SAFETY DATA SHEET



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

1.1. Product identifier

Product name Hypalon 2 part Adhesive (Part A)

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 Inflatex Ltd

Uxmore Barn, Uxmore Farm

Kit Lane Checkendon RG8 0TY

info@ribstore.co.uk

1.4. Emergency telephone number

Emergency telephone +44 1491 340010

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Elicitation - EUH208 Repr. 2 - H361d STOT SE 3 -

H336 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or Xn;R48/20. Repr. Cat. 3;R63. Xi;R36/38. F;R11. N;R51/53. R67.

1999/45/EC)

Human health Contains a substance/a group of substances which may damage the unborn child. The

product is irritating to eyes and skin.

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 The product is highly flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

Pictogram









Signal word Danger

Hazard statements EUH208 Contains ROSIN. May produce an allergic reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H361d Suspected of damaging the unborn child.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation. H225 Highly flammable liquid and vapour.

Precautionary statements P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapour/spray. P273 Avoid release to the environment.

P314 Get medical advice/attention if you feel unwell.

Contains TOLUENE, BUTANONE, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5%n-hexane

Supplementary precautionary

statements

P201 Obtain special instructions before use.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools. P260 Do not breathe 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.

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER/doctor 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.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P391 Collect spillage.

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

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

3.2. Mixtures

TOLUENE 30-60%

CAS number: 108-88-3 EC number: 203-625-9 REACH registration number:

012119471310-51

Classification (67/548/EEC or 1999/45/EC) F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67

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 10-30%

REACH registration number: 012119457290-43

Classification (67/548/EEC or 1999/45/EC)

F;R11 Xi;R36 R66 R67

Classification Flam. Liq. 2 - H225

Eye Irrit. 2 - H319 STOT SE 3 - H336

Hydrocarbons,C6-C7,n-alkanes,isoalkanes,cyclics,<5%n- 10-30% hexane

CAS number: — EC number: 921-024-6 REACH registration number: 01-

2119475514-35

Classification Classification (67/548/EEC or 1999/45/EC) Flam. Liq. 2 - H225 Xn;R65. Xi;R38. F;R11.

N;R51/53. R67. Skin Irrit. 2 - H315 STOT SE 3 - H336 Asp. Tox. 1 - H304

Aquatic Chronic 2 - H411

ZINC OXIDE <1%

CAS number: 1314-13-2 EC number: 215-222-5

M factor (Acute) = 1 M factor (Chronic) = 1

Classification (67/548/EEC or 1999/45/EC)

N;R50/53.

Classification

Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

ROSIN <1%

Classification (67/548/EEC or 1999/45/EC)

Skin Sens. 1 - H317 R43

6.6 -di- tert- butyl-2,2-methylenedi-p-cresol <1%

CAS number: 119-47-1 EC number: 204-327-1

Classification (67/548/EEC or 1999/45/EC)

Repr. Cat. 3;R62. R53.

Classification Repr. 2 - H361f

Aquatic Chronic 4 - H413

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information 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, 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.

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 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.

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

Specific treatments Treat symptomatically.

SECTION 5: Firefighting 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 fire.

media

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

Hazardous combustion

products

Thermal decomposition or combustion products 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 goggles, for firefighters

Wear chemical protective suit. Use air-supplied respirator, gloves and protective

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, 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.

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.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this 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 Wash promptly with soap and water if skin becomes contaminated. Use appropriate hand occupational hygiene 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. Store at temperatures between 5°C and

25°C.

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.

Usage description Adhesive.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters Occupational exposure limits

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)

ZINC OXIDE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ Short-term exposure limit (15-minute): WEL 10 mg/m³

ROSIN

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

HEXANE-norm

Long-term exposure limit (8-hour TWA): WEL 20 ppm 72 mg/m³

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

WEL = Workplace Exposure Limit

PNEC

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 - Fresh water; 0.68 mg/l

- Sediment (Freshwater); 16.39 mg/kg

- STP; 13.61 mg/l - Soil; 2.89 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

- Fresh water; 55.8 mg/l

Marine water; 55.8 mg/lIntermittent 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, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

DNEL

Consumer - Oral; Long term systemic effects: 699 mg/kg/day Industry - Oral; Long term systemic effects: 2035 mg/kg/day Consumer - Dermal; Long term systemic effects: 699 mg/kg/day

- Dermal; Long term systemic effects: 773 mg/kg/day

Consumer - Inhalation; Long term systemic effects: 608 mg/m³

8.2. 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 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. 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.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Amber.

Odour Organic solvents.

Odour threshold Not determined.

pH Not available.

Melting point Not applicable.

Flash point - 10°C CC (Closed cup).

Evaporation rate Not available.

Evaporation factor Not determined.

Upper/lower flammability or

explosive limits

Upper flammable/explosive limit: 11.5 Lower flammable/explosive limit: 0.9

Vapour pressure Not available.

Vapour density Not available.

Relative density 0.892 @ 20°C

Bulk density Not applicable.

Solubility(ies) Not determined. Insoluble in water. Soluble in the following materials: Organic solvents.

Partition coefficient Not determined.

Auto-ignition temperature Not determined.

Decomposition Temperature Not determined.

Viscosity 2500-3300 cP @ 20°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.

9.2. Other information

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 684 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Not applicable.

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 Thermal decomposition or combustion products may include the following substances:

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Not determined.

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Human skin model test Not determined.

Extreme pH Not determined.

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. Avoid contact during pregnancy/while nursing.

Inhalation Vapours may cause drowsiness and dizziness. May cause damage to organs through

prolonged or repeated exposure if inhaled.

Ingestion May cause stomach pain or vomiting.

Skin contact Irritating to skin. May produce an allergic reaction.

Eye contact Irritating to eyes. Causes serious eye irritation.

Acute and chronic health

hazards

Contains a substance/a group of substances which may damage the unborn child.

Route of entry Inhalation Skin absorption

Toxicological information on ingredients.

TOLUENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 6,000.0

mg/kg)

SAFETY DATA SHEET Page 9 of 18 Species Rat

ATE oral (mg/kg) 6,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 6,000.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 6,000.0

Acute toxicity - inhalation

Acute toxicity inhalation

21.0

(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours 21.0

mg/l)

BUTANONE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,500.0

mg/kg)

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

(LC₅₀ vapours mg/l)

5,000.0

Species Rat

ATE inhalation (vapours 5,000.0

mg/l)

<u>Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Acute toxicity - oral</u>

Acute toxicity oral (LD₅₀ 5,000.0

mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rabbit

6.6 -di- tert- butyl-2,2-methylenedi-p-cresol

Acute toxicity - oral

Acute toxicity oral (LD₅₀

mg/kg)

11,000.0

Species Rat

ATE oral (mg/kg) 11,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000.0

mg/kg)

Species Rabbit

SECTION 12: Ecological Information

Ecotoxicity Dangerous for the environment if discharged into watercourses. The product contains

a substance which is 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

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.

Ecological information on ingredients.

TOLUENE

Acute toxicity - fish LC50, 96 hours, 96 hours: 13 mg/l, Carassius auratus (Goldfish)

LC50, 96 hours, 96 hours: 24 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic EC_{50} , 48 hours, 48 hours: 11.5 mg/l, Daphnia magna invertebrates

Acute toxicity - aquatic

plants

IC₅₀, 72 hours, 72 hours: 12 mg/l, Selenastrum

capricornutum

Acute toxicity microorganisms

NOEC, : 29 mg/l, Activated sludge

<u>BUTANONE</u>

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

EC₅₀, 48 hours, 48 hours: > 100 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

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

Acute toxicity EC₅₀, 96 hours, 96 hours: > 50 mg/l, Activated sludge <u>Hydrocarbons, C6-C7,n-</u>

microorganisms <u>alkanes,isoalkanes,cyclics,<5%n-hexane</u>

Acute toxicity - fish NOEC, : 1 - 10 mg/l,

LC₅₀, 96 hours: 1 - 10 mg/l, Fish

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 10 - 100 mg/l, Algae

Acute toxicity

microorganisms

EC₅₀, : 1 - 10 mg/l, Activated sludge

ZINC OXIDE

Acute aquatic toxicity

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

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 1.1 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: > 1000 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: 0.1- 1 mg/l, Algae

Chronic aquatic toxicity

M factor (Chronic) 1

6.6 -di- tert- butyl-2,2-methylenedi-p-cresol

Acute toxicity - fish LC50, 48 hours, 48 hours: > 500 mg/l, Oryzias latipes (Red killifish)

 LC_{50} , 96 hours: > 50 mg/l, Fish

Acute toxicity microorganisms

EC₅₀, >: > 1,000 mg/l, Activated sludge

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.

TOLUENE

SAFETY DATA SHEET Page 12 of 18 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

Air. - Degradation (%) 98: 28 days

readily biodegradable

6.6 -di- tert- butyl-2,2-methylenedi-p-cresol

Biodegradation

- Degradation (%) 0: 28 days Not readily biodegradeable

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Not determined. Partition coefficient

Ecological information on ingredients.

TOLUENE

Bioaccumulative potential The product is not bioaccumulating. BCF: ,

BUTANONE

Bioaccumulative potential

The product is not bioaccumulating.

6.6 -di- tert- butyl-2,2-methylenedi-p-cresol

Bioaccumulative potential

BCF: 4597,

Partition coefficient

log Pow: 6.25

12.4. Mobility in soil

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

surfaces.

Adsorption/desorption Not determined. coefficient

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

SAFETY DATA SHEET Page 13 of 18

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

Ecological information on ingredients.

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

assessment

12.6. Other adverse effects

Other adverse effects Not known.

SECTION 13: Disposal considerations

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

14.2. UN proper shipping name

Proper shipping name ADHESIVES (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5%n-hexane) (ADR/RID)

Proper shipping name ADHESIVES (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5%n-hexane) (IMDG)

Proper shipping name (ICAO) ADHESIVES (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane) Proper

shipping name (ADN) ADHESIVES (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5%n-hexane)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID label 3

IMDG class 3

ICAO class/division 3

Transport labels



14.4. Packing group

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

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)

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

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and

the IBC Code

SECTION 15: Regulatory information

15.1. 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 Workplace Exposure Limits EH40.

Safety Data Sheets for Substances and Preparations.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title

Regulation 1907/2006)

VIIINo 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

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: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient.

LC₅₀: Lethal Concentration to 50 % of a test population.

LD₅₀: 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.

EC₅₀: 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.

Revision date 26/05/2016

Revision 8

Risk phrases in full R11 Highly flammable.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R38 Irritating to skin.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through

inhalation.

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.

R62 Possible risk of impaired fertility.

R63 Possible risk of harm to the unborn child. 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 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. H361d Suspected of damaging the unborn child.

H361f Suspected of damaging fertility.

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.

H413 May cause long lasting harmful effects to aquatic life.

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