CIRCLE INGREDIENTS B.V.

# Formaldehyde 37%

Safety Data Sheet

according to Regulation (EU) 2015/830

Issue date: 8-6-2017 Revision date: 29-10-2020 Supersedes version of: 8-6-2017 Version: 1.1

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product name | : | Formaldehyde 37% |
| EC-No. | : | 200-001-8 |
| CAS-No. | : | 50-00-0 |
| REACH registration No | : | 01-2119488953-20-xxxx |

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

#### 1.2.1. Relevant identified uses

| | | |
|---|---|---|
| Use of the substance/mixture | : | Raw material<br>Industrial use |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Circle Ingredients B.V.
Herenweg 115
2105 MG Heemstede - Nederland
T +31 23 303 8510
info@circleingredients.com - www.circleingredients.com

### 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust | Avonley Road<br>SE14 5ER London | +44 20 7188 7188 | |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

| | |
|---|---|
| Acute toxicity (oral), Category 3 | H301 |
| Acute toxicity (dermal), Category 3 | H311 |
| Acute toxicity (inhalation:vapour) Category 2 | H330 |
| Skin corrosion/irritation, Category 1, Sub-Category 1B | H314 |
| Serious eye damage/eye irritation, Category 1 | H318 |
| Skin sensitisation, Category 1 | H317 |
| Germ cell mutagenicity, Category 2 | H341 |
| Carcinogenicity, Category 1B | H350 |
| Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation | H335 |
| Specific target organ toxicity — Single exposure, Category 2 | H371 |

Full text of H statements : see section 16

**Adverse physicochemical, human health and environmental effects**

May cause cancer. Suspected of causing genetic defects. May cause damage to organs. Fatal if inhaled. Toxic in contact with skin. Toxic if swallowed. May cause respiratory irritation. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage.

## 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :

GHS05 GHS06 GHS08

Signal word (CLP) : Danger

Contains : formaline 37%; Methanol

Hazard statements (CLP) : H301+H311 - Toxic if swallowed or in contact with skin.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H330 - Fatal if inhaled.
H335 - May cause respiratory irritation.
H341 - Suspected of causing genetic defects (if inhaled, if swallowed, oral).
H350 - May cause cancer (in contact with skin, if inhaled, if swallowed, oral).
H371 - May cause damage to organs (eyes) (if inhaled, if swallowed).

Precautionary statements (CLP) : P270 - Do not eat, drink or smoke when using this product.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER, a doctor.

## 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| formaline 37% | (CAS-No.) 50-00-0<br>(EC-No.) 200-001-8<br>(REACH-no) 01-2119488953-20-xxxx | 35 – 50 | Carc. 2, H351<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Oral), H301<br>STOT SE 2, H371<br>STOT SE 2, H371<br>STOT SE 2, H371<br>Skin Corr. 1B, H314<br>STOT SE 3, H335<br>Skin Sens. 1, H317 |
| Methanol | (CAS-No.) 67-56-1<br>(EC-No.) 200-659-6<br>(EC Index-No.) 603-001-00-X<br>(REACH-no) 01-2119433307-44-xxxx | 3 – 10 | Flam. Liq. 2, H225<br>Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>STOT SE 1, H370 |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.

First-aid measures after skin contact : Remove clothing while washing. Do not apply (chemical) neutralizing agents. Wash immediately with lots of water (15 minutes)/shower. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.

First-aid measures after eye contact : Do not apply neutralizing agents. Take victim to an ophthalmologist. Rinse immediately with plenty of water for 15 minutes.

First-aid measures after ingestion : Do not induce vomiting. Immediately after ingestion: give lots of water to drink. Rinse mouth with water. Immediately consult a doctor/medical service. Take the container/vomit to the doctor/hospital. Ingestion of large quantities: immediately to hospital. Doctor: gastric lavage.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Runny nose. Coughing. Irritation of the respiratory tract. Irritation of the nasal mucous membranes. EXPOSURE TO HIGH CONCENTRATIONS: Central nervous system depression. Visual disturbances. Possible oedema of the upper respiratory tract. Possible laryngeal spasm/oedema. Respiratory difficulties. Risk of lung oedema.

Symptoms/effects after skin contact : Caustic burns/corrosion of the skin.

Symptoms/effects after eye contact : Corrosion of the eye tissue.

Symptoms/effects after ingestion : Nausea. Vomiting. Diarrhoea. AFTER INGESTION OF HIGH QUANTITIES: Central nervous system depression. Dizziness. Drunkenness. Blood in vomit. Blood in stool. Shock. Disturbances of consciousness. Change in the haemogramme/blood composition. Blindness. Change in urine composition. Urine discolouration.

Chronic symptoms : ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Skin rash/inflammation. Coughing. Possible inflammation of the respiratory tract. Respiratory difficulties.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : No unsuitable extinguishing media known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Material presenting a fire hazard. INDIRECT FIRE HAZARD: Temperature above flashpoint: higher fire/explosion hazard. Substance contains stabilizer against polymerization. Reactions involving a fire hazard: see "Reactivity Hazard".

Explosion hazard : INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard".

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

| | | |
|---|---|---|
| Protection during firefighting | : | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

| | | |
|---|---|---|
| Protective equipment | : | Gas-tight suit. Corrosion-proof suit. See "Material-Handling" to select protective clothing. |
| Emergency procedures | : | Mark the danger area. Keep upwind. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. No naked flames. Keep containers closed. Wash contaminated clothes. |

#### 6.1.2. For emergency responders

| | | |
|---|---|---|
| Protective equipment | : | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

| | | |
|---|---|---|
| For containment | : | Contain released product, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Dilute toxic gases/vapours with water spray. Take account of toxic/corrosive precipitation water. |
| Methods for cleaning up | : | Scoop absorbed substance into closing containers. Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or kieselguhr. Carefully collect the spill/leftovers. Damaged/cooled tanks must be emptied. Take collected spill to manufacturer/competent authority. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. |
| Other information | : | Dispose of materials or solid residues at an authorized site. |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | | |
|---|---|---|
| Precautions for safe handling | : | Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. |
| Hygiene measures | : | Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Storage conditions | : | Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Heat and ignition sources | : | KEEP SUBSTANCE AWAY FROM: heat sources. |
| Information on mixed storage | : | KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) bases. (strong) acids. |
| Storage area | : | Store in a cool area. Store in a well-ventilated place. Provide for a tub to collect spills. Provide the tank with earthing. Unauthorized persons are not admitted. Keep only in the original container. Meet the legal requirements. |

| | | |
|---|---|---|
| Special rules on packaging | : | SPECIAL REQUIREMENTS: closing. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers. |
| Packaging materials | : | SUITABLE MATERIAL: stainless steel. aluminium. synthetic material. glass. stoneware/porcelain. MATERIAL TO AVOID: iron. copper. nickel. zinc. |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

| **Materials for protective clothing:** |
|---|
| GIVE EXCELLENT RESISTANCE: butyl rubber. nitrile rubber. viton. GIVE GOOD RESISTANCE: tetrafluoroethylene. polyethylene. GIVE LESS RESISTANCE: neoprene. PVC. GIVE POOR RESISTANCE: natural rubber. PVA |

| **Hand protection:** | | | | | |
|---|---|---|---|---|---|
| Protective gloves | | | | | |
| **Type** | **Material** | **Permeation** | **Thickness (mm)** | **Penetration** | **Standard** |
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0.35 | | EN ISO 374 |
| Reusable gloves | Butyl rubber | 6 (> 480 minutes) | 0.5 | | EN ISO 374 |
| Reusable gloves, Disposable gloves | Fluoroelastomer (FKM) | 6 (> 480 minutes) | 0.4 | | EN ISO 374 |

| **Eye protection:** | | | |
|---|---|---|---|
| Safety glasses | | | |
| **Type** | **Use** | **Characteristics** | **Standard** |
| Safety goggles | | With side shields | EN 166 |

| **Skin and body protection:** |
|---|
| Wear suitable protective clothing |

| **Respiratory protection:** | | | |
|---|---|---|---|
| [In case of inadequate ventilation] wear respiratory protection. Wear gas mask with filter type A if conc. in air > exposure limit | | | |
| **Device** | **Filter type** | **Condition** | **Standard** |
| Gas mask | Type A - High-boiling (>65 °C) organic compounds | | EN 143 |

**Personal protective equipment symbol(s):**

**Environmental exposure controls:**
Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Appearance | : | Liquid. |
| Colour | : | Colourless. |
| Odour | : | Irritating/pungent odour. |
| Odour threshold | : | No data available |
| pH | : | 2,8 – 4 |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | < -25 °C |
| Freezing point | : | No data available |
| Boiling point | : | 97 – 99 °C |
| Flash point | : | 72 °C |
| Auto-ignition temperature | : | 430 °C |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Vapour pressure | : | 23 hPa |
| Vapour pressure at 50 °C | : | 23 hPa |
| Relative vapour density at 20 °C | : | No data available |
| Relative density | : | 1,09 |
| Density | : | 1,1 kg/l |
| Solubility | : | Soluble in water. Soluble in ethanol. Soluble in methanol. Soluble in ether. Soluble in acetone. Soluble in chloroform.<br>Water: Complete |
| Partition coefficient n-octanol/water (Log Pow) | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | 7 – 73 vol % |

### 9.2. Other information

| | | |
|---|---|---|
| VOC content | : | 44,5 – 45,5 % |
| Other properties | : | Gas/vapour heavier than air at 20°C. Volatile. Substance has acid reaction. |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Toxic if swallowed.
Acute toxicity (dermal) : Toxic in contact with skin.
Acute toxicity (inhalation) : Fatal if inhaled.

| Formaldehyde 37% (50-00-0) | |
|---|---|
| ATE CLP (oral) | 100 mg/kg bodyweight |
| ATE CLP (dermal) | 300 mg/kg bodyweight |
| ATE CLP (vapours) | 0,5 mg/l/4h |

Skin corrosion/irritation : Causes severe skin burns.
pH: 2,8 – 4
Serious eye damage/irritation : Causes serious eye damage.
pH: 2,8 – 4
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Suspected of causing genetic defects (if inhaled, if swallowed, oral).
Carcinogenicity : May cause cancer (in contact with skin, if inhaled, if swallowed, oral).

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation. May cause damage to organs (eyes) (if inhaled, if swallowed).

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

| Methanol (67-56-1) | |
|---|---|
| LC50 fish 1 | 15400 mg/l |
| LC50 fish 2 | 10800 mg/l |
| EC50 Daphnia 1 | 10000 mg/l |

### 12.2. Persistence and degradability

| formaline 37% (50-00-0) | |
|---|---|
| Persistence and degradability | Not readily biodegradable in water. No (test)data on mobility of the components available. |

| Methanol (67-56-1) | |
|---|---|
| Persistence and degradability | Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. |

| | |
|---|---|
| Biochemical oxygen demand (BOD) | 0,6 – 1,12 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 1,42 g $O_2$/g substance |
| ThOD | 1,5 g $O_2$/g substance |
| BOD (% of ThOD) | 0,8 % ThOD |

### 12.3. Bioaccumulative potential

| formaline 37% (50-00-0) | |
|---|---|
| Bioaccumulative potential | Bioaccumable. |

| Methanol (67-56-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -0,77 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

| Formaldehyde 37% (50-00-0) |
|---|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

| Component | |
|---|---|
| formaline 37% (50-00-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| Methanol (67-56-1) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Dehydrate. Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. May be discharged to wastewater treatment installation.

Additional information : Hazardous waste according to Directive 2008/98/EC.

## SECTION 14: Transport information

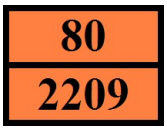
In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number** | | | | |
| UN 2209 | UN 2209 | UN 2209 | UN 2209 | UN 2209 |

| 14.2. UN proper shipping name | | | | |
|---|---|---|---|---|
| FORMALDEHYDE SOLUTION | FORMALDEHYDE SOLUTION | Formaldehyde solution | FORMALDEHYDE SOLUTION | FORMALDEHYDE SOLUTION |
| **Transport document description** | | | | |
| UN 2209 FORMALDEHYDE SOLUTION, 8, III, (E) | UN 2209 FORMALDEHYDE SOLUTION, 8, III | UN 2209 Formaldehyde solution, 8, III | UN 2209 FORMALDEHYDE SOLUTION, 8, III | UN 2209 FORMALDEHYDE SOLUTION, 8, III |
| **14.3. Transport hazard class(es)** | | | | |
| 8 | 8 | 8 | 8 | 8 |
| | | | | |
| **14.4. Packing group** | | | | |
| III | III | III | III | III |
| **14.5. Environmental hazards** | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

## 14.6. Special precautions for user

**Overland transport**

| | | |
|---|---|---|
| Classification code (ADR) | : | C9 |
| Special provisions (ADR) | : | 533 |
| Limited quantities (ADR) | : | 5l |
| Excepted quantities (ADR) | : | E1 |
| Packing instructions (ADR) | : | P001, IBC03, LP01, R001 |
| Mixed packing provisions (ADR) | : | MP19 |
| Portable tank and bulk container instructions (ADR) | : | T4 |
| Portable tank and bulk container special provisions (ADR) | : | TP1 |
| Tank code (ADR) | : | L4BN |
| Vehicle for tank carriage | : | AT |
| Transport category (ADR) | : | 3 |
| Special provisions for carriage - Packages (ADR) | : | V12 |
| Hazard identification number (Kemler No.) | : | 80 |
| Orange plates | : |   |
| Tunnel restriction code (ADR) | : | E |

**Transport by sea**

| | | |
|---|---|---|
| Limited quantities (IMDG) | : | 5 L |
| Excepted quantities (IMDG) | : | E1 |
| Packing instructions (IMDG) | : | P001, LP01 |
| IBC packing instructions (IMDG) | : | IBC03 |
| Tank instructions (IMDG) | : | T4 |
| Tank special provisions (IMDG) | : | TP1 |
| EmS-No. (Fire) | : | F-A |
| EmS-No. (Spillage) | : | S-B |
| Stowage category (IMDG) | : | A |
| Properties and observations (IMDG) | : | Colourless, clear liquid, with a suffocating pungent odour. Usually stabilized with methyl alcohol. Miscible with water. Causes burns to skin, eyes and mucous membranes. |

**Air transport**

| | | |
|---|---|---|
| PCA Excepted quantities (IATA) | : | E1 |
| PCA Limited quantities (IATA) | : | Y841 |
| PCA limited quantity max net quantity (IATA) | : | 1L |
| PCA packing instructions (IATA) | : | 852 |
| PCA max net quantity (IATA) | : | 5L |
| CAO packing instructions (IATA) | : | 856 |
| CAO max net quantity (IATA) | : | 60L |
| ERG code (IATA) | : | 8i |

**Inland waterway transport**

| | | |
|---|---|---|
| Classification code (ADN) | : | C9 |
| Special provisions (ADN) | : | 533 |
| Limited quantities (ADN) | : | 5 L |
| Excepted quantities (ADN) | : | E1 |
| Carriage permitted (ADN) | : | T |
| Equipment required (ADN) | : | PP, EP |
| Number of blue cones/lights (ADN) | : | 0 |

**Rail transport**

| | | |
|---|---|---|
| Classification code (RID) | : | C9 |
| Special provisions (RID) | : | 533 |
| Limited quantities (RID) | : | 5L |
| Excepted quantities (RID) | : | E1 |
| Packing instructions (RID) | : | P001, IBC03, LP01, R001 |
| Mixed packing provisions (RID) | : | MP19 |
| Portable tank and bulk container instructions (RID) | : | T4 |
| Portable tank and bulk container special provisions (RID) | : | TP1 |
| Tank codes for RID tanks (RID) | : | L4BN |
| Transport category (RID) | : | 3 |
| Special provisions for carriage – Packages (RID) | : | W12 |
| Colis express (express parcels) (RID) | : | CE8 |
| Hazard identification number (RID) | : | 80 |

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.
Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

VOC content : 44,5 – 45,5 %

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes: | | | |
|---|---|---|---|
| **Section** | **Changed item** | **Change** | **Comments** |
| | Supersedes | Added | |
| | Revision date | Added | |
| 2.2 | Hazard statements (CLP) | Modified | |

| Abbreviations and acronyms: | |
|---|---|
| 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 |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| DPD | Dangerous Preparations Directive 1999/45/EC |
| DSD | Dangerous Substances Directive 67/548/EEC |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| vPvB | Very Persistent and Very Bioaccumulative |
| TLM | Median Tolerance Limit |

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |

| | |
|---|---|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| STOT SE 1 | Specific target organ toxicity — single exposure, Category 1 |
| STOT SE 2 | Specific target organ toxicity — Single exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H225 | Highly flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H341 | Suspected of causing genetic defects. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H370 | Causes damage to organs. |
| H371 | May cause damage to organs. |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.