



SAFETY DATA SHEET

Prefere 4050

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

1.1. Product identifier

Product name Prefere 4050

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

Identified uses Wood adhesive.

1.3. Details of the supplier of the safety data sheet

Supplier TS Resins
Alyn Works,
Denbigh Road,
Mold,
CH7 1BF
01352 757 657
01352 758 914
tech@tsresins.co.uk

1.4. Emergency telephone number

Emergency telephone 01865 407333 (International +44 1865 407333)

Hours of operation Monday 06:00 to Friday 22:00

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Carc. 1B - H350 STOT SE 2 - H371

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H350 May cause cancer.
H371 May cause damage to organs .

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Precautionary statements

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.
P233 Keep container tightly closed.
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.
P261 Avoid breathing vapour/ spray.
P264 Wash contaminated skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.
P308+P313 IF exposed or concerned: Get medical advice/ attention.
P310 Immediately call a POISON CENTER/ doctor.
P321 Specific treatment (see medical advice on this label).
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
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+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/ container in accordance with national regulations.

Contains

ethanol, resorcinol, methanol, sodium hydroxide, formaldehyde

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

ethanol 20 - 25%		
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
Classification Flam. Liq. 2 - H225		
resorcinol 5 - 10%		
CAS number: 108-46-3	EC number: 203-585-2	REACH registration number: 01-2119480136-40-XXXX
M factor (Acute) = 1		
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400		
methanol <3		
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
Classification Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		
sodium hydroxide 1 - 5%		
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX
Classification Met. Corr. 1 - H290 Skin Corr. 1A - H314		

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formaldehyde		0.2 - 1%
CAS number: 50-00-0	EC number: 200-001-8	REACH registration number: 01-2119488953-20-XXXX
Classification Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1A - H317 Muta. 2 - H341 Carc. 1B - H350 STOT SE 3 - H335		

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air at once. If liquid has entered the eyes, proceed as follows. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Chemical burns must be treated by a physician.
Inhalation	Get medical attention immediately. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Get medical attention immediately. Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Chemical burns must be treated by a physician.
Skin contact	Get medical attention immediately. Wash skin thoroughly with soap and water. Remove contaminated clothing. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated by a physician.
Eye contact	Get medical attention immediately. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Chemical burns must be treated by a physician.
Protection of first aiders	No action shall be taken without appropriate training or involving any personal risk. First aid personnel should wear appropriate protective equipment during any rescue. It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves.

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

Inhalation	Irritating to respiratory system. Symptoms following overexposure may include the following: May cause respiratory irritation. Coughing.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Stomach pain.
Skin contact	Corrosive to skin and eyes. Causes burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Corrosive. Causes burns. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.

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

Notes for the doctor	Treat symptomatically. Get medical attention if a large quantity has been ingested.
Specific treatments	No special treatment required.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use foam, carbon dioxide, dry powder or water fog to extinguish. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting Evacuate area. No action shall be taken without appropriate training or involving any personal risk.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk into spilled material. Do not breathe vapour/spray. Provide adequate ventilation. If ventilation is inadequate, suitable respiratory protection must be worn. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

For emergency responders Wear protective clothing as described in Section 8 of this safety data sheet. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Small Spillages: Stop leak if safe to do so. Move containers from spillage area. Contain and absorb spillage with sand, earth or other non-combustible material. Large Spillages: Stop leak if safe to do so. Move containers from spillage area. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with sand or other inert absorbent. The contaminated absorbent may pose the same hazard as the spilled material. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	For personal protection, see Section 8. Do not get in eyes, on skin, or on clothing. Avoid breathing vapour/spray. Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Keep container tightly sealed when not in use. Avoid contact with alkalis. Empty containers or liners may retain some product residues and hence be potentially hazardous. Do not reuse empty containers.
Advice on general occupational hygiene	Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. For personal protection, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Avoid contact with oxidising agents. Keep container tightly sealed when not in use. Use appropriate containment to avoid environmental contamination. Store away from incompatible materials (see Section 10). Keep away from food, drink and animal feeding stuffs.
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7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

ethanol

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m³

resorcinol

Long-term exposure limit (8-hour TWA): WEL 10 ppm 46 mg/m³

Short-term exposure limit (15-minute): WEL 20 ppm 92 mg/m³

Sk

methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Sk

sodium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

formaldehyde

Long-term exposure limit (8-hour TWA): WEL 2 ppm 2.5 mg/m³

Short-term exposure limit (15-minute): WEL 2 ppm 2.5 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

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DNEL

ethanol

Workers - Inhalation; Short term local effects: 1900 mg/m³
Workers - Inhalation; Long term systemic effects: 950 mg/m³
Workers - Dermal; Long term systemic effects: 343 mg/kg/day
Consumer - Inhalation; Short term local effects: 950 mg/m³
Consumer - Inhalation; Long term systemic effects: 114 mg/m³
Consumer - Dermal; Long term systemic effects: 206 mg/kg/day
Consumer - Oral; Long term systemic effects: 87 mg/kg/day

resorcinol

Workers - Dermal; Long term systemic effects: 40 mg/kg/day
Workers - Inhalation; Long term systemic effects: 5.6 mg/m³
Workers - Inhalation; Long term local effects: 1 mg/m³
Workers - Dermal; Short term local effects: 20000 ppm
Consumer - Inhalation; Long term local effects: 1 mg/m³
Consumer - Dermal; Short term local effects: 20000 ppm

Methanol.

Workers - Dermal; Short term systemic effects: 40 mg/kg/day
Workers - Inhalation; Short term systemic effects: 260 mg/m³
Workers - Inhalation; Short term local effects: 260 mg/m³
Workers - Dermal; Long term systemic effects: 40 mg/kg/day
Workers - Inhalation; Long term systemic effects: 260 mg/m³
Workers - Inhalation; Long term local effects: 260 mg/m³
Consumer - Dermal; Short term systemic effects: 8 mg/kg/day
Consumer - Inhalation; Short term systemic effects: 50 mg/m³
Consumer - Oral; Short term systemic effects: 8 mg/kg/day
Consumer - Inhalation; Short term local effects: 50 mg/m³
Consumer - Dermal; Long term systemic effects: 8 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 50 mg/m³
Consumer - Oral; Long term systemic effects: 8 mg/kg/day
Consumer - Inhalation; Long term local effects: 50 mg/m³

Formaldehyde

Workers - Inhalation; Short term local effects: 0.6 ppm
Workers - Dermal; Long term systemic effects: 240 mg/kg/day
Workers - Inhalation; Long term systemic effects: 9 mg/m³
Workers - Dermal; Long term local effects: 0.037 mg/cm²
Workers - Inhalation; Long term local effects: 0.3 ppm
Consumer - Dermal; Long term systemic effects: 102 mg/kg/day
Consumer - Inhalation; Long term systemic effects: 3.2 mg/cm²
Consumer - Oral; Long term systemic effects: 4.1 mg/kg/day
Consumer - Dermal; Long term local effects: 0.012 mg/cm²
Consumer - Inhalation; Long term local effects: 0.1 mg/m³

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PNEC

ethanol

- Fresh water; 0.96 mg/l
- Marine water; 0.79 mg/l
- STP; 580 mg/l
- Fresh water, Sediment; 3.6 mg/kg
- Marine water, Sediment; 2.9 mg/kg
- Soil; 0.63 mg/kg

resorcinol

- Fresh water; 0.0172 mg/l
- Marine water; 0.00172 mg/l
- Fresh water, Sediment; 0.109 mg/kg
- Marine water, Sediment; 0.0109 mg/kg
- Soil; 10 mg/kg

Methanol.

- Fresh water; 154 mg/l
- Marine water; 15.4 mg/l
- Intermittent release; 1540 mg/l
- Sediment; 570.4 mg/kg
- Soil; 23.5 mg/kg
- STP; 100 mg/l

Formaldehyde

- Fresh water; 0.47 mg/l
- Marine water; 0.47 mg/l
- Water; 4.7 mg/l
- Fresh water, Sediment; 2.44 mg/kg
- Marine water, Sediment; 2.44 mg/kg
- Soil; 0.21 mg/kg
- STP; 0.19 mg/l

8.2. Exposure controls

Protective equipment



Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear protective clothing. Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. Take off immediately all contaminated clothing and wash it before reuse. Provide eyewash station and safety shower.

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Purple. Red.
Odour	Slight alcoholic.
Odour threshold	Not available.
pH	pH (concentrated solution): 7.5 - 8.5
Melting point	Not available.
Initial boiling point and range	85 - 100°C
Flash point	31°C PMCC (Pensky-Martens closed cup).
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	Not available.
Other flammability	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.120 - 1.140 @ 25°C
Bulk density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient	Not available.
Auto-ignition temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	400 - 1100 mPa s @ 25°C
Explosive properties	Not available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 24.5 %.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No test data specifically related to reactivity available for this product or its ingredients.
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10.2. Chemical stability

Stability	Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4. Conditions to avoid

Conditions to avoid No data available.

10.5. Incompatible materials

Materials to avoid Avoid contact with strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Under normal conditions of storage and use, no hazardous reactions will occur. No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 2,500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 7,500.0

Acute toxicity - inhalation

ATE inhalation (gases ppm) 51,444.44

ATE inhalation (vapours mg/l) 100.0

Toxicological information on ingredients.

ethanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 7,060.0

Species Rat

ATE oral (mg/kg) 7,060.0

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

resorcinol

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

methanol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,187.0

Species Rat

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 17,100.0 mg/kg)

Species Rabbit

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 128.2

Species Rat

ATE inhalation (vapours mg/l) 3.0

formaldehyde

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 640.0 mg/kg)

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 270.0 mg/kg)

Species Rabbit

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV) 463.0

Species Rat

ATE inhalation (gases ppm) 463.0

Carcinogenicity

IARC carcinogenicity IARC Group 1 Carcinogenic to humans.

NTP carcinogenicity Known human carcinogen.

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SECTION 12: Ecological Information

12.1. Toxicity

Acute toxicity - fish

Ethanol.
 LC₅₀, 96 hours: 14200 mg/l, Freshwater fish, Pimephales promelas (Fat-head Minnow)
 resorcinol
 LC₅₀, 96 hours: 53 mg/l, Pimephales promelas (Fat-head Minnow), Freshwater fish
 methanol
 LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
 NOEC, 200 hours: 7900 mg/l, Oryzias latipes (Red killifish)
 Formaldehyde
 LC₅₀, 96 hours: 4.89 mg/l,

Acute toxicity - aquatic invertebrates

ethanol
 LC₅₀, 48 hours: 5012 mg/l, Daphnia magna, Fresh water
 LC₅₀, 10 days: 1806 mg/l, Daphnia magna, Fresh water
 LC₅₀, 9 days: 454 mg/l, Daphnia magna, Fresh water
 NOEC, 9 days: 9.6 mg/l, Daphnia magna, Fresh water
 resorcinol
 EC₅₀, : 0.8 mg/l, Daphnia magna
 Sodium Hydroxide
 EC₅₀, 48 hours: 40.4 mg/l, Daphnia magna
 methanol
 EC₅₀, 48 hours: >10000 mg/l, Daphnia magna
 Formaldehyde
 EC₅₀, 48 hours: 5.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants

ethanol
 EC₅₀, 4 days: 675 mg/l, Freshwater algae
 resorcinol
 EC₅₀, : 60 mg/l, Freshwater algae, Scenedesmus subspicatus
 methanol
 EC₅₀, 96 hours: 22000 mg/l, Freshwater algae, Selenastrum capricornutum
 Formaldehyde
 EC₅₀, 72 hours: 4.89 mg/l, Freshwater algae, Scenedesmus subspicatus

Ecological information on ingredients.

resorcinol

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

12.2. Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulative potential resorcinol BCFss: 3.16, methanol log Pow: -0.77, BCFss: <10, Formaldehyde log Pow: 0.35, BCFss: 0.396,

Partition coefficient Not available.

12.4. Mobility in soil

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.

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12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

The generation of waste should be minimised or avoided wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

Waste class

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

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SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1866
UN No. (IMDG)	1866
UN No. (ICAO)	1866
UN No. (ADN)	1866

14.2. UN proper shipping name

Proper shipping name (ADR/RID) RESIN SOLUTION

Proper shipping name (IMDG) RESIN SOLUTION

Proper shipping name (ICAO) RESIN SOLUTION

Proper shipping name (ADN) RESIN SOLUTION

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	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	3
Emergency Action Code	•3Y
Hazard Identification Number (ADR/RID)	30

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Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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

National regulations	The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"]. EH40/2005 Workplace exposure limits.
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).

15.2. Chemical safety assessment

SECTION 16: Other information

Revision date	02/03/2018
Revision	02
Supersedes date	20/09/2017
SDS number	5202
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H330 Fatal if inhaled. H331 Toxic if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H370 Causes damage to organs . H371 May cause damage to organs . H400 Very toxic to aquatic life.

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.