SAFETY DATA SHEET ETK ACID TEST KIT

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name ETK ACID TEST KIT

Product number ETK

Container size 59.15mL

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

Identified uses Refrigeration Oil Acid Test Kit.

Uses advised againstNo specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier Parker Hannifin Ltd

Cortonwood Drive

Brampton Barnsley

South Yorkshire

S73 0UF

United Kingdom
Tel: +44 1226 273400
europecold@parker.com

1.4. Emergency telephone number

Emergency telephone CHEMTREC (CCN = 15692): (+1) 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 2 - H225

Health hazards Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Repr. 2 - H361d STOT SE 3 - H336 STOT RE 2 - H373

Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Pictogram







Signal word

Danger

Hazard statements H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.

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

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P201 Obtain special instructions before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

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

P331 Do NOT induce vomiting.

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

Rinse skin with water or shower.

P314 Get medical advice/ attention if you feel unwell. P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Toluene

Supplementary precautionary statements

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

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe vapour/ spray. P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

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.

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

P405 Store locked up.

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

Classification
Flam. Liq. 2 - H225
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Repr. 2 - H361d
STOT SE 3 - H336
STOT RE 2 - H373
Asp. Tox. 1 - H304

Ethanol 25 - <50% CAS number: 64-17-5 EC number: 200-578-6

Classification

Flam. Liq. 2 - H225 Eye Irrit. 2 - H319

Aquatic Chronic 3 - H412

 Methanol
 1 - <2.5%</td>

 CAS number: 67-56-1
 EC number: 200-659-6

 Classification

 Flam. Liq. 2 - H225

 Acute Tox. 3 - H301

 Acute Tox. 3 - H311

 Acute Tox. 3 - H331

 Potassium hydroxide
 0.025 - <0.25%</td>

 CAS number: 1310-58-3
 EC number: 215-181-3

Classification

Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318

STOT SE 1 - H370

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.

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Ingestion Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at

rest in a position comfortable for breathing. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing

can take place.

Skin contact Rinse with water.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 10 minutes.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue. If it is

suspected that volatile contaminants are still present around the affected person, first aid personnel should wear an appropriate respirator or self-contained breathing apparatus. Wash contaminated clothing thoroughly with water before removing it from the affected person, or wear gloves. 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 See Section 11 for additional information on health hazards. The severity of the symptoms

described will vary dependent on the concentration and the length of exposure.

Inhalation A single exposure may cause the following adverse effects: Headache. Nausea, vomiting.

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic

effect.

Ingestion Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis. May cause nausea, headache, dizziness and intoxication.

Skin contact Redness. Irritating to skin.

Eye contact Irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder

or water fog. Use fire-extinguishing media suitable for the surrounding fire.

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 Containers can burst violently or explode when heated, due to excessive pressure build-up.

Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in sewers may create fire or

explosion hazard.

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting

Avoid breathing fire gases or vapours. Evacuate area. Keep upwind to avoid inhalation of gases, vapours, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not touch or walk into spilled material. Keep unnecessary and unprotected personnel away from the spillage. No smoking, sparks, flames or other sources of ignition near spillage. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Wear protective clothing as described in Section 8 of this safety data sheet. Promptly remove any clothing that becomes contaminated. Ensure procedures and training for emergency decontamination and disposal are in place. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions

Avoid discharge into drains and the aquatic environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: Do not empty into drains. Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. For waste disposal, see Section 13. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Read and follow manufacturer's recommendations. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feeding stuffs. Wear protective clothing as described in Section 8 of this safety data sheet. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Handle all packages and containers carefully to minimise spills. In use may form flammable/explosive vapour-air mixture. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not reuse empty containers.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

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

up. Eliminate all sources of ignition. Take precautionary measures against static discharges. Keep away from oxidising materials, heat and flames. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

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): WEL 50 ppm 191 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 384 mg/m³ Sk

Ethanol

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

Methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm $\,$ 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm $\,$ 333 mg/m³ Sk

Potassium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³ WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilating equipment.

Eye/face protection

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. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. 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. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly.

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

AppearanceClear liquid.ColourColourless.OdourSolvent.

Odour threshold Not available.

pH Not available.

Melting point Not available.

Initial boiling point and range 77.8°C

Flash point 4.4°C Cleveland open cup.

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Evaporation rate <1 (butyl acetate = 1)

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 1.4% Upper flammable/explosive limit: 7.0%

Vapour pressure 19 mm Hg @ °C

Vapour density 1.6

Relative density 0.86

Solubility(ies) Not known.

Partition coefficient Not available.

Auto-ignition temperature Not available.

Viscosity Not applicable.

Explosive properties Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

Not available.

9.2. Other information

Decomposition Temperature

Volatile organic compound This product contains a maximum VOC content of 860 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See the other subsections of this section for further details.

10.2. Chemical stability

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

prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

The following materials may react strongly with the product: Oxidising agents.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition. Containers can burst violently or explode

when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Do not pressurise, cut, weld, drill, grind or otherwise expose containers to

heat or sources of ignition.

10.5. Incompatible materials

Materials to avoid Oxidising materials. Acids - oxidising.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD50) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 13,636.36

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Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 13,636.36

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 136.36

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisationBased on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicity Contains a substance which may be potentially carcinogenic. IARC Group 3 Not classifiable

as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure

STOT - single exposure STOT SE 3 - H336 May cause drowsiness or dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the

result if vomited material containing solvents reaches the lungs.

General information Avoid contact during pregnancy/while nursing. The severity of the symptoms described will

vary dependent on the concentration and the length of exposure.

Inhalation A single exposure may cause the following adverse effects: Headache. Nausea, vomiting.

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Narcotic

effect.

Ingestion Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis.

Skin contact Redness. Irritating to skin.

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Eye contact Irritating to eyes.

Route of exposure Ingestion Inhalation Skin and/or eye contact

Target organs Central nervous system

Toxicological information on ingredients.

Toluene

Acute toxicity - oral

Acute toxicity oral (LD₅o

5,580.0

mg/kg)

Species Rat

ATE oral (mg/kg) 5,580.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅o >5000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation

(LC50 vapours mg/l)

28.1

Species Rat

Notes (inhalation LC₅₀) 4 hours

ATE inhalation (vapours

28.1

mg/l)

Skin corrosion/irritation

Animal data Dose: 0.5 mL, 4 hours, Rabbit Erythema/eschar score: Well defined erythema (2).

Oedema score: Very slight oedema - barely perceptible (1). Irritating.

Serious eye damage/irritation

Serious eye

Causes eye irritation.

damage/irritation

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative.

Carcinogenicity

Carcinogenicity NOAEC 1200 ppm, Inhalation, Rat

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Reproductive toxicity

Reproductive toxicity -

Two-generation study - NOAEC 2000 ppm, Inhalation, Rat P Based on available data the classification criteria are not met.

fertility

Reproductive toxicity -

development

Suspected of damaging the unborn child.

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Specific target organ toxicity - single exposure

STOT SE 3 - H336 May cause drowsiness or dizziness. STOT - single exposure

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed.

Ethanol

Acute toxicity - oral

Acute toxicity oral (LD50

10,470.0

mg/kg)

Species Rat

Notes (oral LD50) Based on available data the classification criteria are not met.

10,470.0 ATE oral (mg/kg)

Acute toxicity - dermal

Acute toxicity dermal (LDso 15,800.0

mg/kg)

Rat **Species**

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 15,800.0

Acute toxicity - inhalation

Acute toxicity inhalation

21.0

(LC50 vapours mg/l)

Rat **Species**

Based on available data the classification criteria are not met. Notes (inhalation LC₅₀)

ATE inhalation (vapours

mg/l)

21.0

Skin corrosion/irritation

Animal data Dose: 0.2 mL, 24 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema

score: No oedema (0). Based on available data the classification criteria are not

met.

Serious eye damage/irritation

Serious eye Slightly irritating.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

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Germ cell mutagenicity

Genotoxicity - in vitroGene mutation: Negative. Based on available data the classification criteria are not

met.

Genotoxicity - in vivo Chromosome aberration: Negative. Based on available data the classification

criteria are not met.

Carcinogenicity

Carcinogenicity NOAEL >3000 mg/kg/day, Oral, Rabbit Based on available data the classification

criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEL 15 %, Oral, Mouse P Based on available data the

classification criteria are not met.

Reproductive toxicity - development

Teratogenicity: - NOAEL: >20000 ppm, Inhalation, Rat Based on available data the

classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not anticipated to present an aspiration hazard, based on chemical structure.

Methanol

Acute toxicity - oral

Notes (oral LD50) International Programme on Chemical Safety (IPCS) (1997) Environmental Health

Criteria 196: Methanol. Geneva, World Health Organization. Toxic if swallowed.

ATE oral (mg/kg) 300.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Converted acute toxicity point estimate (cATpE) Toxic in contact with skin.

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Converted acute toxicity point estimate (cATpE) Toxic if inhaled.

ATE inhalation (vapours

mg/l)

3.0

Skin corrosion/irritation

Animal data Dose: 2.5cm x 2.5cm, 20 hours, Rabbit Erythema/eschar score: No erythema (0).

Oedema score: No oedema (0). REACH dossier information. Based on available

data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation

Dose: 0.05 ml, 24 hours, Rabbit REACH dossier information. Based on available

data the classification criteria are not met.

Skin sensitisation

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Skin sensitisation Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. REACH dossier

information. Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative. Based on available data the classification criteria are not

Chromosome aberration: Negative. Based on available data the classification Genotoxicity - in vivo

criteria are not met.

Carcinogenicity

Carcinogenicity NOAEC >1.3 mg/l, Inhalation, Mouse Based on available data the classification

criteria are not met.

Reproductive toxicity

Reproductive toxicity -

fertility

Two-generation study - NOAEC 1.3 mg/l, Inhalation, Rat P REACH dossier information. Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Maternal toxicity: - NOAEL: 5000 mg/kg/day, Oral, Mouse Teratogenicity: - LOAEL: 5000 mg/kg/day, Oral, Mouse REACH dossier information. Based on available data

the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT SE 1 - H370 STOT - single exposure

Eyes Central nervous system Target organs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard Not relevant.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

Toluene

Toxicity Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 5.5 mg/l, Oncorhynchus kisutch (Coho salmon)

REACH dossier information.

Acute toxicity - aquatic

LC₅₀, 48 hours: 3.78 mg/l, Ceriodaphnia dubia

invertebrates

REACH dossier information.

Acute toxicity - aquatic

EC₅₀, 72 hours: 207 mg/l, Chlorella vulgaris

plants

REACH dossier information.

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 40 days: 1.39 mg/l, Oncorhynchus kisutch (Coho salmon)

life stage

REACH dossier information.

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Chronic toxicity - aquatic

NOEC, 7 days: 0.74 mg/l, Ceriodaphnia dubia

invertebrates REACH dossier information.

Ethanol

Based on available data the classification criteria are not met. **Toxicity**

Acute aquatic toxicity

LC₅₀, 48 hours: >100 mg/l, Leuciscus idus (Golden orfe) Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 12.34 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 48 hours: >100 mg/l, Selenastrum capricornutum

Methanol

Aquatic toxicity is unlikely to occur. Based on available data the classification **Toxicity**

criteria are not met.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)

EC₅₀, 96 hours: 12700 mg/l, Lepomis macrochirus (Bluegill)

REACH dossier information.

Acute toxicity - aquatic

invertebrates

EC₅₀, 96 hours: 18260 mg/l, Daphnia magna

REACH dossier information.

Acute toxicity - aquatic

plants

EC₅₀, 96 hours: ~ 22000 mg/l, Pseudokirchneriella subcapitata

REACH dossier information.

Acute toxicity -IC₅₀, 3 hours: >1000 mg/l, Activated sludge

microorganisms REACH dossier information.

Chronic aquatic toxicity

Chronic toxicity - fish early NOEC, 200 hours: 7900 mg/l, Oryzias latipes (Red killifish)

REACH dossier information. life stage

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Ecological information on ingredients.

Toluene

Persistence and

degradability

The substance is readily biodegradable.

Phototransformation Water - DT₅₀: 2.59 days

Estimated value.

Biodegradation Water - Degradation 86%: 20 days

Ethanol

Persistence and

degradability

The substance is readily biodegradable.

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Phototransformation The product is degraded completely by photochemical oxidation.

Biodegradation - DT₅₀: <10 days

Methanol

Phototransformation Water - DT₅₀: 17.2 days

REACH dossier information.

Biodegradation Water - Degradation (95%): 20 days

Water - Degradation (91%): 15 days Water - Degradation (88%): 10 days Water - Degradation (76%): 5 days

REACH dossier information.

The substance is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient Not available.

Ecological information on ingredients.

Toluene

Bioaccumulative potential BCF: 90, Leuciscus idus (Golden orfe)

Partition coefficient log Pow: 2.73

Ethanol

Bioaccumulative potential The product is not bioaccumulating.

Methanol

Bioaccumulative potential BCF: 4.5, Cyprinus carpio (Common carp)

Partition coefficient log Pow: -0.77 REACH dossier information.

12.4. Mobility in soil

Mobility

No data available. The product contains organic solvents which will evaporate easily from all

surfaces.

Ecological information on ingredients.

Toluene

Mobility The product is soluble in water.

Ethanol

Mobility Volatile liquid. Soluble in water.

Methanol

Mobile.

Adsorption/desorption

coefficient

Soil - Koc: 0.13-0.61 @ 6°C

Henry's law constant 0.461 Pa m³/mol @ 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 assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

Ethanol

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

Methanol

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

12.6. Other adverse effects

Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Reuse or recycle products wherever possible. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Vapour from residual product may create a highly flammable or explosive atmosphere inside the container. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not cut or weld used containers unless they have been thoroughly cleaned internally.

SECTION 14: Transport information

General For limited quantity packaging/limited load information, consult the relevant modal

documentation using the data shown in this section.

14.1. UN number

UN No. (ADR/RID) 1993

UN No. (IMDG) 1993

UN No. (ICAO) 1993

UN No. (ADN) 1993

14.2. UN proper shipping name

Proper shipping name FLAMMABLE LIQUID, N.O.S. (CONTAINS Toluene, Ethanol)

(ADR/RID)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (CONTAINS Toluene, Ethanol)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (CONTAINS Toluene, Ethanol)

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (CONTAINS Toluene, Ethanol)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

ADN packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

IMDG Code segregation 8. Hypochlorites

group

EmS F-E, S-E

ADR transport category 2

Emergency Action Code •3YE

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (D/E)

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

33

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 Health and Safety at Work etc. Act 1974 (as amended).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EH40/2005 Workplace exposure limits.

EU legislation 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).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

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).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

IATA: International Air Transport Association.

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

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate.

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

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC₅₀: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations

and acronyms

Flam. Liq. = Flammable liquid Asp. Tox. = Aspiration hazard

Eye Irrit. = Eye irritation Repr. = Reproductive toxicity Skin Irrit. = Skin irritation

STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

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

Classification procedures according to Regulation (EC)

H319: Repr. 2 - H361d: : Calculation method. Aquatic Chronic 3 - H412: : Calculation method.

1272/2008

Flam. Liq. 2 - H225: : Expert judgement.

Training adviceRead and follow manufacturer's recommendations. Only trained personnel should use this

material.

Revision date 12/10/2017

Revision 8

Supersedes date 28/07/2015

SDS number 5931

Hazard statements in full H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed. H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child.

H370 Causes damage to organs.

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

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.