

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: ANCHORSTIK FL4656

SUPPLIER: Redwood UK Ltd
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Toluene free sprayable polychloroprene adhesive

	CAS NUMBER	EC NUMBER	REACH REG NO.	M FACTOR (ACUTE)	M FACTOR (CHRONIC)	Classification
Cyclohexane (20-35%)	110-82-7	203-806-2	01-2119463273-41	1	1	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
Acetone (10-20%)	67-64-1	200-662-2	01-2119471330-49	N/A	N/A	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Hydrocarbons, C7-C9 n- alkanes, isoalkanes, cyclics <0.1% benzene (5-10%)	N/A	920-750-0	01-2119473851-33	N/A	N/A	Flam. Liq. 2 - H225 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411
Butanone (5-10%)	78-93-3	201-159-0	01-2119457290-43	N/A	N/A	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336
Hydrocarbons, C7 n- alkanes, isoalkanes, cyclics <0.1% benzene (5-10%)	N/A	927-510-4	01-2119475515-33	N/A	N/A	Flam. Liq. 2 - H225 Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411
Ethanol (1-5%)	64-17-5	200-578-6	01-2119457610-43	N/A	N/A	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319

Xylene (<1%)	1330-20-7	215-535-7	01-2119488216-32	N/A	N/A	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 Aquatic Chronic 3 - H412
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3 HAZARDS IDENTIFICATION

HEALTH HAZARDS: Skin irritation 2 – H315 Eye Irritation. 2- H319 STOT SE 3- H336. This product is irritating to the eyes and skin.

AQUATIC TOXICITY: Aquatic Chronic 1 – H410. This product contains a substance which is very toxic to aquatic organism and which may cause long-term adverse effects in the aquatic environment.

PHYSICAL AND CHEMICAL HAZARDS: Flam Liq. 2 – H225. This product is highly flammable. Vapours may form explosive mixtures with air.

4 LABEL ELEMENTS



Hazard statements

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing vapour/ spray.
P273 Avoid release to the environment.
P312 Call a POISON CENTER/ doctor if you feel unwell.

Contains	P403+P233 Store in a well-ventilated place. Keep container tightly closed. CYCLOHEXANE, ACETONE, BUTANONE, Hydrocarbons, C7-
Supplementary precautionary	C9, nalkanes, isoalkanes, cyclics < 0.1% benzene, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics P271 Use only outdoors or in a well-ventilated area. statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. 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. 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. P321 Specific treatment (see medical advice on this label). P330 Rinse mouth. P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: 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. P391 Collect spillage. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

5 FIRST AID MEASURES

General Information	Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention.
Inhalation	Remove affected person from source of contamination. Move affected person to fresh air at once. If spray/mist has been inhaled,

Ingestion	proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention if a large quantity has been ingested. Show this Safety Data Sheet to the medical personnel.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye Contact	Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 15 minutes and get medical attention.
Protection of first aiders	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.

Most important symptoms and effect, both acute and delayed

General Information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Vapours may cause headache, fatigue, dizziness and nausea.
Ingestion	May cause stomach pain or vomiting.
Skin Contact	Prolonged contact may cause redness, irritation and dry skin.
Eye Contact	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
Specific Treatments	Treat symptomatically.

6 FIREFIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Hazardous Combustion Products	Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride (HCl)

Advice for Firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Ventilate closed spaces before entering them. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

7 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure suitable respiratory protection is worn during removal of spillages in confined areas. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

For non-emergency personnel

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

For emergency responders

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with sand or other inert absorbent.

Reference to other sections

Reference to other sections

Wear protective clothing as described on this safety data sheet.

8 HANDLING AND STORAGE

Precautions for safe handling

Usage precautions

Keep away from heat, sparks and open flame. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and

Advice on general occupational hygiene	water before leaving the work site. Avoid inhalation of vapours/spray and contact with skin and eyes. Wash promptly with soap and water if skin becomes contaminated. Use appropriate hand lotion to prevent defatting and cracking of skin.
<u>Conditions for safe storage, including any incompatibilities</u>	
Storage precautions	Keep away from oxidising materials, heat and flames. Store in tightly closed, original container in a dry, cool and well-ventilated place. Store at temperatures between 5°C and 25°C.
Storage class	Flammable liquid storage.
<u>Specific end use(s)</u> Specific end use(s)	The identified uses for this product are detailed in this datasheet.
Usage description	Adhesive.

9 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters Occupational exposure limits

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 350 mg/m³

Short-term exposure limit (15-minute): WEL 300 1050 mg/m³

ACETONE

Long-term exposure limit (8-hour TWA): WEL 500 ppm 1210 mg/m³

Short-term exposure limit (15-minute): WEL 1500 ppm 3620 mg/m³

Hydrocarbons,C7-C9,n-alkanes,isoalkanes,cyclics<0.1%benzene

Long-term exposure limit (8-hour TWA): WEL 200 ppm 1,000 mg/m³ BUTANONE Long-term

exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m³(Sk)

Hydrocarbons,C7,n-alkanes,isoalkanes,cyclics

Long-term exposure limit (8-hour TWA): OES 500 ppm 2085 mg/m³

ETHANOL

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

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

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³

Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³ Sk

METHANOL

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

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

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³ Sk

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.

CYCLOHEXANE (CAS: 110-82-7)

DNEL

Industry - Inhalation; Short term systemic effects: 700 mg/m

Industry - Inhalation; Short term local effects: 700 mg/m³

Industry - Dermal; Long term systemic effects: 2016 mg/kg/day

Industry - Inhalation; Long term systemic effects: 700 mg/m³

Industry - Oral; Long term local effects: 700 mg/m³

Consumer - Inhalation; Long term systemic effects: 412 mg/m³

Consumer - Inhalation; Long term local effects: 412 mg/m³

Consumer - Oral; Long term systemic effects: 59.4 mg/kg/day

Consumer - Dermal; Long term systemic effects: 1186 mg/kg/day

PNEC

- Fresh water; 0.207 mg/l

- Marine water; 0.207 mg/l

- STP; 3.24 mg/l

- Sediment (Freshwater); 3.627 mg/kg

- Sediment (Marinewater); 3.627 mg/kg

- Soil; 2.99 mg/kg

ACETONE (CAS: 67-64-1)

Ingredient comments

DNEL

WEL = Workplace Exposure Limits

Industry - Dermal; Short term systemic effects: 186 mg/m³

Industry - Inhalation; Short term local effects: 2420 mg/m³

Industry - Inhalation; Long term systemic effects: 1210 mg/m³ Consumer - Dermal; Long term systemic effects: 62 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 200 mg/m³ Consumer - Oral; Long term systemic effects: 62 mg/m³

Industry - Dermal; Long term systemic effects: 186 mg/kg/day

PNEC	- Fresh water; 10.6 mg/l - Marine water; 1.06 mg/l - Sediment (Freshwater); 30.4 mg/kg - Sediment (Marinewater); 3.04 mg/kg - Soil; 29.5 mg/kg - STP; 100 mg/l
BUTANONE (CAS: 78-93-3) DNEL	Consumer - Oral; Long term systemic effects: 31 mg/kg/day Consumer - Dermal; Long term systemic effects: 412 mg/kg/day Industry - Dermal; Long term systemic effects: 1161 mg/kg/day Consumer - Inhalation; Long term systemic effects: 106 mg/m ³ Industry - Inhalation; Long term systemic effects: 600 mg/m ³
PNEC	- Fresh water; 55.8 mg/l - Marine water; 55.8 mg/l - Intermittent release; 55.8 mg/l - STP; 709 mg/l - Sediment (Marinewater); 284.7 mg/kg - Soil; 22.5 mg/kg - Sediment (Freshwater); 284.7 mg/kg
Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics < 0.1% benzene DNEL	Consumer - Oral; Long term systemic effects: 699 mg/kg/day Consumer - Dermal; Long term systemic effects: 699 mg/kg/day Industry - Dermal; Long term systemic effects: 773 mg/kg/day Consumer - Inhalation; Long term systemic effects: 608 mg/m ³ Industry - Inhalation; Long term systemic effects: 2035 mg/m ³
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics DNEL	Industry - Dermal; Long term : 300 mg/kg/day Industry - Inhalation; Long term : 2085 mg/m ³ Consumer - Dermal; Long term : 149 mg/kg/day Consumer - Inhalation; Long term : 447 mg/m ³
ETHANOL (CAS: 64-17-5) DNEL	Consumer - Oral; Long term systemic effects: 87 mg/kg/day Consumer - Dermal; Long term systemic effects: 206 mg/kg/day Industry - Dermal; Long term systemic effects: 343 mg/kg/day Consumer - Inhalation; Short term local effects: 950 mg/m ³ Industry - Inhalation; Short term local effects: 1900 mg/m ³ Consumer - Inhalation; Long term systemic effects: 114 mg/m ³ Industry - Inhalation; Long term systemic effects: 950 mg/m ³
PNEC	- Fresh water; 0.96 mg/l - Sediment (Freshwater); 3.6 mg/kg - Marine water; 0.79 mg/l

- Soil; 0.63 mg/kg

XYLENE (CAS: 1330-20-7)

Ingredient comments WEL = Workplace Exposure Limits

DNEL

Consumer - Dermal; Long term systemic effects: 108 mg/kg/day Industry - Dermal; Long term systemic effects: 180 mg/kg/day Consumer - Inhalation; Short term local effects: 174 mg/m³ Consumer - Inhalation; Short term systemic effects: 174 mg/m³ Industry - Inhalation; Short term systemic effects: 289 mg/m³ Industry - Inhalation; Short term local effects: 289 mg/m³ Consumer - Inhalation; Long term systemic effects: 14.8 mg/m³ Industry - Inhalation; Long term systemic effects: 77 mg/m³

PNEC

- Fresh water; 0.327 mg/l

- Soil; 2.31 mg/kg

METHANOL (CAS: 67-56-1)

DNEL

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

PNEC

- Fresh water; 154 mg/l

- Marine water; 15.4 mg/l

- STP; 100 mg/l

- Soil; 23.5 mg/kg - Intermittent release; 1,540 mg/l

ETHYLBENZENE (CAS: 100-41-4)

DNEL

Workers - Inhalation; Short term local effects: 293 mg/m³

PNEC

- Marine water; 0.01 mg/l - Intermittent release; 0.1 mg/l

- Sediment (Marinewater); 1.37 mg/l

PARATERTIARYBUTYLPHENOL (CAS: 98-54-4)

PNEC

- Soil; 0.324 mg/kg

- Fresh water; 0.01 mg/l

- Sediment (Freshwater); 0.975 mg/l

- Sediment (Marinewater); 0.0975 mg/l

Exposure controls Protective equipment

Appropriate engineering controls	Provide adequate ventilation. Avoid inhalation of vapours. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.
Eye/face protection	Wear chemical splash goggles. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166.
Hand protection	Wear protective gloves made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 6 hours. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. When used with mixtures, the protection time of gloves cannot be accurately estimated.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.
Thermal hazards	Contact with hot product can cause serious thermal burns.
Environmental exposure controls	Keep container tightly sealed when not in use.

10 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber. Red.
Odour	Organic solvents.
Odour threshold	Not determined.
pH	Not available.
Melting point	Not applicable.
Flash point	7°C CC (Closed cup).
Evaporation rate	Not available.
Evaporation factor	Not determined.
Upper/lower flammability or explosive limits	Upper flammable/explosive limit: 19 Lower flammable/explosive limit: 1
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	0.818 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	9.0 - 10.0, ISO 976
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	120-280 cP @ 23°C
Explosive properties	Not determined.
Oxidising properties	Not determined.
Comments	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.
<u>Other information</u>	
Refractive index	Not applicable.
Particle size	Not available.
Molecular weight	Not applicable.
Volatility	Highly volatile.
Saturation concentration	Not available.
Critical temperature	Not determined.
Volatile organic compound	This product contains a maximum VOC content of 670 g/litre.

11 STABILITY AND REACTIVITY

Reactivity	There are no known reactivity hazards associated with this product. Chemical stability Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	Not applicable.
Conditions to avoid	Avoid heat, flames and other sources of ignition.
Incompatible materials-Materials to avoid	No specific material or group of materials is

Hazardous decomposition products likely to react with the product to produce a hazardous situation.
Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO₂). Hydrogen chloride (HCl).

12 TOXICOLOGICAL AND ECOLOGICAL INFORMATION

Acute toxicity - oral Notes (oral LD)	Not determined.
Acute toxicity - dermal Notes (dermal LD)	Not determined.
Acute toxicity - inhalation Notes (inhalation LC)	Not determined.
Skin corrosion/irritation Human skin model test	Not determined.
Extreme pH	Not determined.
Serious eye damage/irritation	Not determined.
General information	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Vapours may cause drowsiness and dizziness.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin.
Eye contact	Irritating to eyes. Causes serious eye irritation.
Route of entry	Inhalation Skin absorption
Medical symptoms	Symptoms following overexposure to vapour may include the following: Dry skin. Headache. Intoxication.

CYCLOHEXANE

Acute toxicity - oral	Acute toxicity oral (LD mg/kg)	5,050.0
Species		Rat
ATE oral (mg/kg)		5,050.0
Acute toxicity - dermal		
Acute toxicity dermal (LD)		2,500.0 mg/kg)
Species		Rabbit
ATE dermal (mg/kg)		2,500.0
Acute toxicity inhalation (LC vapours mg/l)		2,593.0
Species		Rat

ACETONE

Acute toxicity oral (LD mg/kg)	5,800.0
Species	Rat
ATE oral (mg/kg)	5,800.0
Acute toxicity dermal	(LD 7,400.0 mg/kg)
Species	Rabbit
Acute toxicity - inhalation (LC vapours mg/l)	76.0

Species	Rat
ATE inhalation (vapours mg/l)	76.0
Hydrocarbons,C7-C9,n-alkanes,isoalkanes,cyclics<0.1%benzene	
Acute toxicity oral (LD mg/kg)	5,850.0
Species	Rat
ATE oral (mg/kg)	5,850.0
Acute toxicity dermal	(LD 3,000.0 mg/kg)
Species	Rabbit
ATE dermal (mg/kg)	3,000.0
BUTANONE	
Acute toxicity oral (LD mg/kg)	2,193.0
Species	Rat
ATE oral (mg/kg)	2,193.0
Acute toxicity - dermal	(LD 5,050.0 mg/kg)
Species	Rabbit
ATE dermal (mg/kg)	5,050.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC vapours mg/l)	5,000.0
Species	Rat
ATE inhalation (vapours mg/l)	5,000.0
Hydrocarbons,C7,n-alkanes,isoalkanes,cyclics	
Acute toxicity oral (LD mg/kg)	5,840.0
Species	Rat
ATE oral (mg/kg)	5,840.0
Acute toxicity - dermal	(LD 2,920.0 mg/kg)
Species	Rabbit
ATE dermal (mg/kg)	2,920.0
ETHANOL	
Acute toxicity - oral (LD mg/kg)	7,060.0
Species	Rat
ATE oral (mg/kg)	7,060.0
Acute toxicity - dermal	(LD 2,050.0 mg/kg)
Species	Rabbit
ATE dermal (mg/kg)	2,050.0
Acute toxicity - inhalation	(LC vapours mg/l) 20,000.0
Species	Rat
ATE inhalation (vapours mg/l)	20,000.0
XYLENE	
Acute toxicity - oral Acute toxicity oral (LD mg/kg)	4,300.0
Species	Rat
ATE oral (mg/kg)	4,300.0
Acute toxicity dermal	(LD 2,000.0 mg/kg)
Species	Rabbit
ATE dermal (mg/kg)	1,100.0
Acute toxicity - inhalation (LC vapours mg/l)	10.0

Species	Rat
ATE inhalation (vapours mg/l)	10.0
Carcinogenicity IARC carcinogenicity IARC Group 3	Not classifiable as to its carcinogenicity to humans.
Butylated reaction product of p-cresol & dicyclopentadiene	
Acute toxicity - oral (LD mg/kg)	5,001.0
Species	Rat
ATE oral (mg/kg)	5,001.0
Acute toxicity - dermal	(LD 2,001.0 mg/kg)
Species	Rat
ATE dermal (mg/kg)	2,001.0

METHANOL

Acute toxicity - oral ATE oral (mg/kg)	100.0
Acute toxicity - dermal	(LD 2,000.0 mg/kg)
Species	Rabbit
Acute toxicity - inhalation Acute toxicity inhalation	(LC vapours mg/l) 20.0
Species	Rat
ATE inhalation (vapours mg/l)	20.0

ETHYLBENZENE

Acute toxicity - oral Acute toxicity oral (LD mg/kg)	3,500.0
Species	Rat
ATE oral (mg/kg)	3,500.0
Acute toxicity - dermal	(LD 4,100.0 mg/kg)
Species	Rabbit
ATE dermal (mg/kg)	4,100.0
Acute toxicity - inhalation (LC gases ppmV)	4,000.0
Species	Rat
ATE inhalation (gases ppm)	4,000.0
Carcinogenicity IARC carcinogenicity IARC Group 2B	Possibly carcinogenic to humans.

PARATERTIARYBUTYLPHENOL

Acute toxicity - oral Acute toxicity oral (LD mg/kg)	5,660.0
Species	Rat
ATE oral (mg/kg)	5,660.0
Acute toxicity – dermal	(LD 4,100.0 mg/kg)
Species	Rabbit
ATE dermal (mg/kg)	4,100.0

Ecotoxicity

	Dangerous for the environment if discharged into watercourses. Very toxic to aquatic life with long lasting effects.
Toxicity Acute toxicity - fish	Not determined.
Acute toxicity - aquatic invertebrates	Not determined.
Acute toxicity - aquatic plants	Not determined.
Acute toxicity microorganisms	Not determined.
Acute toxicity - terrestrial	Not determined.
Chronic toxicity - fish early life	Not determined. stage
Short term toxicity - embryo and sac fry stages	Not determined.

Chronic toxicity - aquatic invertebrates Not determined.

CYCLOHEXANE

Acute aquatic toxicity

LE(C) 0.1 < L(E)C50 ≤ 1 M factor (Acute) 1

Acute toxicity - fish LC50, 96 hours: 4.53 mg/l, Pimephales promelas (Fat-head Minnow) Acute toxicity - aquatic invertebrates

EC , 48 hours: 0.9 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC , 72 hours: 3.4 mg/l, Selenastrum capricornutum

Chronic aquatic toxicity M factor (Chronic) 1

ACETONE

Acute toxicity - fish

LC50, 96 hours: 5540 mg/l, Onchorhynchus mykiss (Rainbow trout) LC50, 96 hours: 8,300 mg/l, Lepomis macrochirus (Bluegill) LC , 96 hours: >100 mg/l, Algae

Acute toxicity - aquatic invertebrates EC , 48 hours: 8,800 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, 96 hours: 430 mg/l, Freshwater algae IC , 72 hours: >100 mg/l, Fish

Chronic toxicity - aquatic invertebrates NOEC, 28 days: 10-<100 mg/l, Freshwater invertebrates

Hydrocarbons,C7-C9,n-alkanes,isoalkanes,cyclics<0.1%benzene

Acute toxicity - fish LC , 96 hours: 1-10 mg/l, Algae NOEC, 0.1 : 1.0 mg/l, Algae

Acute toxicity - aquatic invertebrates EC , 48 hours: 10-100 mg/l, Daphnia magna

Acute toxicity microorganisms IC , : 1-10 mg/l, Activated sludge NOEC, 0.01 : 0.1 mg/l, Activated sludge

BUTANONE

Acute toxicity - fish

LC50, 96 hours: 2993 mg/l, Pimephales promelas (Fat-head Minnow) LC50, 48 hours: > 100 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC , 48 hours: 308 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC , 96 hours: 2029 , Pseudokirchneriel la subcapitata

Acute toxicity microorganisms EC , 96 hours: > 50 mg/l, Activated sludge

Hydrocarbons,C7,n-alkanes,isoalkanes,cyclics

Acute toxicity - fish

LC , 96 hours: 13.5 mg/l, Onchorhynchus mykiss (Rainbow trout) Acute toxicity - aquatic invertebrates EC , 48 hours: 3 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC , 72 hours: 10 mg/l, Freshwater algae

IC , 72 hours: 10 mg/l, Freshwater algae

Chronic toxicity - fish early life stage NOEC, 28 days: 1.53 mg/l, Onchorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 1 mg/l, Daphnia magna

ETHANOL

Acute toxicity - fish

LC50, 48 hours: > 100 mg/l, Leuciscus idus

Acute toxicity - aquatic invertebrates (Golden orfe) LC , 96 hours: 1030 mg/l, Algae
EC , 48 hours: > 100 mg/l, Daphnia magna
Acute toxicity - aquatic plants EC , >: > 100 mg/l, Freshwater algae

XYLENE

Acute toxicity - fish LC50, 96 hours: 8.9 - 16.4 mg/l, Pimephales promelas (Fat-head Minnow)
EC , 96 hours: 86 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates EC , 48 hours: 3.2- 9.5 mg/l, Daphnia magna
Acute toxicity - aquatic plants EC , 48 hours: 1 - 10 mg/l, Scenedesmus subs picatus
Acute toxicity microorganisms Butylated reaction product of p-cresol & dicyclopentadiene
Acute toxicity - fish LC50, 96 hours: > 0.2 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates EC , 96 hours: > 0.2 mg/l, Daphnia magna

METHANOL

Acute toxicity - fish LC , 96 hours: >7900 mg/l, Algae
Acute toxicity - aquatic invertebrates EC , 24 hours: 7,600 mg/l, Daphnia magna
Acute toxicity - aquatic plants EC , >: > 500 mg/l, Freshwater algae

ETHYLBENZENE

Acute toxicity - fish LC50, 48 hours: 44 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates EC , 48 hours: 75 mg/l, Daphnia magna
Acute toxicity - aquatic plants , : , Acute toxicity microorganisms , :

PARATERTIARYBUTYLPHENOL

Acute toxicity - fish LC50, 96 hours: > 4.71 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates EC , 48 hours: > 3.5 mg/l, Daphnia magna

Persistence and degradability

The product is expected to be slowly biodegradable.

Phototransformation	Not relevant.
Stability (hydrolysis)	Not determined.
Biodegradation	Not determined.
Biological oxygen demand	Not determined.
Chemical oxygen demand	Not determined.

CYCLOHEXANE

Biodegradation Degradation (%) - 77:

ACETONE

Persistence and degradability The product is readily biodegradable.
Biodegradation - Degradation (%) : days readily biodegradable –
Degradation (%) 91: 28 days readily biodegradable

Biological oxygen demand 1.9 g O /g substance
Chemical oxygen demand 2.1 g O /g substance

BUTANONE

Persistence and degradability

The product is biodegradable.

Biodegradation Water - Degradation (%) 98: 28 days readily biodegradable

Hydrocarbons,C7,n-alkanes,isoalkanes,cyclics

Biodegradation Degradation (%) - 98:

ETHANOL

Biodegradation - Degradation (%) 70: >

XYLENE

Biodegradation Water - Degradation (%) 60: > 28 days readily biodegradable

ETHYLBENZENE

Biodegradation Water - Degradation (%) 70 - 80: 28 days readily biodegradable

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient Not determined.

CYCLOHEXANE

Bioaccumulative potential : 83.15,

Partition coefficient : 3.44

ACETONE

Bioaccumulative potential The product is not bioaccumulating.

BCF: < 10, Will not accumulate

BUTANONE

Bioaccumulative potential The product is not bioaccumulating.

METHANOL

Bioaccumulative potential BCF: 28,400, 9.0 - 10.0, ISO 976

Mobility in soil

The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Adsorption/desorption coefficient Not determined.

Henry's law constant Not determined.

Surface tension Not determined.

BUTANONE

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

ACETONE

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

BUTANONE

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

XYLENE

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects

Not known.

13 DISPOSAL CONSIDERATIONS

Waste treatment methods

General information

Waste liquid components should be suitable for incineration at an approved facility.

Disposal methods

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

14 TRANSPORT INFORMATION

UN No. (ADR/RID)

1133

UN No. (IMDG)

1133

UN No. (ICAO)

1133

UN proper shipping name

Proper shipping name (ADR/RID)

ADHESIVES (CYCLOHEXANE)

Proper shipping name (IMDG)

ADHESIVES (CYCLOHEXANE)

Proper shipping name (ICAO)

ADHESIVES (CYCLOHEXANE)

Proper shipping name (ADN)

ADHESIVES (CYCLOHEXANE)

Transport hazard class(es)

ADR/RID class

3

ADR/RID label

3

IMDG class

3

ICAO class/division

3

Transport labels



Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II

Environmental hazards



Special precautions for user

EmS	F-E, S-D
Emergency Action Code •	3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

15 REGULATORY INFORMATION

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

National regulations	Control of Pollution Act 1974. Control of Substances Hazardous to Health Regulations 2002 (as amended). Health and Safety at Work etc. Act 1974 (as amended). EH40/2005 Workplace exposure limits.
EU legislation	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). 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).
Guidance	Safety Data Sheets for Substances and Preparations.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this

16 OTHER INFORMATION

Abbreviations and acronyms used in the safety data sheet

ATE:	Acute Toxicity Estimate.
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service.
DNEL:	Derived No Effect Level. GHS: Globally Harmonized System.

IATA:	International Air Transport Association.
ICAO-TI: Goods by Air.	Technical Instructions for the Safe Transport of Dangerous
IMDG:	International Maritime Dangerous Goods.
Kow:	Octanol-water partition coefficient.
LC :	Lethal Concentration to 50 % of a test population.
LD :	Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT:	Persistent, Bioaccumulative and Toxic substance.
PNEC:	Predicted No Effect Concentration.
REACH:	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID:	European Agreement concerning the International Carriage of Dangerous Goods by Rail.
SVHC:	Substances of Very High Concern.
vPvB:	Very Persistent and Very Bioaccumulative.
IARC:	International Agency for Research on Cancer.
MARPOL 73/78:	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
cATpE:	Converted Acute Toxicity Point Estimate.
BCF:	Bioconcentration Factor.
EC :	50% of maximal Effective Concentration.
LOAEC:	Lowest Observed Adverse Effect Concentration.
LOAEL:	Lowest Observed Adverse Effect Level.
NOAEC:	No Observed Adverse Effect Concentration.
NOAEL:	No Observed Adverse Effect Level.
NOEC:	No Observed Effect Concentration.
LOEC:	Lowest Observed Effect Concentration.
DMEL:	Derived Minimal Effect Level.
UN:	United Nations.
IBC:	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).
Key literature references and sources for data	Dangerous Properties of Industrial Materials Report, N.Sax et.al.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Hazard statements in full	H225 Highly flammable liquid and vapour. 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. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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Reference should be made to any relevant local or national health, safety, and environmental legislation. This information does not constitute indication of suitability for specific use.

LEGAL DISCLAIMER:

The above information is based on our present knowledge of the product and is given in good faith. The information has been verified so far as is possible, but no obligation is accepted or is implied for its accuracy or completeness. It is presented in accordance with the requirements of 91/155/EEC as enacted into British practice by The Chemicals (Hazard Information and Packaging for Supply Regulations 2002 SI 1689 2002). Unless otherwise stated statutory regulations refer to those for the United Kingdom, thus exposure limits, for example, are those for the UK.

It should be understood that the uses to which this material might be put and the conditions under which it is used are entirely beyond control of Redwood UK Ltd. Consequently, the assessment of the risks of using this material lie with the user: this information is NOT an assessment of those risks.