

MATERIAL SAFETY DATA SHEET

DESCRIPTION

THIXOFIX CONTACT ADHESIVE



ORDER CODE

A 139 MSDS

SECTION 1: Identification of the substance / preparation and company

1.1 Product identifier

Thixofix (Improved)

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

Adhesive

No specific uses advised against are identified

1.3 Details of the supplier of the safety data sheet:

Seals + Direct Ltd Unit 6, Milton Business Centre Wick Drive, New Milton Hants, BH25 6RH Tel: 01425 617722

Fax: 01425 610967

Email: sales@sealsplusdirect.co.uk

1.4 Emergency telephone number

Tel: 01425 617722 (Mon – Fri 8:30am – 5pm)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Elicitation -

EUH208 STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or Xi:R36/38, F;R11, N;R51/53, R67,

1999/45/EC)

Human health The product is irritating to eyes and skin. Product

has a defatting effect on skin.

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Environmental The product contains a substance which is toxic to

aquatic organisms and which may cause long-term

adverse effects in the aquatic environment.

Physicochemical Vapours are heavier than air and may travel along

the floor and accumulate in the bottom of containers.

2.2. Label elements

Pictogram







Signal word

Hazard statements EUH208 Contains ROSIN. May produce an allergic

reaction

Danger

H315 Causes skin irritation

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects

H336 May cause drowsiness or dizziness

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.

P403+P233 Store in a well-ventilated place. Keep

container tightly closed

Contains CYCLOHEXANE, BUTANONE, Hydrocarbons, C7-

C9, nalkanes, isoalkanes, cyclics < 0.1% benzene,

ACETONE, ETHYL ACETATE

Supplementary precautionary

Statements

P240 Ground/bond container and

receiving equipment

P241 Use explosion-proof electrical equipment

P242 Use only non-sparking tools

P264 Wash contaminated skin thoroughly after

handling

P271 Use only outdoors or in a well-ventilated area

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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

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)

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

2.3. Other hazards

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

SECTION 3: Composition / information on ingredients

3.1 Mixtures

CYCLOHEXANE		10-30%
CAS number: 110-82-7	EC number: 203-806-2	REACH registration number: 01-2119463273-41
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225		F;R11 Xn;R65 Xi;R38 R67 N;R50/53
Skin Irrit. 2 - H315		
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Aquatic Acute 1 - H400		

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Aquatic Chronic 1 - H41	0		
BUTANONE		10-30%	
CAS number: 78-93-3	EC number: 201-159-0	REACH registration number: 01-	
		2119457290-43	
Classification		Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225		F;R11 Xi;R36 R66 R67	
Eye Irrit. 2 - H319			
STOT SE 3 - H336			
Hydrocarbons,C7-C9,n-alkanes,		10-30%	
isoalkanes,cyclics<0.1%benzene			
CAS number: —	EC number: 920-750-0	REACH registration number: 01-	
		2119473851-33	
Classification		Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225		Xn;R65. F;R11. N;R51/53. R66,R67.	
STOT SE 3 - H336			
Asp. Tox. 1 - H304			
Aquatic Chronic 2 - H41	1		
ACETONE		10-30%	
CAS number: 67-64-1	EC number: 200-662-2	REACH registration number: 01-	
		2119471330-49	
Classification		Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225		F;R11 Xi;R36 R66 R67	
Eye Irrit. 2 - H319			
STOT SE 3 - H336		40.000/	
ETHYL ACETATE	50 1 005 500 4	10-30%	
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01-	
Oleani Can Can		2119475103-46	
Classification		Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225		F;R11 Xi;R36 R66 R67	
Eye Irrit. 2 - H319			
STOT SE 3 - H336		.40/	
ROSIN	7 F.C. number: 222, 475, 7	<1%	
CAS number: 8050-09-7 EC number: 232-475-7			
Classification		Classification (67/548/EEC or 1999/45/EC)	
Skin Sens. 1 - H317		R43	

SECTION 4: First Aid Measures

4.1. Description of 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. Keep the affected person warm

and at rest. Get prompt medical attention.

Inhalation Remove affected person from source of contamination.

Move affected person to fresh air at once. If spray/mist has been inhaled, 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

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discomfort continues.

Ingestion 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 No specific recommendations. If in doubt, get medical

attention promptly.

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 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.

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.

SECTION 5: Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide or dry

powder.

Unsuitable extinguishing

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

media

fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Heating may generate flammable vapours. The product is

highly flammable. Vapours may form explosive mixtures

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with air. Vapours may accumulate on the floor and in low-

lying areas.

Hazardous combustion

products

Fire creates: Thermal decomposition or combustion may include the following substances: Irritating gases or vapours. Carbon monoxide (CO). Carbon dioxide (CO2).

Hydrogen chloride (HCI).

5.3. 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.

SECTION 6: Accidental Release Measures

6.1. 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,

Wear positive-pressure self-contained breathing apparatus

respirator, boots, clothing or apron, as appropriate.

For non-emergency

personnel

(SCBA) and appropriate protective clothing.

For emergency

Wear positive-pressure self-contained breathing apparatus

responders

(SCBA) and appropriate protective clothing.

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. Absorb spillage with sand or other

inert absorbent.

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6.4. Reference to other sections

Reference to other

Wear protective clothing as described in Section 8 of this

sections

safety data sheet.

SECTION 7: Handling and Storage

7.1. 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 water before leaving the work site. Avoid inhalation of vapours/spray and contact with skin and eyes

Advice on general occupational hygiene

Wash promptly with soap and water if skin becomes contaminated. Use appropriate hand lotion to prevent

defatting and cracking of skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store

in tightly-closed, original container in a dry, cool and well-

ventilated place.

Storage class Flammable liquid 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

CYCLOHEXANE

Long-term exposure limit (8-hour TWA): WEL 100 350 mg/m³ Short-term exposure limit (15-minute): WEL 300 1050 mg/m³

BUTANONE

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

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Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m3(Sk) Hydrocarbons,C7-C9,n-alkanes,isoalkanes,cyclics<0.1%benzene Long-term exposure limit (8-hour TWA): WEL 200 ppm 1,000 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

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm Short-term exposure limit (15-minute): WEL 400 ppm

ROSIN

Long-term exposure limit (8-hour TWA): WEL 0.05 mg/m³ Short-term exposure limit (15-minute): WEL 0.15 mg/m³

TOLUENE

Long-term exposure limit (8-hour TWA): 50 191 Short-term exposure limit (15-minute): 100 384

WEL = Workplace Exposure Limit

CYCLOHEXANE (CAS: 110-82-7)

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

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/kgSediment (Marinewater); 3.627 mg/kg

- Soil; 2.99 mg/kg

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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

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

Ingredient comments No exposure limits known for ingredient(s)

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/m³ Industry - Inhalation; Long term systemic effects: 2035 mg/m³

ACETONE (CAS: 67-64-1)

Ingredient comments WEL = Workplace Exposure Limits

DNEL 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 - 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/kgSediment (Marinewater); 3.04 mg/kg

Soil; 29.5 mg/kgSTP; 100 mg/l

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ETHYL ACETATE (CAS: 141-78-6)

DNEL Industry - Inhalation; Short term systemic effects: 1468 mg/m³

Industry - Inhalation; Short term local effects: 1468 mg/m³ Consumer - Inhalation; Short term systemic effects: 734 mg/m³ Consumer - Inhalation; Short term local effects: 734 mg/m³ Industry - Inhalation; Long term local effects: 734 mg/m³ Industry - Dermal; Long term systemic effects: 63 mg/kg/day Industry - Inhalation; Long term systemic effects: 734 mg/m³ Consumer - Dermal; Long term systemic effects: 37 mg/kg/day Consumer - Inhalation; Long term systemic effects: 367 mg/m³

PNEC - Fresh water; 0.26 mg/l

- Marine water; 0.026 mg/l

- Intermittent release; 1.65 mg/l

Sediment (Freshwater); 1.25 mg/kgSediment (Marinewater); 0.125 mg/kg

Soil; 0.24 mg/kgSTP; 650 mg/l

TOLUENE (CAS: 108-88-3)

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 Industry - Fresh water; 0.68 mg/l

Industry - Sediment (Freshwater); 16.39 mg/kg

Industry - STP; 13.61 mg/l Industry - Soil; 2.89 mg/kg

8.2. Exposure controls

Protective equipment

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Appropriate engineering

controls

Provide adequate ventilation. Avoid inhalation of

vapours. Observe any occupational exposure limits for the

product or ingredients.

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.

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 hands 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. If ventilation is inadequate, suitable

respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3. Contact with hot product can cause serious thermal burns.

Thermal hazards
Environmental exposure

controls

Keep container tightly sealed when not in use.

Reep container lightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Coloured gel. Colour Amber.

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Odour Organic solvents.
Odour threshold Not determined.
pH Not available.
Melting point Not applicable.

Flash point -17°C CC (Closed cup).

Evaporation rate Not available. Evaporation factor Not determined.

Upper/lower flammability Upper flammable/explosive limit: 13 Lower

or explosive limits flammable/explosive limit: 1

Vapour pressure Not available. Vapour density Not available.

Relative density 0.85 – 0.86 @ @ 20°C

Bulk density Not applicable.

Solubility(ies) Slightly soluble in water.

Partition coefficient
Auto-ignition temperature
Decomposition Temperature
Viscosity
Capabolic
Explosive properties
Oxidising properties
Not determined.
Not determined.
Not determined.
Not determined.
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 applicable.
Particle size Not available.
Molecular weight Not applicable.

Volatility Volatile.

Saturation concentration Not available.
Critical temperature Not determined.

Volatile organic compound This product contains a maximum VOC content of

684 g/litre.

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.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Not applicable.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

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.

10.6. Hazardous decomposition products

Hazardous decomposition Fire creates: Toxic gases/vapours/fumes of: Carbon

products monoxide (CO). Carbon dioxide (CO2). Hydrogen chloride

(HCI).

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD_{50}) Not determined.

ATE oral (mg/kg) 2,040.82

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

ATE dermal (mg/kg) 5,510.2

Acute toxicity - inhalation

Notes (inhalation LC_{50}) Not determined.

Skin corrosion/irritation

Human skin model test Not determined. Extreme pH Not determined.

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Serious eye damage/irritation

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 Extensive use of the product in areas with

inadequate ventilation may result in the

accumulation of hazardous vapour concentrations. May cause eye and respiratory system irritation. Symptoms following overexposure may include the

following: Headache. Vapours may cause

drowsiness and dizziness.

Ingestion May cause stomach pain or vomiting.

Skin contact Irritating to skin. May cause allergic contact eczema.

Eye contact Irritating to eyes.

Acute and chronic health

hazards

Route of entry Inhalation Skin absorption

Toxicological information on ingredients.

CYCLOHEXANE

Acute toxicity - oral

Acute toxicity oral (LD_{50} 12,705.0

mg/kg)

Species Rat ATE oral (mg/kg) 12,705.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000

mg/kg)

Species Rabbit

BUTANONE

Acute toxicity - oral

Acute toxicity oral (LD_{50} 2,500.0

mg/kg)

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Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,500.0

mg/kg)

Species Rabbit ATE dermal (mg/kg) 2,500.0

Acute toxicity – inhalation

Acute toxicity inhalation 5,000

(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours 5,000

mg/l)

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

Acute toxicity - oral

Acute toxicity oral (LD_{50} 5,850.0

mg/kg)

Species Rat ATE oral (mg/kg) 5,850.0

Acute toxicity – dermal

Acute toxicity dermal (LD_{50} 3,000.0

mg/kg)

Species Rabbit ATE dermal (mg/kg) 3,000.0

ACETONE

Acute toxicity - oral

Acute toxicity oral (LD_{50} 5,800.0

mg/kg)

Species Rat ATE oral (mg/kg) 5,800.0

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Acute toxicity - dermal

Acute toxicity dermal (LD₅₀

0

mg/kg)

7,400.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

76

(LC₅₀ vapours mg/l) Species

Rat

ATE inhalation (vapours

mg/l)

76

ETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀

4,100.0

mg/kg)

Species

Mouse

ATE oral (mg/kg)

4,100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀

1

mg/kg)

2,005.0

Species ATE dermal (mg/kg) Rabbit 2,005.0

Acute toxicity – inhalation

Acute toxicity inhalation

30.0

(LC₅₀ vapours mg/l)

Species

Rat

Notes (inhalation LC₅₀)

ATE inhalation (vapours

mg/l)

30

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Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig:

Negative

Reproductive toxicity

Reproductive toxicity - - NOAEL 16000 ppm, Inhalation, Rat P

fertility

Reproductive toxicity - - NOAEL: 20000 ppm, Inhalation, Rat

Development

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Conclusive data but not sufficient for classification.

Poly(2-chloro-1,3-butadiene)

Acute toxicity – oral

Acute toxicity oral (LD_{50} 7,800.0

mg/kg)

Species Rat ATE oral (mg/kg) 7,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,505.0

mg/kg)

Species Rabbit ATE dermal (mg/kg) 2,505

Acute toxicity – inhalation

Acute toxicity inhalation 2,300.0

(LC₅₀ dust/mist mg/l)

Species Mouse ATE inhalation 2,300.0

(dusts/mists mg/l)

Acute toxicity – oral

Acute toxicity oral (LD_{50} 6,000.0

mg/kg)

SECTION 12: Ecological Information

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Ecotoxicity Dangerous for the environment if discharged into

watercourses. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic

environment.

12.1. Toxicity

Acute toxicity – fish Not determined. Acute toxicity – aquatic Not determined.

invertebrates

Acute toxicity - aquatic plants Not determined. Acute toxicity - Not determined.

microorganisms

Acute toxicity – terrestrial Not determined. Chronic toxicity - fish early life Not determined.

stage

Short term toxicity – embryo

and sac fry stages

Chronic toxicity – aquatic Not determined.

Invertebrates

Ecological information on ingredients.

CYCLOHEXANE

Acute aquatic toxicity

 $LE(C)_{50}$ 0.1 < $L(E)C50 \le 1$

M factor (Acute) 1

Acute toxicity – fish LC50, 96 hours, 96 hours: 4.53 mg/l, Pimephales promelas

Not determined.

(Fat-head Minnow)

Acute toxicity – aquatic

invertebrates

EC₅₀, 48 hours, 48 hours: 31.9 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours, 72 hours: 3.4 mg/l, Selenastrum

capricornutum

Chronic aquatic toxicity

M factor (Chronic) 1

BUTANONE

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Acute toxicity – fish LC50, 96 hours, 96 hours: 2993 mg/l, Pimephales promelas

(Fat-head Minnow)

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

(Golden orfe)

Acute toxicity – aquatic

invertebrates

 EC_{50} , 48 hours, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 96 hours, 96 hours: 2029, Freshwater algae

Acute toxicity – Microorganisms

EC₅₀, 96 hours, 96 hours: > 50 mg/l, Activated sludge

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

Acute toxicity – fish

Acute toxicity – aquatic

Invertebrates

LC₅₀, 96 hours: 1-10 mg/l, Fish

EC₅₀, 48 hours: 10-100 mg/l, Daphnia magna

ACETONE

Acute toxicity – fish LC50, 96 hours, 96 hours: 5540 mg/l, Onchorhynchus

mykiss (Rainbow trout)

LC50, 96 hours, 96 hours: 8,300 mg/l, Lepomis

macrochirus (Bluegill)

LC₅₀, 96 hours: >100 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours, 48 hours: 8,800 mg/l, Daphnia magna

Acute toxicity – aquatic

plants

NOEC, 96 hours, 96 hours: 430 mg/l, Freshwater algae

IC₅₀, 72 hours: >100 mg/l, Algae

Chronic toxicity – aquatic

invertebrates

NOEC, 28 days, 28 days: 10-<100 mg/l, Freshwater

invertebrates

ETHYL ACETATE

Acute toxicity – fish LC50, 96 hours, 96 hours: 230 mg/l, Pimephales promelas

(Fat-head Minnow)

NOEC, 192 hours: < 9.65 mg/l, Pimephales promelas (Fat-

head Minnow)

Acute toxicity – aquatic

Acute toxicity – aquatic

Invertebrates

EC₅₀, 48 hours, 48 hours: 610 mg/l, Daphnia magna

NOEC, 192 hours, 192 hours: 2.4 mg/l, Daphnia magna EC₅₀, 48 hours, 48 hours: 5.600 mg/l, Freshwater algae

Plants

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12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

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

Ecological information on ingredients.

BUTANONE

Persistence and

degradability Biodegradation The product is biodegradable.

Air. - Degradation (%) 98: 28 days

readily biodegradable

ACETONE

Persistence and

degradability Biodegradation The product is readily biodegradable.

- Degradation (%): days readily biodegradable

- Degradation (%) 91: 28 days

readily biodegradable

Biological oxygen demand 1.9 g O₂/g substance Chemical oxygen demand 2.1 g O₂/g substance

nemical oxygen demand 2.1 g O₂/g substance

ETHYL ACETATE

Persistence and

degradability

The product is readily biodegradable.

Biodegradation - Degradation (%) 79: 20 days

readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

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BUTANONE

Bioaccumulative potential The product is not bioaccumulating.

ACETONE

Bioaccumulative potential The product is not bioaccumulating. BCF: < 10, Will not

accumulate

ETHYL ACETATE

Bioaccumulative potential The product does not contain any substances expected to

be bioaccumulating.

BCF: 30, Leuciscus idus (Golden orfe) readily

biodegradable

Partition coefficient log Pow: 0.73

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.

BUTANONE

Mobility The product contains volatile organic compounds (VOCs)

which will evaporate easily from all surfaces.

ETHYL ACETATE

Mobility The product contains volatile organic compounds (VOCs)

which will evaporate easily from all surfaces.

Adsorption/desorption

Coefficient

Soil - Koc: 1.43 @ 25°C

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12.5. Results of PBT and vPvB assessment

assessment

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

PBT or vPvB.

Ecological information on ingredients.

BUTANONE

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

assessment

PBT or vPvB.

ACETONE

assessment

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

PBT or vPvB.

ETHYL ACETATE

assessment

Results of PBT and vPvB 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 Consideration

13.1. 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.

SECTION 14: Transport Information

14.1. UN number

UN No. (ADR/RID) 1133 UN No. (IMDG) 1133 UN No. (ICAO) 1133

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A 139 MSDS CONTINUED

14.2. UN proper shipping name

Proper shipping name ADHESIVES (CYCLOHEXANE)

(ADR/RID)

Proper shipping name ADHESIVES (CYCLOHEXANE)

(IMDG)

Proper shipping name (ICAO) ADHESIVES (CYCLOHEXANE)
Proper shipping name (ADN) ADHESIVES (CYCLOHEXANE)

14.3. Transport hazard class(es)

ADR/RID class 3
ADR/RID subsidiary risk
ADR/RID label 3
IMDG class 3
IMDG subsidiary risk
ICAO class/division 3
ICAO subsidiary risk
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



14.6. Special precautions for user

EmS F-E, S-D Emergency Action Code •3YE Hazard Identification Number 33

(ADR/RID)

Tunnel restriction code (D/E)

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14.7. Transport in bulk according to Annex II of MARPOL73/78 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.

Control of Pollution Act 1974.

EU legislation System of specific information relating to Dangerous

Preparations. 2001/58/EC.

Guidance Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and

Preparations.

Authorisations (Title VII

Regulation 1907/2006)

Restrictions (Title VIII No specific restrictions on use are known for this

Regulation 1907/2006) product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other Information

Abbreviations and acronyms the safety data sheet

ADR: European Agreement concerning the used in International Transport of Dangerous Goods by

No specific authorisations are known for this product.

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

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A 139 MSDS CONTINUED

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
Revision comments

Revision date Revision

Risk phrases in full

Dangerous Properties of Industrial Materials Report,

N.Sax et.al.

NOTE: Lines within the margin indicate significant

changes from the previous revision.
Refer to date at bottom of sheet

erer to date at bottom of

R11 Highly flammable. R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R50/53 Very toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

R51/53 Toxic to aquatic organisms, may cause long-

term adverse effects in the aquatic

environment.

R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or

cracking.

R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full EUH208 Contains ROSIN. May produce an allergic

reaction.

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.

H336 May cause drowsiness or dizziness.

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.