



SAFETY DATA SHEET

AN 1823

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

1.1. Product identifier

Product name	AN 1823
Product number	AN 1823
UFI	UFI: 7W20-304A-C007-WRH2

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

Identified uses	Adhesive.
Uses advised against	No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier	Alpha Adhesives & Sealants Ltd Llewellyn Close Sandy Lane Ind. Estate Stourport-on-Severn Worcs. UK DY13 9RH Tel: 0044(0)1299 828626 Fax: 0044(0)1299 828666 Email: sales@alpha-adhesives.co.uk
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1.4. Emergency telephone number

Emergency telephone	44 (0) 1299 828626 (Available 08.30 to 17.00)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

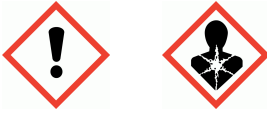
Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Carc. 2 - H351 Repr. 2 - H361d STOT SE 3 - H335 STOT RE 2 - H373
Environmental hazards	Not Classified

Human health	Contains a substance/a group of substances which may damage the unborn child. Suspected of causing cancer.
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Environmental	The product is not expected to be hazardous to the environment.
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Physicochemical	Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.
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2.2. Label elements

AN 1823**Hazard pictograms****Signal word**

Warning

Hazard statements

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H361d Suspected of damaging the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.
 EUH208 Contains ROSIN. May produce an allergic reaction.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe vapour/ spray.
 P261 Avoid breathing vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 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.
 P308+P313 IF exposed or concerned: Get medical advice/ attention.
 P312 Call a POISON CENTRE/doctor if you feel unwell.
 P314 Get medical advice/ attention if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 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.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

DICHLOROMETHANE, TOLUENE

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

DICHLOROMETHANE		65-80%
CAS number: 75-09-2	EC number: 200-838-9	REACH registration number: 01-2119480404-41
Classification		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Carc. 2 - H351		
STOT SE 3 - H335		
STOT RE 2 - H373		

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TOLUENE			1-5%
CAS number: 108-88-3	EC number: 203-625-9	REACH registration number: 01-2119471310-51	
Classification			
Flam. Liq. 2 - H225			
Skin Irrit. 2 - H315			
Repr. 2 - H361d			
STOT SE 3 - H336			
STOT RE 2 - H373			
Asp. Tox. 1 - H304			
BUTANONE			1-5%
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-2119457290-43	
Classification			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			
STOT SE 3 - H336			
ROSIN			<0.4%
CAS number: 8050-09-7	EC number: 232-475-7		
Classification			
Skin Sens. 1 - H317			
ETHYLBENZENE			<1%
CAS number: 100-41-4	EC number: 202-849-4	REACH registration number: 01-2119489370-35	
Classification			
Flam. Liq. 2 - H225			
Acute Tox. 4 - H332			
STOT RE 2 - H373			
Asp. Tox. 1 - H304			

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

Composition comments The product contains organic solvents.

Chemical Nature

chemical nature

SECTION 4: First aid measures**4.1. Description of first aid measures**

General information Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.

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Ingestion	Do not induce vomiting. Remove affected person from source of contamination. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.
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.

4.2. Most important symptoms and effects, 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 in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.
Eye contact	May cause temporary eye irritation.

4.3. 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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc.
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

Specific hazards	Fire creates: Thermal decomposition or combustion products may include the following substances: Irritating gases or vapours. Carbon dioxide (CO ₂). Carbon monoxide (CO). Halogenated hydrocarbons. Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours.
Hazardous combustion products	Fire or high temperatures create: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride (HCl).

5.3. Advice for firefighters

Protective actions during firefighting	Avoid breathing fire gases or vapours. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

For non-emergency personnel Wear protective clothing as described in Section 8 of this safety data sheet.

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

6.2. Environmental precautions

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

6.3. 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. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Keep away from heat, sparks and open flame. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Wear eye and face protection.

Advice on general occupational hygiene Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

DICHLOROMETHANE

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

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 1060 mg/m³(Sk)

TOLUENE

Long-term exposure limit (8-hour TWA): 50 191

Short-term exposure limit (15-minute): 100 384

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)

ROSIN

Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m³

Short-term exposure limit (15-minute): WEL 0.15 mg/m³

XYLENE

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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

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.

Ingredient comments

WEL = Workplace Exposure Limits

DICHLOROMETHANE (CAS: 75-09-2)**DNEL**

Industry - Inhalation; Long term local effects: 353 mg/m³

Industry - Dermal; Long term local effects: 4750 mg/kg/day

Industry - Inhalation; Short term local effects: 706 mg/m³

Consumer - Inhalation; Long term local effects: 88.3 mg/m³

Consumer - Oral; Short term local effects: 0.06 mg/kg/day

Consumer - Inhalation; Short term local effects: 353 mg/m³

Consumer - Dermal; Short term local effects: 2395 mg/kg/day

PNEC

- Fresh water; 0.54 mg/l

- marine water; 0.194 mg/l

- Intermittent release; 0.27 mg/l

- Sediment (Freshwater); 0.972 mg/kg

- Sediment (Marinewater); 0.349 mg/kg

- STP; 26 mg/l

- Soil; 0.972 mg/kg

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/m³

Industry - Inhalation; Long term systemic effects: 600 mg/m³

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

TOLUENE (CAS: 108-88-3)

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DNEL

Consumer - Oral; Long term systemic effects: 8.13 mg/m³
 Industry - Dermal; Long term systemic effects: 384 mg/kg/day
 Consumer - Inhalation; Short term local effects: 226 mg/m³
 Consumer - Inhalation; Short term systemic effects: 226 mg/m³
 Industry - Inhalation; Short term systemic effects: 384 mg/m³
 Industry - Inhalation; Short term local effects: 384 mg/m³
 Industry - Inhalation; Long term local effects: 192 mg/m³
 Consumer - Inhalation; Long term systemic effects: 56.5 mg/m³
 Industry - Inhalation; Long term systemic effects: 192 mg/m³

PNEC

- Fresh water; 0.68 mg/l
- Sediment (Freshwater); 16.39 mg/kg
- STP; 13.61 mg/l
- Soil; 2.89 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

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

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

8.2. Exposure controls**Protective equipment**

Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

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Eye/face protection	The following protection should be worn: Chemical splash goggles or face shield. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	Use protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. To protect hands from chemicals, gloves should comply with European Standard EN374. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Use engineering controls to reduce air contamination to permissible exposure level. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin.
Respiratory protection	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.
Thermal hazards	Contact with hot product can cause serious thermal burns.
Environmental exposure controls	Keep container tightly sealed when not in use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Buff.
Odour	Chlorinated hydrocarbons.
Odour threshold	Not available.
pH	Not applicable.
Melting point	Not available.
Initial boiling point and range	41- - 87°C @ 760 mm Hg
Flash point	N/A°C
Evaporation rate	Not available.
Evaporation factor	Not available.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1.22-1.25 @ @ 20°C
Bulk density	Not relevant.
Solubility(ies)	Insoluble @ °C
Partition coefficient	Not known.

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Auto-ignition temperature	Not determined.
Decomposition Temperature	Not known.
Viscosity	5,000 - 6,500 cP @ 20°C
Explosive 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.

9.2. Other information

Refractive index	Not relevant.
Particle size	Not known.
Molecular weight	Not available.
Saturation concentration	Not known.
Critical temperature	Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable. Not relevant.
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10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
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10.5. Incompatible materials

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

Hazardous decomposition products	Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO ₂). Halogenated hydrocarbons.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other health effects	Suspected of causing cancer.
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Acute toxicity - oral

Notes (oral LD₅₀)	Not known.
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Acute toxicity - dermal

Notes (dermal LD₅₀)	Not known.
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Acute toxicity - inhalation

Notes (inhalation LC₅₀)	Not known.
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AN 1823**Carcinogenicity**

Carcinogenicity Suspected of causing cancer.

General information Known or suspected carcinogen for humans.

Inhalation Inhalation is the most significant route of exposure to solvents. Chlorinated solvents affect the central nervous system giving rise to symptoms which include light headedness, headache, drowsiness and fatigue.

Ingestion May cause discomfort if swallowed.

Skin contact Product has a defatting effect on skin.

Eye contact Irritating to eyes.

Acute and chronic health hazards Suspected of damaging the unborn child. Suspected of causing cancer.

Route of exposure Inhalation Skin absorption

Target organs No specific target organs known.

Medical symptoms Symptoms following overexposure may include the following: Dizziness. Dry skin. Headache. Nausea, vomiting.

Toxicological information on ingredients.**DICHLOROMETHANE**

Other health effects Suspect Cancer Hazard.

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,500.0

Species Rat

ATE oral (mg/kg) 2,500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,500.0

Species Rat

ATE dermal (mg/kg) 2,500.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 49.0

Species Rat

ATE inhalation (vapours mg/l) 49.0

TOLUENE**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ mg/kg) 4,328.0

AN 1823

Species	Rat
ATE oral (mg/kg)	4,328.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	6,000.0
Species	Rabbit
ATE dermal (mg/kg)	6,000.0
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	21.0
Species	Rat
ATE inhalation (vapours mg/l)	21.0

BUTANONE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	2,193.0
Species	Rat
ATE oral (mg/kg)	2,193.0
<u>Acute toxicity - dermal</u>	
Acute toxicity dermal (LD₅₀ mg/kg)	5,050.0
Species	Rabbit
ATE dermal (mg/kg)	5,050.0
<u>Acute toxicity - inhalation</u>	
Acute toxicity inhalation (LC₅₀ vapours mg/l)	5,000.0
Species	Rat
ATE inhalation (vapours mg/l)	5,000.0

XYLENE

<u>Acute toxicity - oral</u>	
Acute toxicity oral (LD₅₀ mg/kg)	4,300.0
Species	Rat
ATE oral (mg/kg)	4,300.0
<u>Acute toxicity - dermal</u>	

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Acute toxicity dermal (LD₅₀ 2,000.0 mg/kg)

Species Rabbit

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ 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.

PARATERTIARYBUTYLPHENOL**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ 5,660.0 mg/kg)

Species Rat

ATE oral (mg/kg) 5,660.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 4,100.0 mg/kg)

Species Rabbit

ATE dermal (mg/kg) 4,100.0

SECTION 12: Ecological information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

12.1. Toxicity**Acute aquatic 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 aquatic toxicity

Chronic toxicity - fish early life stage Not determined.

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Short term toxicity - embryo and sac fry stages Not determined.

Chronic toxicity - aquatic invertebrates Not determined.

Ecological information on ingredients.**DICHLOROMETHANE****Acute aquatic toxicity**

Acute toxicity - fish LC50, 96 hours: 193 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 220 mg/l, Daphnia magna

Acute toxicity - aquatic plants NOEC, : 550 mg/l, Scenedesmus subspicatus
EC₅₀, 96 hours: 665 mg/l, Selenastrum capricornutum

TOLUENE**Acute aquatic toxicity**

Acute toxicity - fish LC50, 96 hours: 13 mg/l, Carassius auratus (Goldfish)
LC50, 96 hours: 24 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 11.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 12 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms NOEC, : 29 mg/l, Activated sludge

BUTANONE**Acute aquatic toxicity**

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 EC₅₀, 48 hours: 308 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 2029 , Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC₅₀, 96 hours: > 50 mg/l, Activated sludge

XYLENE**Acute aquatic toxicity**

Acute toxicity - fish LC50, 96 hours: 8.9 - 16.4 mg/l, Pimephales promelas (Fat-head Minnow)
EC₅₀, 96 hours: 86 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 3.2- 9.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 48 hours: 1 - 10 mg/l, Scenedesmus subspicatus

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Acute toxicity - microorganisms , : ,

PARATERTIARYBUTYLPHENOL**Acute aquatic toxicity**

Acute toxicity - fish LC50, 96 hours: > 4.71 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 3.5 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

Phototransformation Not relevant.

Stability (hydrolysis) Not determined.

Biodegradation Not determined.

Biological oxygen demand Not determined.

Chemical oxygen demand Not determined.

Ecological information on ingredients.**DICHLOROMETHANE**

Persistence and degradability The product is potentially degradable.

TOLUENE

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation (%) 86: 20 days readily biodegradable

Biological oxygen demand 1.23 g O₂/g substance

BUTANONE

Persistence and degradability The product is biodegradable.

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

XYLENE

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

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient Not known.

Ecological information on ingredients.

AN 1823**DICHLOROMETHANE**

Bioaccumulative potential BCF: 0.91,

TOLUENE

Bioaccumulative potential The product is not bioaccumulating. BCF: ,

BUTANONE

Bioaccumulative potential The product is not bioaccumulating.

12.4. Mobility in soil

Mobility	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.

Ecological information on ingredients.**TOLUENE**

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

BUTANONE

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

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.

Ecological information on ingredients.**DICHLOROMETHANE**

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

TOLUENE

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

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

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor.

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

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1593

UN No. (IMDG) 1593

UN No. (ICAO) 1593

14.2. UN proper shipping name

Proper shipping name (ADR/RID) DICHLOROMETHANE

Proper shipping name (IMDG) DICHLOROMETHANE

Proper shipping name (ICAO) DICHLOROMETHANE

Proper shipping name (ADN) DICHLOROMETHANE

14.3. Transport hazard class(es)

ADR/RID class 6.1

ADR/RID label 6.1

IMDG class 6.1

ICAO class/division 6.1

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

AN 1823

EmS	F-A, S-A
Emergency Action Code	2Z
Hazard Identification Number (ADR/RID)	60
Tunnel restriction code	(E)

14.7. 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.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

National regulations	Petroleum (Consolidation) Act, as amended 1984 SI 1244. Highly Flammable Liquid Regulations 1972. Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste) Regulations 1980 (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	System of specific information relating to Dangerous Preparations. 2001/58/EC.
Guidance	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131.
Authorisations (Annex XIV Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ADR : European Agreement concerning the International Transport of Dangerous Goods by Road RID : Regulations Concerning the International Transport of Dangerous Goods by Rail IMDG : International Maritime Code for Dangerous Goods IATA : International Air Transport Association ICAO : International Civil Aviation Organization GHS : Globally Harmonized System of Classification and Labelling of Chemicals EINECS : European Inventory of Existing Commercial Chemical Substances CAS : Chemical Abstracts Service DNEL ; Derived No Effect Level (REACH) PNEC : Predicted No Effect Concentration (REACH) LC50 : Lethal Concentration 50 percent LD50 : Lethal Dose 50 percent
Key literature references and sources for data	Dangerous Properties of Industrial Materials Report, N.Sax et.al.

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Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	25/08/2020
Revision	10
Supersedes date	07/01/2019
Hazard statements in full	H225 Highly flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H361d Suspected of damaging the unborn child. H373 May cause damage to organs (Hearing organs) through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. EUH208 Contains ROSIN. May produce an allergic reaction.

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.