

# SAFETY DATA SHEET

## FRIGILENE REDUCER

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

#### 1.1. Product identifier

**Product name** FRIGILENE REDUCER  
**Product No.** 165598, 65611, SDS

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

**Identified uses** A preparation intended for use in industrial surface finishing. Solvent.

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

**Supplier** MacDermid Performance Solutions UK Ltd  
198 Golden Hillock Road  
Birmingham  
B11 2PN  
Tel: +44 (0) 121 606 8100  
**Contact Person** sdsuk@macdermid.com

#### 1.4. Emergency telephone number

24 Hour Emergency Incident Number +44 (0)1235 239 670 - NCEC (National Chemical Emergency Centre)

### SECTION 2: HAZARDS IDENTIFICATION

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

##### Classification (EC 1272/2008)

Physical and Chemical Hazards Flam. Liq. 3 - H226  
Human health Acute Tox. 4 - H312; Acute Tox. 4 - H332; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; STOT SE 3 - H336, H335; STOT RE 2 - H373; Asp. Tox. 1 - H304  
Environment Not classified.

##### Classification (1999/45/EEC)

Xn; R20/21, R48/20, R65. Xi; R36/37/38. R10.

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

#### 2.2. Label elements

**Contains** Xylene

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



**Signal Word**

Danger

##### Hazard Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

##### Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe vapour/spray.

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P280	Wear protective clothing, gloves, eye and face protection.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
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.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P315	Get immediate medical advice/attention.
P337+313	If eye irritation persists: Get medical advice/attention.

## Supplementary Precautionary Statements

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.
P332+313	If skin irritation occurs: Get medical advice/attention.
P370+378	In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P501a	Dispose of contents/container in accordance with local, regional, national and/or international regulations

## 2.3. Other hazards

This product does not contain any PBT or vPvB substances.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

<b>Xylene</b>		<b>60 - &lt; 75%</b>
<b>CAS-No.: 1330-20-7</b>	<b>EC No.: 215-535-7</b>	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304	Classification (67/548/EEC) Xn;R20/21,R65,R48/20. Xi;R36/37/38. R10.	
<b>n-Butyl acetate</b>		<b>25 - &lt;40%</b>
<b>CAS-No.: 123-86-4</b>	<b>EC No.: 204-658-1</b>	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT SE 3 - H336	Classification (67/548/EEC) R10 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

#### General information

Remove affected person from source of contamination. CAUTION! First aid personnel must be aware of own risk during rescue! NOTE! Keep affected person away from heat, sparks and flames! NOTE! Effects may be delayed. Keep affected person under observation.

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## Inhalation

Move the exposed person to fresh air at once. Rinse nose and mouth with water. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

## Ingestion

Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Rinse nose, mouth and throat with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Get medical attention.

## Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

## Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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

### General information

See section 11 for additional information on health hazards. Prolonged exposure to the preparation may cause serious health effects. Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

### Inhalation

Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing. Spray mists irritate the respiratory system, and cause coughing and difficulties in breathing. Vapours may cause drowsiness and dizziness. Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Risk of chemical pneumonia after aspiration.

### Ingestion

May irritate and cause stomach pain, vomiting and diarrhoea. May cause discomfort if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

### Skin contact

Irritating to skin. Prolonged contact may cause redness, irritation and dry skin. Defatting, drying and cracking of skin. May be absorbed through the skin.

### Eye contact

Irritation of eyes and mucous membranes. Irritation, burning, lachrymation, blurred vision after liquid splash. Spray and vapour in the eyes may cause irritation and smarting.

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

No specific first aid measures noted.

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## SECTION 5: FIREFIGHTING MEASURES

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### 5.1. Extinguishing media

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media appropriate for surrounding materials.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

#### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### Unusual Fire & Explosion Hazards

Beware, risk of formation of toxic and corrosive gases. FLAMMABLE. Heat may cause the containers to explode. Vapours are heavier than air and may spread near ground to sources of ignition. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

#### Specific hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

Avoid breathing fire vapours. Keep up-wind to avoid fumes. Be aware of danger of explosion. Ventilate closed spaces before entering them. Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control. If risk of water pollution occurs, notify appropriate authorities.

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## Protective equipment for fire-fighters

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

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours/spray and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. In case of spills, beware of slippery floors and surfaces.

### 6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Do not discharge into drains, water courses or onto the ground. Avoid release to the environment. Do not allow ANY environmental contamination.

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

Wear necessary protective equipment. Stop leak if possible without risk. To prevent release, place container with damaged side up. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb spillage with non-combustible, absorbent material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Runoff or release to sewer, waterway or ground is forbidden. Inform Authorities if large amounts are involved.

### 6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in section 13.

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## SECTION 7: HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

Do not handle broken packages without protective equipment. Avoid inhalation of vapours/spray and contact with skin and eyes. Use mechanical ventilation in case of handling which causes formation of vapours. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Avoid contact with strong oxidisers. Avoid contact with acids and alkalis. Do not use in confined spaces without adequate ventilation and/or respirator. Contaminated rags and cloths must be put in fireproof containers for disposal. Do not eat, drink or smoke when using the product. Observe good chemical hygiene practices.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Protect from freezing. Flammable/combustible - Keep away from oxidisers, heat and flames. Do not store near heat sources or expose to high temperatures. Take precautionary measures against static discharges.

#### Storage Class

Flammable liquid storage. (TRGS 510: LGK 3)

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Min. Storage Temp (°C) 5

Max. Storage Temp (°C) 40

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
n-Butyl acetate	WEL	150 ppm	724 mg/m <sup>3</sup>	200 ppm	966 mg/m <sup>3</sup>	
Xylene	WEL	50 ppm	220 mg/m <sup>3</sup>	100 ppm	441 mg/m <sup>3</sup>	Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

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## n-Butyl acetate (CAS: 123-86-4)

### DNEL

Industry	Inhalation.	Short Term	Systemic Effects	960 mg/m3
Industry	Inhalation.	Short Term	Local Effects	960 mg/m3
Industry	Inhalation.	Long Term	Systemic Effects	480 mg/m3
Industry	Inhalation.	Long Term	Local Effects	480 mg/m3

REACH dossier information

### PNEC

Freshwater	0.18	mg/l
Marinewater	0.018	mg/l
Intermittent release	0.36	mg/l
STP	35.6	mg/l
Sediment (Freshwater)	0.981	mg/kg
Sediment (Marinewater)	0.0981	mg/kg
Soil	0.0903	mg/kg

REACH dossier information

## Xylene (CAS: 1330-20-7)

### DNEL

Industry	Inhalation.	Short Term	Systemic Effects	289 mg/m3
Industry	Inhalation.	Short Term	Local Effects	289 mg/m3
Industry	Dermal	Long Term	Systemic Effects	180 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	77 mg/m3

REACH dossier information

### PNEC

Freshwater	0.327	mg/l
Marinewater	0.327	mg/l
Intermittent release	0.327	mg/l
STP	6.58	mg/l
Sediment (Freshwater)	12.46	mg/kg
Sediment (Marinewater)	12.46	mg/kg
Soil	2.31	mg/kg

REACH dossier information

## 8.2. Exposure controls

### Protective equipment



### Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area.

### Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Seek advice from supervisor on the companies' respiratory protection standards. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present. If protection is required: Use respiratory equipment with gas filter, type A. Check that mask fits tight and change filter regularly.

### Hand protection

Protective gloves must be used if there is a risk of direct contact or splash. Seek advice from local supervisor. Splash protection: (breakthrough time > 60 minutes). Polyethylene/Ethylene Vinyl Alcohol/Polyethylene (PE/EVAL/PE). (For material thickness = 0.5 mm minimum). Protective gloves should conform to EN 374. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The condition of gloves should be checked prior to each use. The selection of gloves should be made with consideration to working practises and the duration of exposure. Consideration should be given to other chemicals being handled and the working environment (e.g. sharps, fine work). Note: Observe manufacturers's recommendations, as the selection of suitable gloves does not only depend on glove material type, and permeability may vary between manufacturers.

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## Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. Contact lenses should not be worn when working with this chemical!

## Other Protection

Provide eyewash station and safety shower. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

## Hygiene measures

Wash promptly with soap & water if skin becomes contaminated. Promptly remove non-impervious clothing that becomes wet. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties. Wash hands at the end of each work shift and before eating, smoking and using the toilet. **DO NOT SMOKE IN WORK AREA!** Eating, smoking and water fountains prohibited in immediate work area.

## Environmental Exposure Controls

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Characteristic. / Organic solvents.
<b>Solubility</b>	Immiscible with water
<b>Initial boiling point and boiling range (°C)</b>	> 100 °C (760 mm Hg)
<b>Melting point (°C)</b>	Not available.
<b>Relative density</b>	0.82 - 0.91 g/ml (20 °C)
<b>Vapour density (air=1)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>pH-Value, Conc. Solution</b>	Not applicable.
<b>Viscosity</b>	< 20 cSt (40 °C)
<b>Decomposition temperature (°C)</b>	Not available.
<b>Odour Threshold, Lower</b>	Not available.
<b>Odour Threshold, Upper</b>	Not available.
<b>Flash point (°C)</b>	25 °C CC (Closed cup).
<b>Auto Ignition Temperature (°C)</b>	> 350 °C
<b>Flammability Limit - Lower(%)</b>	0.7 %
<b>Flammability Limit - Upper(%)</b>	8.1 %
<b>Partition Coefficient (N-Octanol/Water)</b>	Not available.
<b>Explosive properties</b>	Not applicable.
<b>Oxidising properties</b>	Not applicable.
<b>Comments</b>	Information declared as "Not available" or "Not applicable" is not considered to be justified for enabling proper control measures to be taken.

### 9.2. Other information

**Volatile Organic Compound (VOC)** 100 %w/w

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## SECTION 10: STABILITY AND REACTIVITY

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### **10.1. Reactivity**

No specific reactivity hazards associated with this product.

### **10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

### **10.3. Possibility of hazardous reactions**

Reacts violently with strong oxidising substances. Reacts violently with strong acids. Reacts violently with strong alkaline substances.

#### **Hazardous Polymerisation**

Will not polymerise.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Do not store near heat sources or expose to high temperatures.

### **10.5. Incompatible materials**

#### **Materials To Avoid**

Strong oxidising substances. Strong acids. Strong alkalis.

### **10.6. Hazardous decomposition products**

None under normal conditions. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### **11.1. Information on toxicological effects**

#### **Acute toxicity:**

Harmful in contact with skin.

Harmful if inhaled.

#### **Skin Corrosion/Irritation:**

Causes skin irritation.

#### **Serious eye damage/irritation:**

Causes serious eye irritation.

#### **Respiratory or skin sensitisation:**

Does not contain any substances known to be sensitizing.

#### **Germ cell mutagenicity:**

Does not contain any substances known or suspected to be mutagenic.

#### **Carcinogenicity:**

Does not contain any substances known or suspected to be carcinogenic.

#### **Reproductive Toxicity:**

Does not contain any substances known or suspected to be toxic to reproduction.

#### **Specific target organ toxicity - single exposure:**

May cause respiratory irritation. Respiratory irritant effects that impair function with symptoms such as cough, pain, choking, and breathing difficulties. May cause drowsiness or dizziness. Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.

#### **Specific target organ toxicity - repeated exposure:**

##### **Target Organs**

No specific target organs noted

Prolonged/repeated exposure may have specific toxic effect on organs. May cause damage to organs <<Organs>> through prolonged or repeated exposure.

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**Aspiration hazard:****Viscosity**

Kinematic viscosity <= 20.5 mm<sup>2</sup>/s.

May be fatal if swallowed and enters airways.

**Toxicological information on ingredients.****Xylene (CAS: 1330-20-7)****Acute toxicity:****Acute Toxicity (Oral LD50)**

> 5250 mg/kg Mouse

REACH dossier information

Based on available data the classification criteria are not met.

**Acute Toxicity (Dermal LD50)**

12126 mg/kg Rabbit

REACH dossier information

Harmful in contact with skin.

**Acute Toxicity (Inhalation LC50)**

29 mg/l (vapours) Rat 4 hours

REACH dossier information

Harmful if inhaled.

**Skin Corrosion/Irritation:**

Causes skin irritation.

**Serious eye damage/irritation:**

Causes serious eye irritation.

**Respiratory or skin sensitisation:**

Based on available data the classification criteria are not met.

**Germ cell mutagenicity:**

This substance has no evidence of mutagenic properties.

**Carcinogenicity:**

This substance has no evidence of carcinogenic properties.

**Reproductive Toxicity:**

Does not contain any substances known to be toxic to reproduction.

**Specific target organ toxicity - single exposure:**

May cause respiratory irritation. Respiratory irritant effects that impair function with symptoms such as cough, pain, choking, and breathing difficulties.

**Specific target organ toxicity - repeated exposure:****Target Organs**

No specific target organs noted

May cause damage to organs <<Organs>> through prolonged or repeated exposure.

**Aspiration hazard:****Viscosity**

Kinematic viscosity <= 20.5 mm<sup>2</sup>/s.

REACH dossier information

May be fatal if swallowed and enters airways.

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**SECTION 12: ECOLOGICAL INFORMATION**

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## Ecotoxicity

The product is not expected to be hazardous to the environment. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product does not contain organically bound halogen.

### Ecological information on ingredients.

#### Xylene (CAS: 1330-20-7)

##### Ecotoxicity

Based on available data the classification criteria are not met. The product is not expected to be hazardous to the environment.

## 12.1. Toxicity

Based on available data the classification criteria are not met.

### Ecological information on ingredients.

#### Xylene (CAS: 1330-20-7)

##### Acute Toxicity - Fish

LC50 96 hours 7.6 mg/l Onchorhynchus mykiss (Rainbow trout)  
REACH dossier information

## 12.2. Persistence and degradability

### Degradability

This product is expected to be readily biodegradable.

### Ecological information on ingredients.

#### Xylene (CAS: 1330-20-7)

##### Biodegradation

Water and Sediment Degradation ((of ThOD) 88%) 28 days  
REACH dossier information  
The substance is readily biodegradable.

## 12.3. Bioaccumulative potential

### Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

#### Partition coefficient

Not available.

### Ecological information on ingredients.

#### Xylene (CAS: 1330-20-7)

##### Bioaccumulative potential

Will not bio-accumulate.

#### Partition coefficient

log Pow 3.15

## 12.4. Mobility in soil

### Mobility:

The product is immiscible with water and will spread on the water surface. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

### Ecological information on ingredients.

#### Xylene (CAS: 1330-20-7)

### Mobility:

The product has poor water-solubility. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

## 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

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## Ecological information on ingredients.

### Xylene (CAS: 1330-20-7)

Not Classified as PBT/vPvB by current EU criteria.

## 12.6. Other adverse effects

None known.

## Ecological information on ingredients.

### Xylene (CAS: 1330-20-7)

Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### **General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Keep in original container. Do not puncture or incinerate even when empty.

### 13.1. Waste treatment methods

Environmental manager must be informed of all major spillages. Dispose of waste and residues in accordance with local authority requirements. Do not allow runoff to sewer, waterway or ground. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN)	UN1263
UN No. (IMDG)	UN1263
UN No. (ICAO)	UN1263

### 14.2. UN proper shipping name

Proper Shipping Name	PAINT RELATED MATERIAL
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### 14.3. Transport hazard class(es)

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
IMDG Class	3
ICAO Class/Division	3
Transport Labels	



### 14.4. Packing group

ADR/RID/ADN Packing group	III
IMDG Packing group	III
ICAO Packing group	III

### 14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant  
No.

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## 14.6. Special precautions for user

<b>IMDG Code Segregation Group</b>	Not relevant
<b>EMS</b>	F-E, S-E
<b>Hazard No. (ADR)</b>	30 Flammable liquid (flash-point between 23°C and 60°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 60°C, heated to a temperature equal to or above its flash-point, or self heating liquid.
<b>Tunnel Restriction Code</b>	(D/E)

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

Not relevant Material not supplied in bulk.

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## SECTION 15: REGULATORY INFORMATION

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

#### **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.

#### **EU Legislation**

Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No 790/2009 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP). Commission Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EC) No 286/2011 amending Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).

#### **Authorisations (Title VII Regulation 1907/2006)**

No specific authorisations are noted for this product.

#### **Restrictions (Title VIII Regulation 1907/2006)**

No specific restrictions of use are noted for this product.

#### **Water hazard classification**

WGK 2

### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

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## SECTION 16: OTHER INFORMATION

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#### **General information**

Physical data included in this SDS do not constitute the Product Specification -see separately supplied documentation. Supply classification prepared by calculation.

#### **Revision Comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

<b>Revision Date</b>	02/06/2017
<b>Revision</b>	2
<b>Safety Data Sheet Status</b>	Approved.
<b>Signature</b>	AA

# FRIGILENE REDUCER

## Risk Phrases In Full

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65	Harmful: may cause lung damage if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

## Hazard Statements In Full

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H332	Harmful if inhaled.
H312	Harmful in contact with skin.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Disclaimer

This information relates only to the specific material as supplied and may not be valid for such material if used in combination with any other material(s) or in any other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. The data should not be construed as guaranteeing specific properties of the product described or its suitability for a particular application, nor does it make any warranty, either express or implied of merchantability for the product itself. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.