

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

1.1. Product identifier

Trade name or designation of the mixture Corrosion inhibitor

Registration number -

Synonyms None.

Product code UDS000522BU

Issue date 08-November-2022

Version number 1.0

Revision date 08-November-2022

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

Identified uses Anti Corrosion Products

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name CRC Industries UK Ltd.

Address
Wylds Road
Castlefield Industrial Estate
TA6 4DD Bridgwater Somerset
United Kingdom

Telephone +44 1278 727200

Fax +44 1278 425644

E-mail hse.uk@crcind.com

Website www.crcind.com

Company name CRC Industries Europe bv

Address
Touwslagerstraat 1
9240 Zele
Belgium

Telephone +32(0)52/45.60.11

Fax +32(0)52/45.00.34

E-mail hse@crcind.com

Website www.crcind.com

1.4. Emergency telephone number Tel.:(+44)(0)1278 72 7200 (office hours: 9-17h GMT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

| | | |
|-------------------|------------|-------------------------------------|
| Flammable liquids | Category 3 | H226 - Flammable liquid and vapour. |
|-------------------|------------|-------------------------------------|

Health hazards

| | | |
|-----------------------------------|------------|---------------------------------------|
| Serious eye damage/eye irritation | Category 2 | H319 - Causes serious eye irritation. |
|-----------------------------------|------------|---------------------------------------|

| | | |
|-------------------|------------|--|
| Aspiration hazard | Category 1 | H304 - May be fatal if swallowed and enters airways. |
|-------------------|------------|--|

Environmental hazards

| | | |
|--|------------|---|
| Hazardous to the aquatic environment, long-term aquatic hazard | Category 2 | H411 - Toxic to aquatic life with long lasting effects. |
|--|------------|---|

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended**Contains:** Hydrocarbons, C10-C12, Isoalkanes, less than 2% aromatics**Hazard pictograms****Signal word** Danger**Hazard statements**

H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H319 Causes serious eye irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements**Prevention**

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P273 Avoid release to the environment.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
 P331 Do NOT induce vomiting.

Storage

P405 Store locked up.

Disposal

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

Supplemental label information

EUH066 - Repeated exposure may cause skin dryness or cracking.
 EUH208 - Contains Benzene, mono-C10-13 alkyl derivs, distsulfonated. May produce an allergic reaction.

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | Index No. | Notes |
|---|----------|----------------------------|------------------------|--------------|-------|
| Hydrocarbons, C10-C12, Isoalkanes, less than 2% aromatics | 60 - 100 | - 923-037-2 | 01-2119471991-29 | - | |
| Classification: Flam. Liq. 3;H226, Asp. Tox. 1;H304, Aquatic Chronic 2;H411 | | | | | |
| Dipropylene glycol monomethyl ether | 1 - 5 | 34590-94-8 252-104-2 | 01-2119450011-60 | - | # |
| Classification: - | | | | | |
| ethanol; ethyl alcohol | 1 - 5 | 64-17-5 200-578-6 | 01-2119457610-43 | 603-002-00-5 | # |
| Classification: Flam. Liq. 2;H225, Eye Irrit. 2;H319 | | | | | |
| 1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- | 0 - 1 | 95-38-5 202-414-9 | 01-2119777867-13 | - | |
| Classification: Acute Tox. 4;H302, Skin Corr. 1C;H314, Eye Dam. 1;H318, STOT RE 2;H373, Aquatic Acute 1;H400(M=10), Aquatic Chronic 1;H410(M=10) | | | | | |
| Benzene, mono-C10-13 alkyl derivs, distsulfonated | <1.0 | EC947-582-0-1 947-582-0 | 01-2120767409-42 | - | |
| Classification: Skin Sens. 1B;H317 | | | | | |
| Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)- | 0 - 1 | 110-25-8 203-749-3 | 01-2119488991-20 | - | |
| Classification: Acute Tox. 4;H332, Skin Irrit. 2;H315, Eye Dam. 1;H318, Aquatic Acute 1;H400 | | | | | |

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

ATE: Acute toxicity estimate.

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control centre immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and delayed Aspiration may cause pulmonary oedema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Flammable liquid and vapour.

5.1. Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

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 Vapours may form explosive mixtures with air. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).
Storage class (TRGS 510): 3 (Flammable liquids)

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

UK. EH40 Workplace Exposure Limits (WELs)

| Components | Type | Value |
|--|------|------------------------|
| Dipropylene glycol monomethyl ether (CAS 34590-94-8) | TWA | 308 mg/m ³ |
| | | 50 ppm |
| ethanol; ethyl alcohol (CAS 64-17-5) | TWA | 1920 mg/m ³ |
| | | 1000 ppm |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General population

| Components | Value | Assessment factor | Notes |
|--|------------------------|-------------------|------------------------------|
| Dipropylene glycol monomethyl ether (CAS 34590-94-8) | | | |
| Long-term, Systemic, Dermal | 121 mg/kg bw/day | 16.8 | Repeated dose toxicity |
| Long-term, Systemic, Inhalation | 37.2 mg/m ³ | | Repeated dose toxicity |
| Long-term, Systemic, Oral | 0.33 mg/kg bw/day | 600 | Repeated dose toxicity |
| ethanol; ethyl alcohol (CAS 64-17-5) | | | |
| Long-term, Systemic, Dermal | 206 mg/kg bw/day | 40 | Repeated dose toxicity |
| Long-term, Systemic, Oral | 87 mg/kg bw/day | 20 | Repeated dose toxicity |
| Short-term, Local, Inhalation | 950 mg/m ³ | | respiratory tract irritation |

Workers

| Components | Value | Assessment factor | Notes |
|---|------------------------|-------------------|------------------------|
| 1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5) | | | |
| Long-term, Systemic, Dermal | 0.06 mg/kg | 300 | Repeated dose toxicity |
| Long-term, Systemic, Inhalation | 0.46 mg/m ³ | 75 | Repeated dose toxicity |
| Short-term, Systemic, Dermal | 2 mg/kg | 10 | Repeated dose toxicity |
| Short-term, Systemic, Inhalation | 14 mg/m ³ | 2.5 | Repeated dose toxicity |

| | | | | |
|--|------------------------|-------|------------------------------|--|
| Dipropylene glycol monomethyl ether (CAS 34590-94-8) | | | | |
| Long-term, Systemic, Dermal | 283 mg/kg bw/day | 10.08 | Repeated dose toxicity | |
| Long-term, Systemic, Inhalation | 308 mg/m ³ | | Repeated dose toxicity | |
| ethanol; ethyl alcohol (CAS 64-17-5) | | | | |
| Long-term, Systemic, Dermal | 343 mg/kg bw/day | 24 | Repeated dose toxicity | |
| Long-term, Systemic, Inhalation | 950 mg/m ³ | | | |
| Short-term, Local, Inhalation | 1900 mg/m ³ | | respiratory tract irritation | |

Predicted no effect concentrations (PNECs)

| Components | Value | Assessment factor | Notes |
|---|-------------|-------------------|-------|
| 1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5) | | | |
| Freshwater | 0 mg/l | 1000 | |
| Marine water | 0 mg/l | 10000 | |
| Sediment (freshwater) | 0.376 mg/kg | | |
| Sediment (marine water) | 0.038 mg/kg | | |
| Soil | 0.075 mg/kg | | |
| STP | 0.27 mg/l | 100 | |
| Dipropylene glycol monomethyl ether (CAS 34590-94-8) | | | |
| Freshwater | 19.2 mg/l | 100 | |
| Intermittent releases | 192 mg/l | 10 | |
| Marine water | 1.92 mg/l | 1000 | |
| Sediment (freshwater) | 70.2 mg/kg | | |
| Soil | 2.74 mg/kg | | |
| ethanol; ethyl alcohol (CAS 64-17-5) | | | |
| Freshwater | 0.96 mg/l | 10 | |
| Sediment (marine water) | 2.9 mg/kg | | |
| Soil | 0.63 mg/kg | 1000 | |

Exposure guidelines

UK EH40 WEL: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

8.2. Exposure controls

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection conforming to EN 166.

Skin protection

- Hand protection When handling the product wear chemical-resistant gloves (standard EN 374). The breakthrough time of the glove should be longer than the total duration of product use. If work lasts longer than the breakthrough time, gloves should be changed part-way through. Nitrile gloves are recommended. Suitable gloves can be recommended by the glove supplier.

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapour cartridge and full facepiece. (Filter type A)

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

| | |
|----------------|----------------|
| Physical state | Liquid. |
| Form | Not available. |

| | |
|---|-------------------------------|
| Colour | Brown. |
| Odour | Characteristic odor. |
| Odour threshold | Not available. |
| pH | Not available. |
| Melting point/freezing point | Not available. |
| Initial boiling point and boiling range | 77 °C (170.6 °F) |
| Flash point | 39.0 °C (102.2 °F) Closed cup |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not available. |
| Upper/lower flammability or explosive limits | |
| Explosive limit - lower (%) | 0.6 % |
| Explosive limit – upper (%) | 19 % |
| Vapour pressure | Not available. |
| Vapour density | Not available. |
| Relative density | 0.81 g/cm ³ 20 °C |
| Solubility(ies) | |
| Solubility (water) | Insoluble in water |
| Partition coefficient (n-octanol/water) | Not available. |
| Auto-ignition temperature | > 200 °C (> 392 °F) |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |

9.2. Other information

VOC 583 g/l

SECTION 10: Stability and reactivity

| | |
|---|--|
| 10.1. Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| 10.2. Chemical stability | Material is stable under normal conditions. |
| 10.3. Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| 10.4. Conditions to avoid | Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. |
| 10.5. Incompatible materials | Strong oxidising agents. |
| 10.6. Hazardous decomposition products | Not available. |

SECTION 11: Toxicological information

| | |
|---|--|
| General information | Occupational exposure to the substance or mixture may cause adverse effects. |
| Information on likely routes of exposure | |
| Inhalation | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful. |
| Skin contact | May cause an allergic skin reaction. |
| Eye contact | Causes serious eye irritation. |
| Ingestion | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |
| Symptoms | Aspiration may cause pulmonary oedema and pneumonitis. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. |
| 11.1. Information on toxicological effects | |
| Acute toxicity | May be fatal if swallowed and enters airways. |

| Components | Species | Test Results |
|---|---|--------------------------|
| 1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5) | | |
| Acute | | |
| Oral | | |
| LD50 | Rat | 1265 mg/kg |
| Dipropylene glycol monomethyl ether (CAS 34590-94-8) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | 9510 mg/kg |
| Oral | | |
| LD50 | Rat | 5000 mg/kg |
| ethanol; ethyl alcohol (CAS 64-17-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Rabbit | > 15800 mg/kg |
| Inhalation | | |
| LC50 | Rat | 116.8 - 133.8 mg/l, 4 h |
| Oral | | |
| LD50 | Rat | 10470 mg/kg |
| Hydrocarbons, C10-C12, Isoalkanes, less than 2% aromatics | | |
| Acute | | |
| Dermal | | |
| LD50 | Rat | 5000 mg/kg |
| Inhalation | | |
| LC50 | Rat | > 5000 mg/m ³ |
| Oral | | |
| LD50 | Rat | 5000 mg/kg |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | |
| Respiratory sensitisation | Based on available data, the classification criteria are not met. | |
| Skin sensitisation | Based on available data, the classification criteria are not met. | |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. | |
| Carcinogenicity | Based on available data, the classification criteria are not met. | |
| Reproductive toxicity | Based on available data, the classification criteria are not met. | |
| Specific target organ toxicity - single exposure | Based on available data, the classification criteria are not met. | |
| Specific target organ toxicity - repeated exposure | Based on available data, the classification criteria are not met. | |
| Aspiration hazard | May be fatal if swallowed and enters airways. | |
| Mixture versus substance information | Not available. | |
| Other information | May cause allergic respiratory and skin reactions. | |

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

| Components | Species | Test Results |
|---|---------|---|
| 1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (CAS 95-38-5) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Algae 0.03 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia magna 0.136 mg/l, 48 hours |
| Fish | LC50 | (Brachydanio rerio) 0.3 mg/l, 96 hours |

| Components | Species | Test Results |
|---|---------|---|
| Dipropylene glycol monomethyl ether (CAS 34590-94-8) | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | EC50 | Algae 969 mg/l, 96 h |
| Crustacea | EC50 | Daphnia 1919 mg/l, 48 h |
| Fish | LC50 | Fish 10000 mg/l, 96 h |
| ethanol; ethyl alcohol (CAS 64-17-5) | | |
| <i>Acute</i> | | |
| | EC50 | Selenastrum capricornutum (new name Pseudokirchneriella subcapitata) > 100 mg/l, 48 hours |
| Aquatic | | |
| <i>Acute</i> | | |
| Crustacea | EC50 | Daphnia magna 12340 mg/l, 48 hours |
| Fish | LC50 | Leuciscus idus > 100 mg/l, 48 hours |
| | | Oncorhynchus mykiss 13000 mg/l, 96 hours |
| | | Oryzias latipes 12000 - 16000 mg/l, 96 hours |
| | | Pimephales promelas 14200 mg/l, 96 hours |
| <i>Chronic</i> | | |
| Crustacea | NOEC | Daphnia magna 9.6 mg/l, 9 days |
| Hydrocarbons, C10-C12, Isoalkanes, less than 2% aromatics | | |
| Aquatic | | |
| <i>Acute</i> | | |
| Algae | NOEC | Algae 1000 mg/l, 72 hours |
| Crustacea | EC50 | Daphnia 1000 mg/l, 48 hours |
| Fish | LC0 | Fish 1000 mg/l, 96 hours |
| <i>Chronic</i> | | |
| Crustacea | NOEC | Daphnia < 1 mg/l, 21 days |

12.2. Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

| | |
|---|-------|
| Dipropylene glycol monomethyl ether | 0.004 |
| ethanol; ethyl alcohol | -0.31 |
| Hydrocarbons, C10-C12, Isoalkanes, less than 2% aromatics | > 4 |

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|-------------------------------------|--|
| Residual waste | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. |
| EU waste code | The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Disposal methods/information | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Special precautions | Dispose in accordance with all applicable regulations. |

SECTION 14: Transport information

ADR

| | |
|------------------------------------|--|
| 14.1. UN number | UN3295 |
| 14.2. UN proper shipping name | HYDROCARBONS, LIQUID, N.O.S. (isodecanes, undecanes) |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Hazard No. (ADR) | Not assigned. |
| Tunnel restriction code | D/E |
| ADR/RID - Classification code: | F1 |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | Yes |
| 14.6. Special precautions for user | Not assigned. |

RID

| | |
|------------------------------------|--|
| 14.1. UN number | UN3295 |
| 14.2. UN proper shipping name | HYDROCARBONS, LIQUID, N.O.S. (isodecanes, undecanes) |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Label(s) | 3 |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | Yes |
| 14.6. Special precautions for user | Not assigned. |

ADN

| | |
|------------------------------------|--|
| 14.1. UN number | UN3295 |
| 14.2. UN proper shipping name | HYDROCARBONS, LIQUID, N.O.S. (isodecanes, undecanes) |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| Label(s) | 3 |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | Yes |
| 14.6. Special precautions for user | Not assigned. |

IATA

| | |
|------------------------------------|--|
| 14.1. UN number | UN3295 |
| 14.2. UN proper shipping name | HYDROCARBONS, LIQUID, N.O.S. (isodecanes, undecanes) |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | Yes |
| 14.6. Special precautions for user | Not assigned. |

IMDG

| | |
|------------------------------------|--|
| 14.1. UN number | UN3295 |
| 14.2. UN proper shipping name | HYDROCARBONS, LIQUID, N.O.S. (isodecanes, undecanes), MARINE POLLUTANT |
| 14.3. Transport hazard class(es) | |
| Class | 3 |
| Subsidiary risk | - |
| 14.4. Packing group | III |
| 14.5. Environmental hazards | |
| Marine pollutant | Yes |
| EmS | F-E,S-D |
| 14.6. Special precautions for user | Not assigned. |

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Retained direct EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

ethanol; ethyl alcohol (CAS 64-17-5)

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ethanol; ethyl alcohol (CAS 64-17-5)

Other regulations

Not available.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate according to REGULATION (EC) No 1272/2008 (CLP).
CAS: Chemical Abstract Service.
Ceiling: Short Term Exposure Limit Ceiling value.
CEN: European Committee for Standardization.
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
GWP: Global Warming Potential.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG: International Maritime Dangerous Goods.
MAK: Threshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG).
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative and toxic.
REACH: Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation, Authorization and Restriction of Chemicals).
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TLV: Threshold Limit Value.
TWA: Time Weighted Average.
VOC: Volatile organic compounds.
vPvB: Very persistent and very bioaccumulative.
STEL: Short-term Exposure Limit.

References

Not available.

Information on evaluation method leading to the classification of mixture

Not available.

Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
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.

Revision information

None.

Training information

Not available.

Disclaimer

CRC Industries Europe UK Limited cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC. The products are governed by Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP); Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (in each case, as amended and replaced) and other applicable laws. It is an importers or downstream users responsibility to ensure compliance of product they import. An SDS provided in the official language(s) of a country is not a guarantee of compliance in that country.