

## SAFETY DATA SHEET TAK KILL DENATURANT GP

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name TAK KILL DENATURANT GP  
Product No. B4712

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses DENATURANT

#### 1.3. Details of the supplier of the safety data sheet

Supplier ORAPI APPLIED LIMITED,  
SPRING ROAD,  
SMETHWICK,  
WEST MIDLANDS, B66 1PT, ENGLAND  
Tel: 0121-525-4000  
Fax: 0121-525-4919  
Lee Baughan  
lee.baughan@orapiapplied.com

#### 1.4. Emergency telephone number

0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Met. Corr. 1 - H290
Human health	Skin Corr. 1A - H314; Skin Sens. 1 - H317
Environment	Not classified.

Classification (1999/45/EEC)

C;R35. R43.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Human health

Corrosive to skin and eyes. Corrosive. Prolonged contact causes serious eye and tissue damage. May cause allergic skin disorders in sensitive individuals.

#### 2.2. Label elements

Contains SODIUM HYDROXIDE  
1,2-BENZISOTHIAZOL-3(2H)-ONE

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.

Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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P304+340

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplementary Precautionary Statements

P501

Dispose of contents/container in accordance with local regulations.

## 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

SODIUM HYDROXIDE		10-30%
CAS-No.: 1310-73-2	EC No.: 215-185-5	Registration Number: 01-2119-457892-27-xxxx
Classification (EC 1272/2008) Met. Corr. 1 - H290 Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35	
1,2-BENZISOTHIAZOL-3(2H)-ONE		0 - 0.1%
CAS-No.: 2634-33-5	EC No.: 220-120-9	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400	Classification (67/548/EEC) Xn;R22 R43 Xi;R38,R41 N;R50	
MONOPROPYLENE DIGLYCOL		0 - 0.1%
CAS-No.: 57-55-6	EC No.: 200-338-0	Registration Number: 01-2119456809-23-xxxx
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	
1,2,3-PROPANE TRIOL		0 - 0.1%
CAS-No.: 56-81-5	EC No.: 200-289-5	Registration Number: 01-2119471987-18-XXXX
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

General information

If medical attention is required present a copy of this datasheet to the physician.

Inhalation

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.

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Skin contact

Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

## **4.2. Most important symptoms and effects, both acute and delayed**

Inhalation.

No specific symptoms noted.

Ingestion

Chemical burns. May cause chemical burns in mouth and throat. May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact

Chemical burns. Burning pain and severe corrosive skin damage.

Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing.

## **4.3. Indication of any immediate medical attention and special treatment needed**

No specific first aid measures noted.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing media

The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

Specific hazards

Not relevant

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

Move container from fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours.

Protective equipment for fire-fighters

Wear breathing apparatus

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Wear protective clothing when dealing with spillages.

### **6.2. Environmental precautions**

Prevent products access into water courses. Notify authorities if large amounts of the material have entered a watercourse.

### **6.3. Methods and material for containment and cleaning up**

GENERAL. Stop leak if possible without risk. DO NOT touch spilled material! Inform Authorities if large amounts are involved. COLLECT. Collect with non-combustible absorbent material. Flush with water. Dike for large spills.

### **6.4. Reference to other sections**

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Avoid spilling, skin and eye contact. Wear full protective clothing for prolonged exposure and/or high concentrations. Protect from frost.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep upright. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Keep above the chemical's freezing point to avoid rupturing the container.

Storage Class

Corrosive storage.

### **7.3. Specific end use(s)**

# TAK KILL DENATURANT GP

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
1,2,3-PROPANE TRIOL	WEL		10 mg/m3			
MONOPROPYLENE DIGLYCOL	WEL	150 ppm	10 mg/m3			
SODIUM HYDROXIDE	WEL				2 mg/m3	

WEL = Workplace Exposure Limit.

#### SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL					
Industry	Inhalation.	Long Term	1		mg/m3
Industry	Inhalation.	Short Term	1		mg/m3
Consumer	Inhalation.	Long Term	1		mg/m3

#### TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)

DNEL					
Industry	Inhalation.	Short Term		Systemic Effects	2.5 mg/m3
Industry	Inhalation.	Short Term		Local Effects	2.5 mg/m3
Consumer	Inhalation.	Short Term		Systemic Effects	1.5 mg/m3
Consumer	Inhalation.	Short Term		Local Effects	1.5 mg/m3
Consumer	Oral	Long Term		Systemic Effects	25 mg/kg/day

PNEC			
Freshwater	2.2		mg/l
Marinewater	0.22		mg/l
Intermittent release	1.2		mg/l
STP	43		mg/l
Soil	0.72		mg/kg

#### MONOPROPYLENE DIGLYCOL (CAS: 57-55-6)

DNEL					
Industry	Inhalation.	Long Term	168		mg/m3
Consumer	Inhalation.	Long Term	50		mg/m3

PNEC			
Freshwater	260		mg/l
Marinewater	26		mg/l
STP	20000		mg/l
Sediment (Freshwater)	572		mg/kg
Sediment (Marinewater)	57.2		mg/kg
Soil	50		mg/kg

### 8.2. Exposure controls

Protective equipment



Engineering measures

Provide corrosion-resistant local exhaust ventilation.

Respiratory equipment

Respiratory protection may be required.

Hand protection

Protective gloves must be used if there is a risk of direct contact or splash.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. Use face shield in case of splash risk.

Other Protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated.

Skin protection

Wear apron or protective clothing in case of contact.

# TAK KILL DENATURANT GP

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Clear Liquid
Colour	Brown.
Odour	No characteristic odour.
Solubility	Miscible with water
Initial boiling point and boiling range	125 760mmHg
Relative density	1.28 @ 20 °c
pH-Value, Conc. Solution	14

### 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

In contact with metals generates hydrogen gas, which together with air can form explosive mixtures. The solution is strongly alkaline and reacts with strong acids with heat generation.

### 10.2. Chemical stability

No particular stability concerns.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Avoid contact with acids. May attack light-alloy metals and liberate hydrogen gas.

### 10.5. Incompatible materials

Materials To Avoid

Attacks many metals with the liberation of hydrogen gas which is highly flammable and may form an explosive mixture with air.

### 10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO<sub>2</sub>, NO<sub>x</sub>) are formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information

No information available.

Inhalation

Vapour may irritate respiratory system or lungs.

Ingestion

Causes severe burns. May cause burns in mucous membranes, throat, oesophagus and stomach. Swallowing concentrated chemical may cause severe internal injury.

Skin contact

Causes severe burns. May cause serious chemical burns to the skin. May cause sensitisation by skin contact. Risk of sensitisation or allergic reactions among sensitive individuals.

Eye contact

Causes severe burns. May cause chemical eye burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment.

### 12.1. Toxicity

Acute Fish Toxicity

Not considered toxic to fish.

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## **12.2. Persistence and degradability**

### Degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

## **12.3. Bioaccumulative potential**

### Bioaccumulative potential

No data available on bioaccumulation.

## **12.4. Mobility in soil**

### Mobility:

The product is soluble in water.

## **12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

## **12.6. Other adverse effects**

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements. Contact specialist disposal companies.

## **SECTION 14: TRANSPORT INFORMATION**

### **14.1. UN number**

UN No. (ADR/RID/ADN) 1719

UN No. (IMDG) 1719

### **14.2. UN proper shipping name**

Proper Shipping Name Caustic Alkali Liquid, mixture, n.o.s. (contains Sodium Hydroxide)

### **14.3. Transport hazard class(es)**

ADR/RID/ADN Class Class 8: Corrosive substances.

IMDG Class 8

Transport Labels



### **14.4. Packing group**

ADR/RID/ADN Packing group II

IMDG Packing group II

### **14.5. Environmental hazards**

### **14.6. Special precautions for user**

EMS F-A, S-B

Emergency Action Code 2R

Hazard No. (ADR) 80 Corrosive or slightly corrosive substance.

Tunnel Restriction Code (E)

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## 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### Statutory Instruments

Control of Substances Hazardous to Health. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

##### Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

##### Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

##### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

##### National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ("CDG 2009"), SI 2009 No 1348

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

### SECTION 16: OTHER INFORMATION

##### General information

For further information or advice contact our technical service line during regular office hours on 0121-525-4000.

This safety data sheet has been compiled for the product as supplied, properties and hazards will vary if the product is diluted with water or mixed with any other material.

##### Revision Comments

The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.

Revision Date	06-06-2014
Revision	8
Supersedes date	20-12-2012
Safety Data Sheet Status	Approved.
Date	06-06-2014
Signature	Health and Safety Manager

##### Risk Phrases In Full

R35	Causes severe burns.
R22	Harmful if swallowed.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.

##### Hazard Statements In Full

H318	Causes serious eye damage.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H290	May be corrosive to metals.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.

## TAK KILL DENATURANT GP

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



# Ta Kill Denaturant GP

Product code: B4712

Spray Booth Water Treatment

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## PRODUCT DESCRIPTION

**Tak Kill Denaturant GP** is a liquid preparation consisting of a solution of alkalis formulation for use as an additive for spray booth water treatment. Due to the fact that **Tak Kill Denaturant GP** is a liquid, the disadvantages associated with dissolving powder alternatives are eliminated.

**Tak Kill Denaturant GP** has been designed for the treatment of overspray paint in paint spray booths, particularly of the conventional pump type. Reactive between the overspray paint and the **Tak Kill Denaturant GP** solution in the spray booth will mean less frequent cleaning and the treated paint will float in a convenient denatured non-sticky form for easy removal.

## METHOD OF USE

After the spray booth has been cleaned it should be charged with fresh water and the circulation started. **Tak Kill Denaturant GP** should be added preferably to a turbulent area of the reservoir usually at the rate of 8 – 10 grams/litre (6 – 7½ mls/litre). An initial pH about 11 will be obtained but this will fall on initial reaction with the paint overspray. In general a pH of 9.5 – 10 should be maintained by frequent small additions of **Tak Kill Denaturant GP**.

**Tak Kill Denaturant GP**, because it is a liquid formulation lends itself ideally to use in conjunction with an automatic dosing system which may in turn be linked to an automatic pH or conductivity measurement meter. In addition, the dosing pump may supply either from a bulk tank or from two conveniently placed barrels equipped with contents measurement probes which will automatically switch the pump feed from one barrel to the other when the first barrel is empty and indicate such a change has taken place.

Such systems may be operated almost maintenance free and eliminate the need for operators to man handle **Tak Kill Denaturant GP** our Technical Sales Representative is available to provide more information.

## TESTING AND CONTROL

Where suitable facilities are available more accurate control by titration can be achieved. Pipette 25 ml of the additive solution into a conical flask add an approximately equal volume of distilled water and a few drops of Phenolphthalein indicator. Titrate with N/10 Hydrochloric Acid to first disappearance of the pink colour. For a solution of 10 grams/litres (7.5 mls/litre) **Tak Kill Denaturant GP** the titre should be 18.7 mls of N/10 Hydrochloric Acid.

## SPECIAL STORAGE

**Tak Kill Denaturant GP** should not be stored at temperatures below 0°C as crystallisation of the product may occur.

## HOW SUPPLIED

Ref: B4712-25 **Tak Kill Denaturant GP** is supplied in packs of 25 litres.

**Health and safety information – See separate Material Safety Data Sheet**

**ORAPI APPLIED LIMITED**, Spring Road, Smethwick, West Midlands. B66 1PT  
Tel: +44 (0) 121 525 4000 Fax: +44 (0) 121 525 4919

[www.orapi.com](http://www.orapi.com)

Company Registered No: 06247397 Registered in England & Wales  
Registered Office: Unit 1 Rosse Street, Bradford, West Yorkshire BD8 9AS

## SAFETY DATA SHEET METSTRIP ST3456

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name METSTRIP ST3456  
Product No. C3456

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses COLD IMMERSION PAINT STRIPPER

#### 1.3. Details of the supplier of the safety data sheet

Supplier ORAPI APPLIED LIMITED,  
SPRING ROAD,  
SMETHWICK,  
WEST MIDLANDS, B66 1PT, ENGLAND  
Tel: 0121-525-4000  
Fax: 0121-525-4919  
Lee Baughan  
lee.baughan@orapiapplied.com

#### 1.4. Emergency telephone number

0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC) T;R23/24/25, R39/23/24/25. Carc. Cat. 3;R40. C;R34. Xi;R37.

Human health

Organic solvents may be absorbed into the body by inhalation and ingestion and cause permanent damage to the nervous system, including the brain.

#### 2.2. Label elements

Contains DICHLOROMETHANE  
METHANOL  
HYDROFLUORIC ACID 2.9498%

Labelling



Toxic



Corrosive

Risk Phrases

R34	Causes burns.
R37	Irritating to respiratory system.
R40	Limited evidence of a carcinogenic effect.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Safety Phrases

P16	Can become highly flammable in use.
S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S27	Take off immediately all contaminated clothing.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60	This material and its container must be disposed of as hazardous waste. Restricted to industrial use and to professionals approved in certain EU Member States – verify where use is allowed.

# METSTRIP ST3456

## 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

DICHLOROMETHANE		60-100%
CAS-No.: 75-09-2	EC No.: 200-838-9	
Classification (EC 1272/2008) Carc. 2 - H351	Classification (67/548/EEC) Carc. Cat. 3;R40	
METHANOL		10-30%
CAS-No.: 67-56-1	EC No.: 200-659-6	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370	Classification (67/548/EEC) F;R11 T;R23/24/25,R39/23/24/25	
HYDROFLUORIC ACID ...%		1-5%
CAS-No.: 7664-39-3	EC No.: 231-634-8	
Classification (EC 1272/2008) Acute Tox. 2 - H300 Acute Tox. 1 - H310 Acute Tox. 2 - H330 Skin Corr. 1A - H314	Classification (67/548/EEC) T+;R26/27/28 C;R35	
DODECYL BENZENE SULPHONIC ACID		1-5%
CAS-No.: 85117-49-3	EC No.:	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314	Classification (67/548/EEC) Xn;R22. C;R34.	
Hydrocarbons, C10, aromatics, >1% naphthalene		0.1 - 1%
CAS-No.:	EC No.: 919-284-0	Registration Number: 01-2119463588-24-xxxx
Classification (EC 1272/2008) EUH066 Carc. 2 - H351 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. Carc. Cat. 3;R40. N;R51/53. R66,R67.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

# METSTRIP ST3456

## General information

If medical attention is required present a copy of this datasheet to the physician.

### Inhalation

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

### Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Get medical attention immediately! Give repeated large doses of effervescent calcium gluconate tablets (6 sandocal tablets in total).

### Skin contact

Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention immediately! Apply calcium gluconate gel and massage into affected area, repeat applications until pain from burn is relieved.

### Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse. The medical aid should instil several drops of sterile calcium gluconate solution.

## **4.2. Most important symptoms and effects, both acute and delayed**

### Inhalation.

Severe irritation in nose and throat.

### Ingestion

Chemical burns.

### Skin contact

Chemical burns.

### Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing.

## **4.3. Indication of any immediate medical attention and special treatment needed**

SPECIFIC NOTES FOR FLUORIDE DERIVATIVES: If calcium gluconate gel is available, rub it into affected skin. Massage continuously until pain disappears. DO NOT use this method for treatment of eyes. If ingested give milk or calcium gluconate by mouth.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

Fire or high temperatures create: Hydrogen fluoride (HF). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride (HCl). Phosgene (COCl<sub>2</sub>).

#### Unusual Fire & Explosion Hazards

May develop highly toxic or corrosive fumes if heated. Can become flammable in use.

#### Specific hazards

The product is non-combustible. If heated, corrosive and toxic vapours/gases may be formed. Closed containers can burst violently when heated, due to excess pressure build-up. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.

### **5.3. Advice for firefighters**

#### Special Fire Fighting Procedures

Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. If risk of water pollution occurs, notify appropriate authorities.

Protective equipment for fire-fighters

Wear self-contained breathing apparatus with full face, operated in pressure demand or other positive mode and full protective clothing.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing when dealing with large spillages. Avoid contact with skin, eyes and clothing. Avoid breathing vapours. For large spills wear self contained breathing apparatus.

### **6.2. Environmental precautions**

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body. Do not discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Stop leak if possible without risk. DO NOT touch spilled material! Clean-up personnel should use respiratory and/or liquid contact protection. Collect with absorbent, non-combustible material into suitable containers. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

# METSTRIP ST3456

## 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Read and follow manufacturer's recommendations. Wear full protective clothing for prolonged exposure and/or high concentrations. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

### 7.2. Conditions for safe storage, including any incompatibilities

Will attack glass and most ceramics and most metals. Store in tightly closed original container in a dry, cool and well-ventilated place. Fluids must not be stored in containers of glass or galvanized materials. Keep away from heat, sparks and open flame.

Storage Class

Corrosive storage. Controlled substance storage.

### 7.3. Specific end use(s)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DICHLOROMETHANE		100 ppm(Sk)	350 mg/m3(Sk)	300 ppm(Sk)	1060 mg/m3(Sk)	
HYDROFLUORIC ACID ...%	WEL	1.8 ppm	1.5 mg/m3	3 ppm	2.5 mg/m3	
METHANOL		200 ppm(Sk)	266 mg/m3(Sk)	250 ppm(Sk)	333 mg/m3(Sk)	

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

#### Hydrocarbons, C10, aromatics, >1% naphthalene

DNEL					
Industry	Dermal	Long Term	12.5		mg/kg/day
Industry	Inhalation.	Long Term	151		mg/m3
Consumer	Dermal	Long Term	7.5		mg/kg/day
Consumer	Inhalation.	Long Term	32		mg/m3
Consumer	Oral	Long Term	7.5		mg/kg/day

### 8.2. Exposure controls

Protective equipment



Engineering measures

All handling to take place in well-ventilated area. Provide corrosion-resistant local exhaust ventilation.

Respiratory equipment

Wear mask supplied with: Gas cartridge suitable for organic substances. Gas cartridge (acid gases).

Hand protection

SPECIFIC RECOMMENDATIONS. Use protective gloves made of: Polyvinyl chloride (PVC).

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. Use safety goggles and face shield in case of splash risk.

Other Protection

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Wear appropriate clothing to prevent any possibility of skin contact. Impervious clothing, gloves and minimum 8 inches face shield.

# METSTRIP ST3456

## Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Change work clothing daily if there is any possibility of contamination. Promptly remove any clothing that becomes wet or contaminated. Promptly remove non-impervious clothing that becomes contaminated.

## Skin protection

Wear apron or protective clothing in case of contact.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Clear Liquid
Colour	Colourless.
Odour	Pungent.
Solubility	Immiscible with water
Initial boiling point and boiling range	40 760mmHg
Relative density	1.22 @ 20 °c
Vapour density (air=1)	2.93
pH-Value, Conc. Solution	1

### 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reacts violently with strong alkaline substances. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.

### 10.2. Chemical stability

Stable under normal temperature conditions. Avoid Heat, sparks, flames. Moisture. Contact with alkalis.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Avoid contact with: Strong oxidising agents. Strong alkalis. Reacts with alkalis and generates heat. May attack light-alloy metals and liberate hydrogen gas.

### 10.5. Incompatible materials

#### Materials To Avoid

Strong oxidising substances. Strong alkalis. Contact with red hot surfaces, flames & sparks may generate phosgene/HCl

### 10.6. Hazardous decomposition products

Very toxic gases/vapours/fumes of: Hydrogen fluoride (HF). Phosphoric acid mist. Oxides of: Phosphorus.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Toxicological information

No information available.

#### General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

#### Inhalation

Toxic by inhalation. Toxic: danger of very serious irreversible effects through inhalation. Irritating to respiratory system. Gas or vapour is harmful on prolonged exposure or in high concentrations.

#### Ingestion

Toxic if swallowed. Toxic: danger of very serious irreversible effects if swallowed. Causes burns. May cause burns in mucous membranes, throat, oesophagus and stomach. Swallowing concentrated chemical may cause severe internal injury.

#### Skin contact

Toxic in contact with skin. Toxic: danger of very serious irreversible effects in contact with skin. Causes burns. May cause serious chemical burns to the skin. May be absorbed through injured skin and cause poisoning.

# METSTRIP ST3456

## Eye contact

Causes burns. May cause chemical eye burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

## Health Warnings

Known or suspected carcinogen for humans.

## Specific effects

Limited evidence of a carcinogenic effect.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

### **12.1. Toxicity**

#### Acute Fish Toxicity

Not considered toxic to fish.

### **12.2. Persistence and degradability**

#### Degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### **12.3. Bioaccumulative potential**

#### Bioaccumulative potential

No data available on bioaccumulation.

### **12.4. Mobility in soil**

#### Mobility:

The product is miscible with water. May spread in water systems.

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

### **12.6. Other adverse effects**

## SECTION 13: DISPOSAL CONSIDERATIONS

### **13.1. Waste treatment methods**

Contact specialist disposal companies. Dispose of waste and residues in accordance with local authority requirements.

## SECTION 14: TRANSPORT INFORMATION

### **14.1. UN number**

UN No. (ADR/RID/ADN) 2922

UN No. (IMDG) 2922

### **14.2. UN proper shipping name**

Proper Shipping Name Corrosive Liquid, Toxic, N.O.S. (contains Hydrofluoric Acid and Dichloromethane)

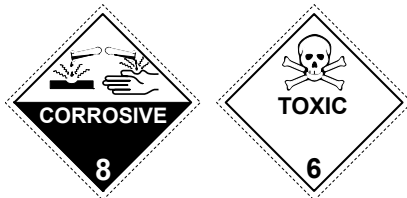
### **14.3. Transport hazard class(es)**

ADR/RID/ADN Class Class 8: Corrosive substances. Class 6.1: Toxic substances.

IMDG Class 8 + 6.1

Transport Labels

## METSTRIP ST3456



### 14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II

### 14.5. Environmental hazards

### 14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2XE
Hazard No. (ADR)	86 Corrosive or slightly corrosive substance, toxic.
Tunnel Restriction Code	(E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

#### Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

#### Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

#### Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

#### EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

#### National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ("CDG 2009"), SI 2009 No 1348 The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

### 15.2. Chemical Safety Assessment

## SECTION 16: OTHER INFORMATION

#### General information

For further information or advice contact our technical service line during regular office hours on 0121-525-4000.

This safety data sheet has been compiled for the product as supplied, properties and hazards will vary if the product is diluted with water or mixed with any other material.

#### Revision Comments

The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.

Revision Date 11-01-2013

Revision 5



## METSTRIP ST3456

Supersedes date 01-04-2011  
Safety Data Sheet Status Approved.  
Date 11-01-2013  
Signature Health and Safety Manager

### Risk Phrases In Full

R34 Causes burns.  
R35 Causes severe burns.  
R22 Harmful if swallowed.  
R65 Harmful: may cause lung damage if swallowed.  
R11 Highly flammable  
R37 Irritating to respiratory system.  
R40 Limited evidence of a carcinogenic effect.  
R66 Repeated exposure may cause skin dryness or cracking.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.  
R67 Vapours may cause drowsiness and dizziness.  
R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

### Hazard Statements In Full

H370 Causes damage to organs <<Organs>>.  
H314 Causes severe skin burns and eye damage.  
H330 Fatal if inhaled.  
H300 Fatal if swallowed.  
H310 Fatal in contact with skin.  
H302 Harmful if swallowed.  
H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H335 May cause respiratory irritation.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
H351 Suspected of causing cancer.  
H331 Toxic if inhaled.  
H301 Toxic if swallowed.  
H311 Toxic in contact with skin.  
H411 Toxic to aquatic life with long lasting effects.

### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# Metstrip ST3456

## Product code C3456

Formerly known as Gramos 420 Product Code 9230

### Cold immersion paint stripper

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#### PRODUCT DESCRIPTION

**Metstrip ST3456** has been developed as a hydrofluoric acid, high strength, activated, cold immersion paint stripper for removal of most powder coatings from steel and aluminium. It may also be used to remove paint build-up from work jigs. A wax seal has been included to minimise evaporation losses.

#### FEATURES AND BENEFITS

Rapid performance on difficult paint systems.  
No cresols or phenol.  
Wax seal to minimise evaporation losses.  
Non-Flammable.  
Low Odour.

#### PROPERTIES

Appearance : Colourless Liquid with a sweet odour and wax seal.  
Specific Gravity : 1.22  
Boiling point : 40deg C  
Solubility : Slightly soluble in water.  
Soluble in organic solvents.

#### TYPICAL OPERATING PARAMETERS

**Metstrip ST3456** is used as supplied in soundly welded mild steel tanks, in well ventilated areas. Components are immersed for the required time until the paint has become detached from the surface. The components are then drained and pressure rinsed to remove the loosened paint film and residues of the stripper, prior to drying and repainting. **Metstrip ST3456** has a slight corrosive action on steel and rather more on aluminium so control over immersion times should always be exercised. Ferrous components will tend to rust fairly rapidly so corrosion preventative can be recommended to help cure this, between stripping and reprocessing.

Maintenance of the levels by regular additions of fresh **Metstrip ST3456** and sludge removal will increase tank life. Avoid any contamination of the tank with water.

#### TESTING AND CONTROL

Not normally required. See Specific Gravity above.

#### EQUIPMENT

**Metstrip ST3456** must be used in soundly welded mild steel tanks which are normally fitted with a fine wire mesh sludge tray for the removal of insoluble contamination. The Stripper should be used in a well ventilated area away from paint stoving ovens or areas involving hot surfaces. Local exhaust extraction is another alternative although the product has its own wax seal to inhibit losses by evaporation. The use of a good pressure rinse is also recommended to remove any residues. Avoid the use of plastics and rubber compounds as these will quickly swell and disintegrate.

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#### GRAMOS APPLIED LTD

Spring Road, Smethwick, West Midlands. B66 1PT.

Tel: 0121 525 4000 / 0121 524 1000 Fax: 0121 525 4950 / 0121 525 4919

E-mail: [info@gramos-applied.com](mailto:info@gramos-applied.com) website: [www.gramos-applied.com](http://www.gramos-applied.com)

All recommendations made and information supplied are to assist customers, they do not infer any legal warranty or liability.

# Metstrip ST3456

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## STORAGE AND HANDLING

**Metstrip ST3456** is a toxic and corrosive liquid and should be handled with extreme care. It should be stored in a cool area away from direct sunlight. Containers should be tightly closed and only opened cautiously. Use gloves, goggles and full impermeable protective clothing at all times. Avoid contact with skin and eyes. Do Not inhale the vapours. Do Not smoke or use near hot surfaces. Only use in well ventilated areas or with local exhaust ventilation.

Dispose of used material in compliance with Environmental Pollution Act (1990).

## HEALTH AND SAFETY

**Metstrip ST3456** contains hydrofluoric acid and solvents which cause the material to be very toxic by inhalation and may cause irreversible changes.

Refer to Health & Safety Data Sheet.

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### GRAMOS APPLIED LTD

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# SAFETY DATA SHEET

## TAKRAG 1010

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name TAKRAG 1010  
Product number D3009

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses IMPREGNATED FABRIC WIPE

#### 1.3. Details of the supplier of the safety data sheet

Supplier ORAPI APPLIED LIMITED,  
SPRING ROAD,  
SMETHWICK,  
WEST MIDLANDS, B66 1PT, ENGLAND  
Tel: 0121-525-4000  
Fax: 0121-525-4919  
lee.baughan@orapiapplied.com

Contact person Lee Baughan

#### 1.4. Emergency telephone number

Emergency telephone 0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Not Classified  
Health hazards Not Classified  
Environmental hazards Not Classified

#### 2.2. Label elements

Hazard statements NC Not Classified

#### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Composition comments The material consists of 50% woven cotton and 50% non-drying resin. The details of the non-drying resin are given above. The highly refined mineral oil contains polycyclic aromatics at levels typically less than 0.01%.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation Not relevant.  
Ingestion Not relevant.  
Skin contact Not required - remove excess from skin after use.  
Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

#### 4.2. Most important symptoms and effects, both acute and delayed

## TAKRAG 1010

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	No specific symptoms known.

### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Notes for the doctor</b>	No specific recommendations.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable extinguishing media** The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards** Combustible, but does not burn readily.

**Hazardous combustion products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

### **5.3. Advice for firefighters**

**Protective actions during firefighting** No specific firefighting precautions known.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid heat, flames and other sources of ignition.

### **6.2. Environmental precautions**

**Environmental precautions** Avoid discharge to the aquatic environment.

### **6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up** Non-hazardous substance. No specific clean-up procedure recommended.

### **6.4. Reference to other sections**

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Usage precautions** No specific recommendations.

### **7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions** Store at moderate temperatures in dry, well ventilated area.

**Storage class** Unspecified storage.

### **7.3. Specific end use(s)**

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

### **8.2. Exposure controls**

## TAKRAG 1010

<b>Appropriate engineering controls</b>	No specific ventilation requirements.
<b>Eye/face protection</b>	Not relevant.
<b>Hand protection</b>	Hand protection not required.
<b>Hygiene measures</b>	Wash hands at the end of each work shift and before eating, smoking and using the toilet.
<b>Respiratory protection</b>	Respiratory protection not required.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Impregnated tacky cotton wipe
<b>Colour</b>	Beige.
<b>Odour</b>	Mild.

#### 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
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#### 10.2. Chemical stability

<b>Stability</b>	Not relevant.
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#### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition.
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#### 10.5. Incompatible materials

<b>Materials to avoid</b>	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
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#### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Heating may generate the following products: Oxides of carbon.
---	--

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

<b>Toxicological effects</b>	No information available.
<b>Inhalation</b>	No specific health hazards known.
<b>Ingestion</b>	No specific health hazards known.
<b>Skin contact</b>	Skin irritation should not occur when used as recommended.
<b>Eye contact</b>	May cause temporary eye irritation.

### SECTION 12: Ecological Information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment. Water Hazard Classification = WGK 0.
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#### 12.1. Toxicity

## TAKRAG 1010

**Toxicity** Not considered toxic to fish.

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** The product is insoluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** No specific disposal method required.

## SECTION 14: Transport information

**Road transport notes** Not classified.

**Sea transport notes** Not classified.

### 14.1. UN number

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

**Transport labels**

### 14.4. Packing group

### 14.5. Environmental hazards

### 14.6. Special precautions for user

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations** Control of Substances Hazardous to Health Regulations 2002 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**Guidance** Workplace Exposure Limits EH40.  
CHIP for everyone HSG228.  
Safety Data Sheets for Substances and Preparations.  
Approved Classification and Labelling Guide (Sixth edition) L131.

**Water hazard classification** WGK 0

## TAKRAG 1010

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.          ADR: European Agreement concerning the International Carriage of dangerous Goods by Road.          IMDG: International Maritime Code for Dangerous Goods.          GHS: Globally Harmonized System of Classification and Labelling of Chemicals.          EINECS: European Inventory of Existing Commercial Chemical Substances.          CAS: Chemical Abstract Service.          DNEL: Derived No-Effect Level.          PNEC: Predicted No-Effect Concentration.          LD50: Lethal dose, 50 percent.          LC50: Lethal concentration, 50 percent.          WEL: Workplace Exposure Limit.          STEL: Short Term Exposure Limit.          TWA: Time Weighted Average.          PBT: Persistent Bioaccumulative Toxic.          vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>General information</b>	<p>For further information or advice contact our technical service line during regular office hours on 0121-524-1000.</p> <p>This safety data sheet has been compiled for the product as supplied, properties and hazards will vary if the product is diluted with water or mixed with any other material.</p>
<b>Revision comments</b>	<p>The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.</p>
<b>Revision date</b>	28/05/2015
<b>Revision</b>	8
<b>Supersedes date</b>	03/02/2015
<b>SDS status</b>	Approved.
<b>Signature</b>	Health and Safety Manager

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



## SAFETY DATA SHEET ULTRATAK

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name                           ULTRATAK  
Product No.                            D3055

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses                        IMPREGNATED FABRIC WIPE

#### 1.3. Details of the supplier of the safety data sheet

Supplier                                 ORAPI APPLIED LIMITED,  
  SPRING ROAD,  
  SMETHWICK,  
  WEST MIDLANDS, B66 1PT, ENGLAND  
  Tel: 0121-525-4000  
  Fax: 0121-525-4919  
  Lee Baughan  
  lee.baughan@orapiapplied.com

#### 1.4. Emergency telephone number

0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Not classified.
Environment	Not classified.

Classification (1999/45/EEC)        Not classified.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### 2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Composition Comments

Material is an impregnated tacky fabric wipe. The material consists of a non-woven fabric impregnated with a non-drying impregnate. The details of the non-drying impregnate are given above.

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

Inhalation

Not relevant

Ingestion

Not relevant

Skin contact

Not required - remove excess from skin after use.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

#### 4.2. Most important symptoms and effects, both acute and delayed

# ULTRATAK

Inhalation.

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin contact

No specific symptoms noted.

Eye contact

Visual disturbances including blurred vision

## **4.3. Indication of any immediate medical attention and special treatment needed**

No specific first aid measures noted.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

Unusual Fire & Explosion Hazards

Combustible, but does not burn readily.

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid heat, flames and other sources of ignition.

### **6.2. Environmental precautions**

Not relevant considering the small amounts used.

### **6.3. Methods and material for containment and cleaning up**

Non-hazardous substance. No specific clean-up procedure noted.

### **6.4. Reference to other sections**

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

No specific usage precautions noted.

### **7.2. Conditions for safe storage, including any incompatibilities**

Store at moderate temperatures in dry, well ventilated area.

Storage Class

Unspecified storage.

### **7.3. Specific end use(s)**

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

### **8.2. Exposure controls**

Engineering measures

No particular ventilation requirements.

Respiratory equipment

Respiratory protection not required.

# ULTRATAK

Hand protection

Hand protection not required.

Eye protection

Not relevant

Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance Impregnated non-woven fabric wipe.

Odour Mild.

### 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Not relevant

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

Materials To Avoid

No incompatible groups noted.

### 10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information

No information available.

General information

No specific health warnings noted.

Inhalation

No specific health warnings noted.

Ingestion

No specific health warnings noted.

Skin contact

No specific health warnings noted.

Eye contact

Visual disturbances including blurred vision

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Not regarded as dangerous for the environment.

### 12.1. Toxicity

# ULTRATAK

Acute Fish Toxicity

Not considered toxic to fish.

## **12.2. Persistence and degradability**

Degradability

The product is slowly degradable.

## **12.3. Bioaccumulative potential**

Bioaccumulative potential

No data available on bioaccumulation.

## **12.4. Mobility in soil**

Mobility:

The product is insoluble in water.

## **12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

## **12.6. Other adverse effects**

## **SECTION 13: DISPOSAL CONSIDERATIONS**

### **13.1. Waste treatment methods**

No specific disposal method required.

## **SECTION 14: TRANSPORT INFORMATION**

Road Transport Notes                      Not Classified

Sea Transport Notes                      Not classified.

### **14.1. UN number**

### **14.2. UN proper shipping name**

### **14.3. Transport hazard class(es)**

### **14.4. Packing group**

### **14.5. Environmental hazards**

### **14.6. Special precautions for user**

### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

## **SECTION 15: REGULATORY INFORMATION**

### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Statutory Instruments

Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

# ULTRATAK

National Regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended) The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 ("CDG 2009"), SI 2009 No 1348

## **15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

### **SECTION 16: OTHER INFORMATION**

Abbreviations and acronyms used in the safety data sheet

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

ADR: European Agreement concerning the International Carriage of dangerous Goods by Road.

IMDG: International Maritime Code for Dangerous Goods.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

EINECS: European Inventory of Existing Commercial Chemical Substances.

CAS: Chemical Abstract Service.

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration.

LD50: Lethal dose, 50 percent.

LC50: Lethal concentration, 50 percent.

WEL: Workplace Exposure Limit.

STEL: Short Term Exposure Limit.

TWA: Time Weighted Average.

PBT: Persistent Bioaccumulative Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

General information

For further information or advice contact our technical service line during regular office hours on 0121-524-1000.

This safety data sheet has been compiled for the product as supplied, properties and hazards will vary if the product is diluted with water or mixed with any other material.

Revision Comments

The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.

Revision Date 03-03-2015

Revision 3

Supersedes date 10-12-2012

Safety Data Sheet Status Approved.

03-03-2015

Signature Health and Safety Manager

Risk Phrases In Full

NC Not classified.

Hazard Statements In Full

#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# SAFETY DATA SHEET

## OVENCOAT WR

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name OVENCOAT WR  
Product number D4530

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses WATER RESISTANT OVEN COATER

#### 1.3. Details of the supplier of the safety data sheet

Supplier ORAPI APPLIED LIMITED,  
SPRING ROAD,  
SMETHWICK,  
WEST MIDLANDS, B66 1PT, ENGLAND  
Tel: 0121-525-4000  
Fax: 0121-525-4919  
lee.baughan@orapiapplied.com

Contact person Lee Baughan

#### 1.4. Emergency telephone number

Emergency telephone 0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Not Classified  
Health hazards Not Classified  
Environmental hazards Not Classified

#### 2.2. Label elements

Hazard statements NC Not Classified

#### 2.3. Other hazards

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Composition comments This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information** If medical attention is required present a copy of this datasheet to the physician.

**Inhalation** If irritation results, discontinue operation and enter fresh air. Seek medical opinion if symptoms persist.

**Ingestion** Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available. Do not induce vomiting. Contact physician if larger quantity has been consumed.

## OVENCOAT WR

<b>Skin contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

### **4.2. Most important symptoms and effects, both acute and delayed**

<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	Visual disturbances, including blurred vision.

### **4.3. Indication of any immediate medical attention and special treatment needed**

<b>Notes for the doctor</b>	No specific recommendations.
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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.
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### **5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	Not relevant. No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon. Oxides of nitrogen.

### **5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
<b>Special protective equipment for firefighters</b>	Respiratory protection not required.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. In case of spills, beware of slippery floors and surfaces.
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### **6.2. Environmental precautions**

<b>Environmental precautions</b>	Avoid discharge to the aquatic environment.
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### **6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Contain spillage with sand, earth or other suitable non-combustible material.
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### **6.4. Reference to other sections**

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

<b>Usage precautions</b>	Read and follow manufacturer's recommendations. Avoid spilling. Avoid contact with skin and eyes. Avoid freezing.
--------------------------	---

### **7.2. Conditions for safe storage, including any incompatibilities**

## OVENCOAT WR

**Storage precautions** Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep above the chemical's freezing point.

**Storage class** Chemical storage.

### 7.3. Specific end use(s)

#### SECTION 8: Exposure Controls/personal protection

##### 8.1. Control parameters

##### 8.2. Exposure controls

##### Protective equipment



**Appropriate engineering controls** All handling should only take place in well-ventilated areas.

**Eye/face protection** Wear chemical splash goggles.

**Hand protection** No specific hand protection recommended. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

**Hygiene measures** Wash hands at the end of each work shift and before eating, smoking and using the toilet.

**Respiratory protection** Respiratory protection not required.

#### SECTION 9: Physical and Chemical Properties

##### 9.1. Information on basic physical and chemical properties

**Appearance** Creamy liquid. Emulsion.

**Colour** White.

**Odour** No characteristic odour.

**pH** pH (concentrated solution): 8 - 9

**Initial boiling point and range** 100°C @ 760mmHg

**Relative density** 1.00 @ @ 20°C

##### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 0 g/litre.

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

##### 10.2. Chemical stability

**Stability** No particular stability concerns.

##### 10.3. Possibility of hazardous reactions

##### 10.4. Conditions to avoid

**Conditions to avoid** Not known.

##### 10.5. Incompatible materials



## OVENCOAT WR

**Materials to avoid** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Oxides of carbon. Oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicological effects** No information available.

**Inhalation** No specific health hazards known.

**Ingestion** May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact** Skin irritation should not occur when used as recommended.

**Eye contact** May cause temporary eye irritation.

## SECTION 12: Ecological Information

**Ecotoxicity** Not regarded as dangerous for the environment.

### 12.1. Toxicity

**Toxicity** Not considered toxic to fish.

### 12.2. Persistence and degradability

**Persistence and degradability** The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product is not bioaccumulating.

### 12.4. Mobility in soil

**Mobility** The product is miscible with water and may spread in water systems.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.1. UN number

Not applicable.

## OVENCOAT WR

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### **Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **National regulations**

Control of Substances Hazardous to Health Regulations 2002 (as amended).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment  
Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

#### **EU legislation**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18  
December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of  
Chemicals (REACH) (as amended).  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16  
December 2008 on classification, labelling and packaging of substances and mixtures (as  
amended).

#### **Guidance**

Workplace Exposure Limits EH40.  
Safety Data Sheets for Substances and Preparations.  
Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

## OVENCOAT WR

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>RID: Regulation Concerning the International Transport of Dangerous Goods by Rail. ADR: European Agreement concerning the International Carriage of dangerous Goods by Road. IMDG: International Maritime Code for Dangerous Goods. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. EINECS: European Inventory of Existing Commercial Chemical Substances. CAS: Chemical Abstract Service. DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. LD50: Lethal dose, 50 percent. LC50: Lethal concentration, 50 percent. WEL: Workplace Exposure Limit. STEL: Short Term Exposure Limit. TWA: Time Weighted Average. PBT: Persistent Bioaccumulative Toxic. vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>General information</b>	<p>For further information or advice contact our technical service line during regular office hours on 0121-524-1000.</p> <p>This safety data sheet has been compiled for the product as supplied, properties and hazards will vary if the product is diluted with water or mixed with any other material.</p>
<b>Revision comments</b>	<p>The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.</p>
<b>Revision date</b>	29/05/2015
<b>Revision</b>	9
<b>Supersedes date</b>	26/02/2015
<b>SDS status</b>	Approved.
<b>Signature</b>	Health and Safety Manager

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# SAFETY DATA SHEET

## PROPEEL

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name PROPEEL  
Product number G4602

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses PEELABLE COATING

#### 1.3. Details of the supplier of the safety data sheet

Supplier ORAPI APPLIED LIMITED,  
SPRING ROAD,  
SMETHWICK,  
WEST MIDLANDS, B66 1PT, ENGLAND  
Tel: 0121-525-4000  
Fax: 0121-525-4919  
lee.baughan@orapiapplied.com

Contact person Lee Baughan

#### 1.4. Emergency telephone number

Emergency telephone 0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards Flam. Liq. 2 - H225  
Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373  
Asp. Tox. 1 - H304  
Environmental hazards Not Classified

##### Human health

The product is irritating to eyes and skin. Contains a substance/a group of substances which may damage the unborn child. Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.

##### Physicochemical

The product is highly flammable. Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.

#### 2.2. Label elements

##### Pictogram



Signal word

Danger

## PROPEEL

<b>Hazard statements</b>	H225 Highly flammable liquid and vapour. H373 May cause damage to organs through prolonged or repeated exposure. H336 May cause drowsiness or dizziness. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H319 Causes serious eye irritation. H361d Suspected of damaging the unborn child.
<b>Precautionary statements</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.
<b>Contains</b>	TOLUENE, ACETONE, MINERAL OIL
<b>Supplementary precautionary statements</b>	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P260 Do not breathe vapour/spray. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P302+P352 IF ON SKIN: Wash with plenty of water. P314 Get medical advice/attention if you feel unwell. P331 Do NOT induce vomiting. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations.

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**PROPEEL**

<b>TOLUENE</b> <span style="float: right;"><b>30-60%</b></span>		
CAS number: 108-88-3	EC number: 203-625-9	REACH registration number: 01-2119471310-51-xxxx
<b>Classification</b> Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 Repr. 2 - H361d Asp. Tox. 1 - H304 STOT SE 3 - H336 STOT RE 2 - H373	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67	
<b>ACETONE</b> <span style="float: right;"><b>30-60%</b></span>		
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-2119471330-49-XXXX
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 Xi;R36 R66 R67	
<b>DI-ISONONYL PHTHALATE</b> <span style="float: right;"><b>5-10%</b></span>		
CAS number: 28553-12-0	EC number: 249-079-5	REACH registration number: 01-2119430798-28-xxxx
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>TITANIUM DIOXIDE</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>MINERAL OIL</b> <span style="float: right;"><b>1-5%</b></span>		
CAS number: 64741-88-4	EC number: 265-090-8	
<b>Classification</b> Asp. Tox. 1 - H304	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### General information

If medical attention is required present a copy of this datasheet to the physician.

###### Inhalation

Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

## PROPEEL

<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Do not induce vomiting. DO NOT induce vomiting. Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical.
<b>Skin contact</b>	Remove affected person from source of contamination. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Vapours may cause headache, fatigue, dizziness and nausea.
<b>Ingestion</b>	May cause nausea, headache, dizziness and intoxication. Congestion of the lungs may occur, producing severe shortness of breath.
<b>Skin contact</b>	Skin irritation. Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	Irritation of eyes and mucous membranes.

### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Alcohol-resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemicals, sand, dolomite etc.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. The product is highly flammable. May explode when heated or when exposed to flames or sparks. May form explosive or toxic mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Control run-off water by containing and keeping it out of sewers and watercourses. Cool containers exposed to flames with water until well after the fire is out. Move containers from fire area if it can be done without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Use water spray to reduce vapours. If risk of water pollution occurs, notify appropriate authorities.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Avoid inhalation of vapours and contact with skin and eyes. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage.
-----------------------------	---

## PROPEEL

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge to the aquatic environment. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Sewers designed to preclude formation of explosive concentrations of vapour may be permitted. Absorb small quantities with paper towels and evaporate in a safe place. Absorb spillage with non-combustible, absorbent material. Flush contaminated area with plenty of water. Contain spillage with sand, earth or other suitable non-combustible material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

### 6.4. Reference to other sections

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Avoid contact with skin and eyes. Avoid contact with the following materials: Acids. Moisture. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure.

##### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Earth container and transfer equipment to eliminate sparks from static electricity.

**Storage class** Flammable liquid storage.

##### 7.3. Specific end use(s)

#### SECTION 8: Exposure Controls/personal protection

##### 8.1. Control parameters

###### Occupational exposure limits

###### TOLUENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 191 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m<sup>3</sup>

Sk

###### ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m<sup>3</sup>

###### DI-ISONONYL PHTHALATE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL

###### TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust



## PROPEEL

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

### TOLUENE (CAS: 108-88-3)

<b>DNEL</b>	<p>Consumer - Oral; Long term systemic effects: 8.13 mg/kg/day</p> <p>Industry - Dermal; Long term systemic effects: 384 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term local effects: 226 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Short term systemic effects: 226 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term systemic effects: 384 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Short term local effects: 384 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term local effects: 192 mg/m<sup>3</sup></p> <p>Consumer - Inhalation; Long term systemic effects: 56.5 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term systemic effects: 192 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>- Fresh water; 0.68 mg/l</p> <p>- Sediment (Freshwater); 16.39 mg/l</p> <p>- STP; 13.61 mg/l</p> <p>- Soil; 2.89 mg/kg</p> <p>- Marine water; 0.68 mg/l</p> <p>- Sediment (Marinewater); 16.39 mg/kg</p>

### ACETONE (CAS: 67-64-1)

<b>DNEL</b>	<p>Industry - Dermal; Long term systemic effects: 186 mg/kg/day</p> <p>Industry - Inhalation; Short term local effects: 2420 mg/m<sup>3</sup></p> <p>Industry - Inhalation; Long term systemic effects: 1210 mg/m<sup>3</sup></p> <p>Consumer - Oral; Long term : 62 mg/kg/day</p> <p>Consumer - Dermal; Long term : 62 mg/kg/day</p> <p>Consumer - Inhalation; Long term : 200 mg/m<sup>3</sup></p>
<b>PNEC</b>	<p>- Fresh water; 10.6 mg/l</p> <p>- Marine water; 1.06 mg/l</p> <p>- Sediment (Freshwater); 30.4 mg/kg</p> <p>- Sediment (Marinewater); 3.04 mg/kg</p> <p>- STP; 29.5 mg/l</p> <p>- Soil; 0.112 mg/kg</p>

## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

### Eye/face protection

Wear chemical splash goggles.

### Hand protection

Wear protective gloves made of the following material: Butyl rubber. Polyvinyl alcohol (PVA). Polytetrafluoroethylene (PTFE, Teflon).

### Other skin and body protection

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station and safety shower. Wear appropriate clothing to prevent repeated or prolonged skin contact.

## PROPEEL

**Hygiene measures** Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous properties of the product.

**Respiratory protection** Wear a full facepiece respirator fitted with the following cartridge: Organic vapour filter.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

**Appearance** Liquid. Mobile liquid.

**Colour** White.

**Odour** Solvent.

**Initial boiling point and range** 56 - 110 @°C @ 760mmHg

**Flash point** - 17°C CC (Closed cup).

**Upper/lower flammability or explosive limits** : 1.0

**Vapour density** > 1.0

**Relative density** 0.92 @ @ 20°C

**Solubility(ies)** Slightly soluble in water.

#### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 677 g/litre.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended. Avoid the following conditions: Heat, sparks, flames.

#### 10.3. Possibility of hazardous reactions

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition. Avoid excessive heat for prolonged periods of time. Avoid contact with strong oxidising agents.

#### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents. Strong reducing agents.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Heating may generate the following products: Oxides of carbon.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects** No information available.

## PROPEEL

<b>General information</b>	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
<b>Inhalation</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. Gas or vapour in high concentrations may irritate the respiratory system. Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. Pneumonia may be the result if vomited material containing solvents reaches the lungs.
<b>Skin contact</b>	Irritating to skin. Prolonged or repeated exposure may cause severe irritation. May be absorbed through the skin.
<b>Eye contact</b>	Irritating to eyes. Repeated exposure may cause chronic eye irritation.
<b>Acute and chronic health hazards</b>	Contains a substance/a group of substances which may damage the unborn child.

### SECTION 12: Ecological Information

<b>Ecotoxicity</b>	Not regarded as dangerous for the environment.
<b><u>12.1. Toxicity</u></b>	
<b>Toxicity</b>	Not considered toxic to fish.
<b><u>12.2. Persistence and degradability</u></b>	
<b>Persistence and degradability</b>	The product is not readily biodegradable.
<b><u>12.3. Bioaccumulative potential</u></b>	
<b>Bioaccumulative potential</b>	The product is not bioaccumulating.
<b><u>12.4. Mobility in soil</u></b>	
<b>Mobility</b>	The product is insoluble in water and will spread on the water surface. The product contains organic solvents which will evaporate easily from all surfaces.
<b><u>12.5. Results of PBT and vPvB assessment</u></b>	
<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.

### **12.6. Other adverse effects**

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

<b>Disposal methods</b>	Dispose of waste via a licensed waste disposal contractor. Confirm disposal procedures with environmental engineer and local regulations.
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### SECTION 14: Transport information

#### **14.1. UN number**

<b>UN No. (ADR/RID)</b>	1263
<b>UN No. (IMDG)</b>	1263
<b>UN No. (ICAO)</b>	1263
<b>UN No. (ADN)</b>	1263

## PROPEEL

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** Paint Related Materials (contains Toluene and Acetone)

**Proper shipping name (IMDG)** Paint Related Materials (contains Toluene and Acetone)

**Proper shipping name (ICAO)** Paint Related Materials (contains Toluene and Acetone)

**Proper shipping name (ADN)** Paint Related Materials (contains Toluene and Acetone)

### 14.3. Transport hazard class(es)

**ADR/RID class** 3

**ADR/RID classification code** F1

**ADR/RID label** 3

**IMDG class** 3

**ICAO class/division** 3

**ADN class** 3

#### Transport labels



### 14.4. Packing group

**ADR/RID packing group** II

**IMDG packing group** II

**ADN packing group** II

**ICAO packing group** II

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

**EmS** F-E, S-E

**ADR transport category** 2

**Emergency Action Code** •3YE

**Hazard Identification Number (ADR/RID)** 33

**Tunnel restriction code** (D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## PROPEEL

<b>National regulations</b>	Control of Substances Hazardous to Health Regulations 2002 (as amended). The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations. Approved Classification and Labelling Guide (Sixth edition) L131.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	RID: Regulation Concerning the International Transport of Dangerous Goods by Rail. ADR: European Agreement concerning the International Carriage of dangerous Goods by Road. IMDG: International Maritime Code for Dangerous Goods. GHS: Globally Harmonized System of Classification and Labelling of Chemicals. EINECS: European Inventory of Existing Commercial Chemical Substances. CAS: Chemical Abstract Service. DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. LD50: Lethal dose, 50 percent. LC50: Lethal concentration, 50 percent. WEL: Workplace Exposure Limit. STEL: Short Term Exposure Limit. TWA: Time Weighted Average. PBT: Persistent Bioaccumulative Toxic. vPvB: Very Persistent and Very Bioaccumulative.
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**General information** For further information or advice contact our technical service line during regular office hours on 0121-524-1000.

This safety data sheet has been compiled for the product as supplied, properties and hazards will vary if the product is diluted with water or mixed with any other material.

**Revision comments** The information contained herein is based on known available data believed to be reliable but does not constitute the users own assessment of the work place risk as required by other Health and Safety Legislation.

**Revision date** 29/05/2015

**Revision** 10

**Supersedes date** 18/03/2015

**SDS status** Approved.

**Signature** Health and Safety Manager

## PROPEEL

### Risk phrases in full

R11 Highly flammable.  
R36 Irritating to eyes.  
R38 Irritating to skin.  
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.  
R63 Possible risk of harm to the unborn child.  
R65 Harmful: may cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H361d Suspected of damaging the unborn child.  
H373 May cause damage to organs through prolonged or repeated exposure.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# Pro Peel

## Product code G4602

Formerly known as Gramos Product Code 6112.

### Solvent based peelable coating

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#### **PRODUCT DESCRIPTION**

**PROPEEL** is a white pigmented temporary protective coating designed for application to all smooth, clean, metal spray booth walls in order to provide an easy method of booth maintenance

The dried film is readily peelable and enables even heavy overspray deposits to be quickly and cleanly removed.

Exposed areas can then be touched in or the entire area re-sprayed as necessary. By providing a white, light reflective surface better working conditions are obtained making for a consistent achievement of high quality work.

#### **FEATURES & BENEFITS**

- \* Strong easily peelable film.
- \* Enables heavy overspray to be removed quickly and cleanly.
- \* Light reflective surface for better working conditions.
- \* Reduces maintenance time.
- \* Heavily contaminated areas may be cut and painted in.

#### **DIRECTIONS FOR USE**

Use as supplied, stirring thoroughly before use to disperse any settled pigment.

Apply by conventional spraying techniques using normal pressure spraying equipment, pot pressure 20psi (1-2 bar), air pressure 40-60psi (3-4 bar); and using a 70 thou (1.78mm) tip, with appropriate air cap and needle.

Apply a double pass, wet on wet, to give a dense white film. Do not dry spray as this may lead to some film shrinkage and poor peelability.

Do not use suction feed guns.

Do not apply to painted or plastic surfaces.

After use clean all equipment with 6118 THINNERS

#### **COVERAGE**

2-3 square metres/litre, at 2-3thou (0.05-0.076mm) dry film thickness.

#### **SPECIAL STORAGE**

Store in a cool place in compliance with Petroleum Consolidation Act 1928 and Amendments, or Local/National Highly Flammable Liquids Regulations.

Protect from freezing.

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#### **GRAMOS APPLIED LTD**

Spring Road, Smethwick, West Midlands. B66 1PT.

Tel: 0121 525 4000 / 0121 524 1000 Fax: 0121 525 4950 / 0121 525 4919

E-mail: [info@gramos-applied.com](mailto:info@gramos-applied.com) website: [www.gramos-applied.com](http://www.gramos-applied.com)

All recommendations made and information supplied are to assist customers, they do not infer any legal warranty or liability.

# **Pro Peel**

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## **WARNING**

Solvent based peelable coatings are not generally suitable for application to painted, plastic, or lacquered surfaces, and **MUST** be carefully patch tested before use to ensure no surface attack occurs and the product remains easily peelable after normal usage conditions.

Any use of these products on solvent sensitive surfaces where natural evaporation of the solvent may be retarded can lead to aggravated solvent attack, for instance, seepage under a mask.

**HEALTH AND SAFETY INFORMATION – SEE SEPARATE HEALTH AND SAFETY SHEET**

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All recommendations made and information supplied are to assist customers, they do not infer any legal warranty or liability.  
Printed in the UK. 11/2003 Issue No. 1 Page 2 of 2



# TECHNICAL DATA SHEET

## PRONATUR ORANGE SOLVENT

### Biodegradable Degreasing & Cleaning Solvent

#### Description

**Pronatur Orange Solvent** is a specially formulated blend of degreasing solvents and citrus based cleaning agents designed for use in industrial applications. The product offers superior penetration and cleaning of difficult to remove contaminants, mineral oils, greases, tar/bitumen, semi-cured adhesives and sealants, uncured paints/varnishes and oil based printing inks.

**Pronatur Orange Solvent** is fully biodegradable and not miscible, but can be washed off with water therefore making it ideal for use where oil / water separation equipment is employed to minimise waste disposal. The products high flash point facilitates use in recirculating parts washers and ultrasonic baths where fluid loss through evaporation will be kept to a minimum.

**Pronatur Orange Solvent** is supplied ready for use in both liquid and Co<sub>2</sub> propelled aerosol formats.

#### Outstanding Features

- Biodegradable
- Non Flammable
- Low residue
- Contains no chlorinated solvents
- Water rinse able

#### Applications

- Removal of
  - Oils & greases
  - Bitumen and carbon residues
  - Waxes
  - Semi-cured
    - Adhesives
    - Sealants
    - Oil based paints
    - Printing inks
- Dip tanks
- Parts washers
- Ultrasonic baths

# TECHNICAL DATA

## PRONATUR ORANGE SOLVENT

### Biodegradable Degreasing & Cleaning Solvent

#### Directions for use

**Pronatur Orange Solvent** is supplied ready for use and can be applied manually, brush, cloth, sponge etc or by using suitable application equipment e.g. spray systems, dip tanks, recirculating parts washers etc. Allow contact time for the product to penetrate the contaminant before removal.

**Pronatur Orange Solvent** is water rinseable but not water emulsifiable. This allows for the product and contaminant to be washed off leaving a clean residue free surface and for phase separation to occur where an interceptor tank is employed to minimise waste disposal.

**Note:** Compatibility testing is advised prior to use where prolonged contact with plastics or rubbers is envisaged.

#### Typical Characteristics

Appearance	:	Pale yellow liquid
Odour	:	Oranges
Specific gravity	:	0.8
pH	:	7.0
Dielectric strength	:	50kv
Flash point	:	69°C
Auto ignition temperature	:	>230°C
Evaporation rate (water=1)	:	0.06
Solubility in water	:	Insoluble

#### **Approved to:**

**BS4870 part 2 for degreasing aluminium prior to welding**

**Rolls Royce CSS255 (Non-Halogenated Organic Solvent Cleaners)**

**OCNS listed (Offshore Chemical Notification Scheme) for products suitable for use offshore**

#### Health & Safety

Further Technical Data and Health & Safety (COSHH, MSDS) is available from the Technical Department Orapi Limited, Unit 1, Rosse Street, Bradford, BD8 9AS, West Yorkshire, England.

Telephone +44 (0) 1274 822000

Fax +44 (0) 1274 822002

The information contained in this bulletin is based on our experience and reports from customers.

Where stated the figures listed are typical of normal production only.

There are many factors outside our control, which can affect the products performance for which reason the information supplied is given without responsibility.

## SAFETY DATA SHEET PRONATUR ORANGE SOLVENT

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product Name                                    PRONATUR ORANGE SOLVENT  
Product No.                                     SLO128, SLO132, SLO136, SLO140, SLO119, SLO120

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses                                Cleaning agent

#### 1.3. Details of the supplier of the safety data sheet

Supplier:                                        ORAPI APPLIED LIMITED,  
    SPRING ROAD,  
    SMETHWICK,  
    WEST MIDLANDS, B66 1PT, ENGLAND  
    Tel: 0121-525-4000  
    Fax: 0121-525-4919  
    Lee Baughan  
    lee.baughan@orapiapplied.com

#### 1.4. Emergency telephone number

0121 525 4000 (09:00 - 17:00 hrs)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (1999/45/EEC)                Not classified.

#### 2.2. Label elements

Risk Phrases		
	NC	Not classified.
Safety Phrases		
	NC	Not classified.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

Inhalation.

Remove victim immediately from source of exposure. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.

Skin Contact

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

Eye Contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart.

#### 4.2. Most important symptoms and effects, both acute and delayed

Inhalation.

No specific symptoms noted.

Ingestion

No specific symptoms noted.

Skin Contact

No specific symptoms noted.

# PRONATUR ORANGE SOLVENT

Eye Contact

Visual disturbances including blurred vision

## **4.3. Indication of any immediate medical attention and special treatment needed**

No specific first aid measures noted.

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

### **5.2. Special hazards arising from the substance or mixture**

Hazardous Combustion Products

None under normal conditions. During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

### **5.3. Advice for firefighters**

Special Fire Fighting Procedures

Move container from fire area if it can be done without risk. Containers close to fire should be removed or cooled with water.

Protective Measures In Fire

Wear full protective clothing.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground.

### **6.3. Methods and material for containment and cleaning up**

Absorb in vermiculite, dry sand or earth and place into containers.

### **6.4. Reference to other sections**

## **SECTION 7: HANDLING AND STORAGE**

### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapours and spray mists. Provide good ventilation.

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep in original container. Avoid contact with oxidising agents. Store in a cool and well-ventilated place.

Storage Class

Chemical storage.

### **7.3. Specific end use(s)**

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

Ingredient Comments

No exposure limits noted for ingredient(s).

### **8.2. Exposure controls**

Protective Equipment



Respiratory Equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

# PRONATUR ORANGE SOLVENT

## Hand Protection

For prolonged or repeated skin contact use suitable protective gloves.

## Eye Protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

## Hygiene Measures

Wash at the end of each work shift and before eating, smoking and using the toilet.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Light (or pale) Yellow
Odour	Orange.
Solubility	Immiscible with water
Relative Density	0.8
Vapour Density (Air=1)	4.5
Evaporation Rate	0.06
pH-Value, Conc. Solution	7
Flash Point (°C)	69°c
Flammability Limit - Lower(%)	0.6
Flammability Limit - Upper(%)	0.7

### 9.2. Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

No particular stability concerns. Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

### 10.4. Conditions to avoid

Avoid contact with strong oxidisers. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

### 10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Acids, oxidising.

### 10.6. Hazardous decomposition products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Inhalation

Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

Ingestion.

No harmful effects expected in amounts likely to be ingested by accident.

Skin Contact

May cause defatting of the skin, but is not an irritant. Prolonged contact may cause dryness of the skin.

Eye Contact

Spray and vapour in the eyes may cause irritation and smarting.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Not regarded as dangerous for the environment.

### 12.1. Toxicity

### 12.2. Persistence and degradability

# PRONATUR ORANGE SOLVENT

## 12.3. Bioaccumulative potential

## 12.4. Mobility in soil

## 12.5. Results of PBT and vPvB assessment

## 12.6. Other adverse effects

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Contact specialist disposal companies.

### SECTION 14: TRANSPORT INFORMATION

General	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
Road Transport Notes	Not Classified
Sea Transport Notes	Not classified.

#### 14.1. UN number

#### 14.2 UN Proper shipping name

#### 14.3 Transport hazard class(es)

#### 14.4. Packing group

#### 14.5. Environmental hazards

#### 14.6. Special precautions for user

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### SECTION 15: REGULATORY INFORMATION

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

EU Legislation

Dangerous Preparations Directive 1999/45/EC.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Control of Substances Hazardous to Health Regulations 2002 (as amended)

#### 15.2. Chemical Safety Assessment

### SECTION 16: OTHER INFORMATION

Revision Date	14-06-2011
Revision	3
Supersedes Date	29-03-2010
Safety Data Sheet Status	Approved. 14-06-2011
Signature	Health and Safety Manager
Risk Phrases In Full	

# PRONATUR ORANGE SOLVENT

## Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

# Takrags

## Impregnated cleaning wipes

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### **For a perfect Paint Finish at an economical cost**

With one quick wipe, **Takrags** ensure completely dust and fluff free surface. A surface ready for spraying, lettering and countless other jobs involving the application of paints, printing inks, lacquers, varnishes etc. Simply by lightly wiping down the surface area involved all specks of dust and dirt are removed quickly and effectively trapped within the **Takrag**.

Economical too - both sides of each and every tacky surface trap and absorb whilst remaining tacky and stable.

The impregnants that make **Takrags** tacky are manufactured solely by us for our own use. They are to our own formulae and are chemically compatible with all modern paint finishes, non-acidic, non-drying, non-staining, not subject to spontaneous combustion and uniform in tack and quality.

Gramos Applied Limited, maker of **Takrags**, is the foremost manufacturer in Europe and is supplying **Takrags** to most European car manufacturers and to assembly plants throughout the world.

Dust, fluff and grit particles are a major source of paint defects causing nibs, rough finishes and centres of weakness and corrosion.

Long experience has shown that **Takrags** are the only safe and economical method ensuring completely dust-free surfaces onto which plant paint can be applied.

As well as being indispensable in vehicle body shops and spray shops generally **Takrags** have many beneficial applications in most industrial production finishing processes.

**Takrags** have many non-industrial applications too.

Increasing numbers of decorators and model makers are using **Takrags** to help get the perfect finish they strive for. DIY enthusiasts everywhere are now using **Takrags** to improve the finish on their jobs.

The **Takrag** range of products are constructed from an open weave impregnated fabric which combines high dust absorbency with strength and wear resistance.

For maximum performance and highest quality requirements use the latest continuous filament product range.

The soft tack absorbent impregnant ensures maximum pick up and holding power. All dust and dirt particles likely to cause blemishes are firmly held and none can be transferred or shaken loose to become airborne and settle elsewhere.

### **HEALTH AND SAFETY INFORMATION – SEE SEPARATE HEALTH AND SAFETY SHEET**

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