

SAFETY DATA SHEET S 1358 High Heat Resistant Contact Adhesive

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

1.1. Product identifier

Product name S 1358 High Heat Resistant Contact Adhesive

Product number 1358-102, 1358-103, 1358-104, 1358-513, 1358-170

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

Identified uses High Heat Resistance Contact 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. Est.

Stourport-on-Severn Worcestershire DY13 9RH

01299 828626 01299 828666

sales@alpha-adhesives.co.uk

1.4. Emergency telephone number

Emergency telephone 44 (0) 1299 828626 (Available 08.30 to 17.00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Flam. Liq. 2 - H225

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Elicitation - EUH208 Repr. 2 - H361d STOT SE 3 -

H336 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or Xn;R48/20. Repr. Cat. 3;R63. Xi;R38. F;R11. R52/53,R67.

1999/45/EC)

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

Environmental The product contains a substance which is harmful 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

S 1358 High Heat Resistant Contact Adhesive

Pictogram







Signal word

Danger

Hazard statements

EUH208 Contains ROSIN. May produce an allergic reaction.

H361d Suspected of damaging the unborn child. H225 Highly flammable liquid and vapour. H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

H315 Causes skin irritation.

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

H302 Harmful if swallowed.

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

ACETATE

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. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P302+P352 IF ON SKIN: Wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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).

P330 Rinse mouth.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

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

P403+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

S 1358 High Heat Resistant Contact Adhesive

3.2. Mixtures

TOLUENE 30-60%

CAS number: 108-88-3 EC number: 203-625-9 REACH registration number: 01-

2119471310-51

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

Flam. Liq. 2 - H225 F;R11 Repr. Cat. 3;R63 Xn;R48/20,R65 Xi;R38 R67

Skin Irrit. 2 - H315 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373 Asp. Tox. 1 - H304

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

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

Asp. Tox. 1 - H304 STOT SE 3 - H336 STOT SE 3 - H336 Aquatic Chronic 2 - H411

ETHYL ACETATE 5-10%

CAS number: 141-78-6 EC number: 205-500-4 REACH registration number: 01-

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

ROSIN <1%

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

Skin Sens. 1 - H317 R43

S 1358 High Heat Resistant Contact Adhesive

XYLENE <1%

CAS number: 1330-20-7 EC number: 215-535-7 REACH registration number: 01-

2119488216-32

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

Flam. Lig. 3 - H226 R10 Xn;R20/21 Xi;R38

Acute Tox. 4 - H312 Acute Tox. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335

PARATERTIARYBUTYLPHENOL <1%

CAS number: 98-54-4 EC number: 202-679-0

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

 Skin Irrit. 2 - H315
 Repr. Cat. 3;R62. Xi;R37/38,R41. N;R51/53.

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Repr. 2 - H361f STOT SE 3 - H335

Aquatic Chronic 2 - H411

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

Composition comments

Polychloroprene based adhesive in petroleum solvent

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

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.

S 1358 High Heat Resistant Contact Adhesive

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: Firefighting measures

5.1. Extinguishing media

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

Unsuitable extinguishing

media

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

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

Fire creates: 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

for firefighters

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

clothing or apron, as appropriate.

For non-emergency personnel Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

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

S 1358 High Heat Resistant Contact Adhesive

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

TOLUENE

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

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

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³

HEXANE-norm

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

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

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

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

S 1358 High Heat Resistant Contact Adhesive

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

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

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/kg
Sediment (Marinewater); 0.125 mg/kg

Soil; 0.24 mg/kgSTP; 650 mg/l

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

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. Use explosion-proof general and local exhaust ventilation.

S 1358 High Heat Resistant Contact Adhesive

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.

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 -8°C CC (Closed cup).

Evaporation rate Not available.

Evaporation factor Not determined.

Upper/lower flammability or

explosive limits

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

Vapour pressure

Vapour density

Not available.

Relative density

0.88 @ 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.

S 1358 High Heat Resistant Contact Adhesive

Viscosity 5,500- - 6,500 cP @ °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 indexNot applicable.Particle sizeNot available.Molecular weightNot applicable.Saturation concentrationNot available.

Volatile organic compound This product contains a maximum VOC content of 632 g/litre.

Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Critical temperature

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

products

Fire creates: Thermal decomposition or combustion products may include the following substances: Flammable gases or vapours. 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.

ATE oral (mg/kg) 1,310.62

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

ATE dermal (mg/kg) 3,538.66

Acute toxicity - inhalation

S 1358 High Heat Resistant Contact Adhesive

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

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

Serious eye damage/irritation

Not determined. Serious eye damage/irritation

General information Prolonged and repeated contact with solvents over a long period may lead to permanent

health problems.

Inhalation Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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

prolonged or repeated exposure if inhaled.

Ingestion Harmful if swallowed.

Skin contact Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin.

Eye contact Particles in the eyes may cause irritation and smarting.

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

mg/kg)

6,000.0

Species

Rat

ATE oral (mg/kg) 6,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 6,000.0

mg/kg)

Species Rabbit

6,000.0 ATE dermal (mg/kg)

Acute toxicity - inhalation

Acute toxicity inhalation

21.0

21.0

(LC50 vapours mg/l)

Species Rat

ATE inhalation (vapours

mg/l)

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

Acute toxicity - oral

S 1358 High Heat Resistant Contact Adhesive

Acute toxicity oral (LD50

mg/kg)

5,000

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,000

mg/kg)

Species Rabbit

ETHYL ACETATE

Acute toxicity - oral

Acute toxicity oral (LD50

mg/kg)

4,100.0

Species Mouse

ATE oral (mg/kg) 4,100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,005.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,005.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

30.0

Species Rat

Notes (inhalation LC50)

ATE inhalation (vapours

30

mg/l)

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 -

development

- NOAEL: 20000 ppm, Inhalation, Rat

Specific target organ toxicity - repeated exposure

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

ROSIN

Acute toxicity - oral

S 1358 High Heat Resistant Contact Adhesive

Acute toxicity oral (LD₅o

mg/kg)

7,800.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,505.0

mg/kg)

Species Rabbit

ATE dermal (mg/kg) 2,505

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,050.0

mg/kg)

Species Rat

ATE oral (mg/kg) 2,050.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 2,700

mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

10.0

10.0

Species Rat

ATE inhalation (vapours

mg/l)

PARATERTIARYBUTYLPHENOL

Acute toxicity - oral

Acute toxicity oral (LD₅o

mg/kg)

5,660.0

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

S 1358 High Heat Resistant Contact Adhesive

EcotoxicityThe product contains a substance which is harmful 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

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

invertebrates

EC₅₀, 48 hours, 48 hours: 11.5 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

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

Acute toxicity - microorganisms

NOEC, : 29 mg/l, Activated sludge

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

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

EC₅o, : 1 - 10 mg/l, Activated sludge

ETHYL ACETATE

Acute toxicity - fish LC50, 96 hours, 96 hours: 230 mg/l, Pimephales promelas (Fat-head Minnow)

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

Minnow)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours, 48 hours: 610 mg/l, Daphnia magna NOEC, 192 hours, 192 hours: 2.4 mg/l, Daphnia magna

S 1358 High Heat Resistant Contact Adhesive

Acute toxicity - aquatic

plants

EC₅₀, 48 hours, 48 hours: 5,600 mg/l, Freshwater algae

ROSIN

Acute toxicity - fish LC₅₀, 96 hours: < 10 mg/l, Fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 911 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

IC₅₀, 72 hours: > 1,000 mg/l, Algae

Acute toxicity -

microorganisms

EC₅₀, 3 hours, 3 hours: > 10,000 mg/l, Activated sludge

XYLENE

Acute toxicity - fish LC50, 96 hours, 96 hours: 13.4 mg/l, Pimephales promelas (Fat-head Minnow)

LC50, 96 hours, 96 hours: < 11.9 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours, 48 hours: 81 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 48 hours, 48 hours: 110 mg/l, Freshwater algae

Acute toxicity - microorganisms

EC₅₀, 48 hours, 48 hours: 1000 mg/l, Activated sludge

PARATERTIARYBUTYLPHENOL

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

Acute toxicity - aquatic

invertebrates

EC₅o, 48 hours, 48 hours: > 3.5 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability The product is expected to be slowly biodegradable.

Phototransformation Not relevant.

Stability (hydrolysis)

Biodegradation

Biological oxygen demand

Chemical oxygen demand

Not determined.

Not determined.

Ecological information on ingredients.

TOLUENE

Persistence and degradability

The product is readily biodegradable.

Biodegradation - Degradation (%) 86: 20 days

readily biodegradable

S 1358 High Heat Resistant Contact Adhesive

Biological oxygen demand 1.23 g O₂/g substance

ETHYL ACETATE

Persistence and

degradability

The product is readily biodegradable.

Biodegradation - Degradation (%) 79: 20 days

readily biodegradable

ROSIN

Biodegradation Water and sediment - Degradation (%) 71: 28 days

readily biodegradable

XYLENE

Biodegradation Air. - Degradation (%) 60: > 28 days

readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

TOLUENE

Bioaccumulative potential The product is not bioaccumulating. BCF: ,

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 substances which may spread in the atmosphere.

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.

ETHYL ACETATE

S 1358 High Heat Resistant Contact Adhesive

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

easily from all surfaces.

Adsorption/desorption

coefficient

Soil - Koc: 1.43 @ 25°C

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

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

assessment

ETHYL ACETATE

Results of PBT and vPvB

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

assessment

XYLENE

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

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(ADR/RID)

Proper shipping name

ADHESIVES

(IMDG)

Proper shipping name (ICAO) ADHESIVES

Proper shipping name (ADN) ADHESIVES

14.3. Transport hazard class(es)

S 1358 High Heat Resistant Contact Adhesive

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 ||

IMDG packing group

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

33

No.

14.6. Special precautions for user

EmS F-E, S-D

Emergency Action Code •3YE

Hazard Identification Number

(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 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.

Safety Data Sheets for Substances and Preparations.

Authorisations (Title VII

Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIIINo specific restrictions on use are known for this product.

Regulation 1907/2006)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

S 1358 High Heat Resistant Contact Adhesive

Abbreviations and acronyms used in the safety data sheet ADR: European Agreement concerning the International Transport of Dangerous Goods by

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.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 29/04/2015

Revision 12

R10 Flammable. Risk phrases in full

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin.

R36 Irritating to eyes.

R37/38 Irritating to respiratory system and skin.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

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

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

R52/53 Harmful 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.

S 1358 High Heat Resistant Contact Adhesive

Hazard statements in full

EUH208 Contains ROSIN. May produce an allergic reaction.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory 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.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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.