

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 SDS Reference Number: 01790 Issue date: 4/9/2014 Revision date: 12/20/2024 Supersedes version of: 12/7/2017 Version: 1.1

| SECTION 1: Identification of the substan | nce/mixture and of the company/undertaking |
|--|--|
| 1.1. Product identifier | |
| Trade name | : Mixture : BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE : 01790 : Solution : $CI \xrightarrow{-} CH_3$ $H \xrightarrow{-} CH_2(CH_2)_nCH_3$ |
| Synonyms | : Alkyl Dimethyl benzyl ammonium chloride 50% Solution |
| 1.2. Relevant identified uses of the substance | e or mixture and uses advised against |
| | : Laboratory chemicals, Manufacture of substances : Reagent |
| 1.3. Details of the supplier of the safety data | sheet |
| LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663, F +91 22 6663 6699 info@lobachemie.com, www.lobachemie.com | |
| 1.4. Emergency telephone number | |
| Emergency number | : + 91 22 6663 6663 (9:00am - 6:00 pm) |
| SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu | re |
| Classification according to Regulation (EC) No. 12 | |
| Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 1, Sub-Category 1B Hazardous to the aquatic environment – Acute Hazard Category 1 Full text of H- and EUH-statements: see section 16 | H302 H314 |
| Adverse physicochemical, human health and envi | ronmental effects |
| Harmful if swallowed. Causes severe skin burns and e | eye damage. Very toxic to aquatic life. |
| 2.2. Label elements | |
| Labelling according to Regulation (EC) No. 1272/2 Hazard pictograms (CLP) | |
| Signal word (CLP) Contains | GHS05 GHS07 GHS09 : Danger : BENZALKONIUM CHLORIDE |

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| Hazard statements (CLP) | : H302 - Harmful if swallowed. |
|--------------------------------|--|
| | H314 - Causes severe skin burns and eye damage. |
| | H400 - Very toxic to aquatic life. |
| Precautionary statements (CLP) | : P273 - Avoid release to the environment. |
| | P280 - Wear protective gloves, protective clothing, eye protection, face protection. |
| | P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. |
| | P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. |
| | Rinse skin with water . |
| | P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove |
| | contact lenses, if present and easy to do. Continue rinsing. |
| | |

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------|--|---------|--|
| BENZALKONIUM CHLORIDE | CAS-No.: 63449-41-2 EC-No.: 264-151-6 EC Index-No.: 612-140-00-5 | 49 – 51 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 |
| WATER | CAS-No.: 7732-18-5 EC-No.: 231-791-2 | 49 – 51 | Not classified |

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

| 4.1. Description of first aid measures | |
|---|---|
| First-aid measures general | : Call a physician immediately. |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. |
| First-aid measures after skin contact | : Wash with plenty of water/ Wash contaminated clothing before reuse. Get medical advice/attention. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately. |
| First-aid measures after eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician immediately. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Call a physician immediately. |
| First-aid measures for first aider | : First aid workers will be equipped with suitable personal protective equipment. |
| 4.2. Most important symptoms and effe | ects, both acute and delayed |
| Symptoms/effects Symptoms/effects after inhalation | Causes severe skin burns and eye damage.None under normal conditions. |

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| Symptoms/effects after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant |
|-------------------------------------|---|
| | health hazard. Harmful in contact with skin. Burns. |
| Symptoms/effects after eye contact | : Causes serious eye damage. Serious damage to eyes. |
| Symptoms/effects after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. Harmful if swallowed. Burns. |

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 Unsuitable extinguishing media | Carbon dioxide. Dry powder. Foam. Water spray.Do not use a heavy water stream. |
| 5.2. Special hazards arising from the subs | tance or mixture |
| Fire hazard Explosion hazard Hazardous decomposition products in case of fire | No fire hazard. No direct explosion hazard. Toxic fumes may be released. |
| 5.3. Advice for firefighters | |
| Firefighting instructions Protection during firefighting | Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

| SECTION 6: Accidental release meas | ures |
|---|--|
| 6.1. Personal precautions, protective equ | ipment and emergency procedures |
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
| For non-emergency personnel | |
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. |
| For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. Evacuate unnecessary personnel. Stop leak if safe to do so. |
| 6.2. Environmental precautions | |

Avoid release to the environment. Very toxic to aquatic life.

| 6.3. Methods and material for containment and cleaning up | |
|---|---|
| For containment | : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Collect spillage. On land, sweep or shovel into suitable containers. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

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6.4. Reference to other sections

For further information refer to section 13.

| SECTION 7: Handling and storage | |
|--|--|
| 7.1. Precautions for safe handling | |
| Additional hazards when processed Precautions for safe handling Hygiene measures | Not expected to present a significant hazard under anticipated conditions of normal use. Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash |
| 7.2. Conditions for safe storage, inclu | contaminated clothing before reuse. Always wash hands after handling the product. |
| Technical measures Storage conditions Packaging materials | Keep in a cool, well-ventilated place away from heat. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store always product in container of same material as original container. |
| 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

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment: Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection: Chemical goggles or safety glasses

Skin protection

Skin and body protection: Wear a mask

Hand protection: Protective gloves

Respiratory protection

Respiratory protection: Wear appropriate mask

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Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Dhundardatata | 1.1 |
|---|--------------------------------|
| Physical state | : Liquid |
| Colour | : Pale yellow. |
| Appearance | : almost clear. Liquid. |
| Odour | : Not available |
| Odour threshold | : Not available |
| Melting point | : Not applicable |
| Freezing point | : Not available |
| Boiling point | : > 100 °C |
| Flammability | : Non flammable. |
| Lower explosion limit | : Not available |
| Upper explosion limit | : Not available |
| Flash point | : 250 °C |
| Auto-ignition temperature | : 370 °C |
| Decomposition temperature | : > 140 °C |
| pH | : 6-9 |
| pH solution concentration | : 10 % |
| Viscosity, kinematic | : 132.653 mm²/s |
| Viscosity, dynamic | : 130 mPa⋅s at 20 °C |
| Solubility | : Water: Miscible with water |
| | Ethanol: Miscible with Ethanol |
| Partition coefficient n-octanol/water (Log Kow) | : Not available |
| Vapour pressure | : 120 hPa at 20 °C |
| Vapour pressure at 50°C | : Not available |
| Density | : 0.98 g/cm³ at 20°C |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle characteristics | : Not applicable |
| | |
| | |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

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

Direct sunlight. Overheating.

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

| SECTION 11: Toxicological information | |
|---|--|
| 11.1. Information on hazard classes as define | ed in Regulation (EC) No 1272/2008 |
| Acute toxicity (oral) : | Harmful if swallowed. |
| Acute toxicity (dermal) : | Not classified |
| Acute toxicity (inhalation) : | Not classified |
| BENZALKONIUM CHLORIDE AQUEOUS SOL | UTION 50% EXTRA PURE |
| ATE CLP (oral) | 980.392 mg/kg bodyweight |
| Skin corrosion/irritation : | Causes severe skin burns. pH: 6 – 9 |
| WATER (7732-18-5) | |
| рН | 6 – 8 at 25 °C |
| Serious eye damage/irritation : | Assumed to cause serious eye damage pH: 6 – 9 |
| WATER (7732-18-5) | |
| рН | 6 – 8 at 25 °C |
| Respiratory or skin sensitisation : | Not classified |
| Germ cell mutagenicity : | Not classified |
| Carcinogenicity : | Not classified |
| Reproductive toxicity : | Not classified |
| STOT-single exposure : | Not classified |
| STOT-repeated exposure : | Not classified |
| Aspiration hazard : | Not classified |
| BENZALKONIUM CHLORIDE AQUEOUS SOL | UTION 50% EXTRA PURE |
| Viscosity, kinematic | 132.653 mm²/s |
| WATER (7732-18-5) | |
| Viscosity, kinematic | 0.894 mm²/s |
| 11.2. Information on other hazards | |
| Other information | |
| Potential adverse human health effects and : symptoms | Harmful if swallowed,Harmful in contact with skin. |

| SECTION 12: Ecological information | | |
|---|---|--|
| 12.1. Toxicity | | |
| Ecology - general Ecology - water Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term (chronic) | Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life. Not classified | |

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| 12.2. Persistence and degradability | |
|---|--------------------|
| BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE | |
| Persistence and degradability Rapidly degradable | |
| BENZALKONIUM CHLORIDE (63449-41-2) | |
| Persistence and degradability | Rapidly degradable |
| WATER (7732-18-5) | |
| Persistence and degradability | Rapidly degradable |
| 12.3. Bioaccumulative potential | |
| No additional information available | |
| 12.4. Mobility in soil | |
| No additional information available | |
| 12.5. Results of PBT and vPvB assessment | |
| No additional information available | |
| 12.6. Endocrine disrupting properties | |
| No additional information available | |
| 12.7. Other adverse effects | |
| No additional information available | |

| SECTION 13: Disposal consideration | S |
|---|---|
| 13.1. Waste treatment methods | |
| Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations | Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations. |
| Additional information | : Do not re-use empty containers. |

SECTION 14: Transport information

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

| 14.1. UN number or ID number | |
|--|--|
| UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID) | : UN 3265 |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |

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| Proper Shipping Name (RID) | : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
|--|---|
| Transport document description (ADR) (ADR) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50%), 8, II, (E), ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IMDG) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS |
| Transport document description (IATA) | : UN 3265 Corrosive liquid, acidic, organic, n.o.s. (BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50%), 8, II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (ADN) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, ENVIRONMENTALLY HAZARDOUS |
| Transport document description (RID) | : UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., 8, II, ENVIRONMENTALLY HAZARDOUS |
| | |

14.3. Transport hazard class(es)

| Α | D | R |
|---|---|---|
| | | |

Transport hazard class(es) (ADR) Danger labels (ADR)



IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



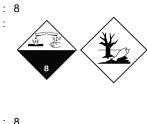
ΙΑΤΑ

Transport hazard class(es) (IATA) Danger labels (IATA)

ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

RID Transport hazard class(es) (RID) Danger labels (RID)



: 8

: || : || : ||



14.4. Packing group

| Packing group (ADR) |
|----------------------|
| Packing group (IMDG) |
| Packing group (IATA) |

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| 14.5. Environmental hazards Dangarous for the environment : Yes EmRNo. (spillage) :: SA EmRNo. (spillage) :: SA EmRNo. (spillage) :: SA Other information :: No supplementary information available 14.6. Special procession for user Overland transport Cassification code (DR) :: C3 Special provisions (ADR) :: 1 Excepted quantities (ADR) :: 1 Excepted quantities (ADR) :: 1 Packing instructions (ADR) :: 1000, IBC02 Mixed pacing provisions (ADR) :: 11 Portable tark and bulk container special provisions : TP2, TP27 Valido for tark carriage :: AT Transcode (ADR) :: 2 Acc code :: 2X Transport bases :: 300 Orange plates :: 2X Transport by sea :: 2X Transport by sea :: 2X Special provisions (MDG) :: 11 Excepted quantities (MDG) :: 11 Excepted quantities (MDG) :: 12 Excepted quantitis (MDG) : 12 | Packing group (ADN) | : |
|---|------------------------------------|--|
| Dargerous for the environment : Yes Manne polutant : Yes EmS-No. (Fin) : F.A EmS-No. (Splidge) : S.B Order information : No supplementary information available 14.6. Special precautions for user Overland transport Classification code (ADR) : C.3 Special provisions (ADR) : I Excepted quantities (ADR) : I Excepted quantities (ADR) : II Excepted quantities (ADR) : II Packing instructions (ADR) : PO1. IBC02 Mixed packing provisions (ADR) : TP2. TP27 Oxtalia tark and buk container instructions (ADR) : TP2. TP27 CARN : Z Tank code (ADR) : LABN Vahicle for tark carriage : AT Transport gase : 80 Orange plates : 80 Orange plates : 2X Tunner restriction code (ADR) : E EAC code : 2X Transport gase : 2 Special provisions (IMDG) : 1 Excopted quantities (MOG) : 1 Excopted qu | Packing group (RID) | : 11 |
| Marine pollutant : Yes EnNS-No. (Fre) : F-A EnNS-No. (Splilage) : S-B Other information : No supplementary information available 14.6. Special proceutions for user Corriant famport : C3 Gassification code (ADR) : 274 Limited quantities (ADR) : 214 Corriant instructions (ADR) : 11 Excepted quantities (ADR) : P2. 152.7 Mark park portions (ADR) : P101 IBC02 Mark park portions (ADR) : T11 Portable lank and bulk container instructions (ADR) : T11. Portable lank and bulk container special provisions : TP2. TP2.T (ADR) : TP2. TP2.T (ADR) : L4BN Vehicle for tank carriage : AT Tansport ottops(V (ADR) : 2 Hazard dentification number (Kemiler No.) : 80 Orange plates : 2X Tansport ottops(V (ADR) : 2 Hazard dentification number (Kemiler No.) : 80 Orange plates : 2X Tansing ottops(V (MDG) : 1 < | 14.5. Environmental hazards | |
| EmS-No. (Sping) : F-A Borsho. (Sping) : No supplementary information available 146. Special proceutions for user Content transport : C3 Cassification code (ADR) : C3 Special provisions (ADR) : 274 Limited quantities (ADR) : 1 Excepted quantities (ADR) : 1 Excepted quantities (ADR) : 1 Packing instructions (ADR) : P01. IBC02 Mixed packing provisions (ADR) : P12. TP27 Otable tank and buk container special provisions : TP2. TP27 Ortable tank and buk container special provisions : TP2. TP27 Varicle for tank carriago : AT Transport category (ADR) : 2 Hazard dentification number (Kemter No.) : 80 Orange plates : 80 Special provisions (IMCG) : 274 Limited quantities (IMDG) : 1 EAC code : 274 Limited quantities (IMDG) : 1 Eacple doard informations (IMDG) : 1 Eacple doard informations (IMDG) : 1 Micansport | - | |
| Ems-No. (Splingap): S-BOrder information: No supplementary information available14.6. Special procautions for userClassification code (ADR): C3Special provisoms (ADR): 274Limited quantities (ADR): E1Decreted quantities (ADR): Pool, IBC02Packing instructions (ADR): Pool, IBC02Naked packing provisoms (ADR): T11Portable tank and buk container instructions (ADR): T12, TP27(ADR): LABNVehicle for tank carriage: ATTransport dispory (ADR): 2Hazard Identification number (Kemiler No.): 80Orange plates: 2Carriage (ADR): EEAC code: 2XTransport dispory (ADR): 11Each code (ADR): EEach code (ADR): 2Unnet restriction code (ADR): 2Carriage instructions (MDG): 2Carriage instructions (MDG): 11Carriage instructions (MDG): 11Each code: 2Packing instructions (MDG): 11Carriage instructions (MDG): 11Each code instructions (MDG): 12Each code instructions (MDG): 12Each code instructions (MDG): 12 | | |
| Other information : No supplementary information available 14.6. Special processions for user Overland transport :: C3 Gassification code (ADR) :: 274 Limited quantities (ADR) :: 274 Packing instructions (ADR) :: E2 Packing instructions (ADR) :: II Excepted quantities (ADR) :: IV1 Portable tank and bulk container special provisions :: TP2. TP27 (ADR) :: L4BN Vehicle for tank carriage :: AT Transport category (ADR) :: B00 0'acde (ADR) :: E EAC code :: 274 Limited quantities (MDG) :: B Special provisions (MDG) :: 274 Limited quantities (MDG) :: 11 Crasport by soa :: 500 Special provisions (MDG) :: 11 Crasport by soa :: 500 Special provisions (MDG) :: 11 Tank special provisions (MDG) :: 11 Transport by soa :: 500 Special provisions (MDG) :: 11 Transport by soa :: 500 Special provisions (MDG) | | |
| 14.6. Special precautions for user Overland transport Constitution code (ADR) 1 Excepted quantities (ADR) 1 Excepted quantities (ADR) 1 Excepted quantities (ADR) 1 Portable tark and bulk container instructions (ADR) 1 Portable tark and bulk container instructions (ADR) 1 Transport bulk container instructions (ADR) 1 Portable tark and bulk container instructions (ADR) 1 Transport bulk container instructions (ADR) 1 Excepted quantities (MOR) 2 Hazard dentification number (Kemier No.) 2 Excepted quantities (MOR) 2 Excepted quantities (MOG) 3 Excepted quantities (MOG) 3 | | |
| Overland transport::Classification code (ADR)::::Classification code (ADR)::::Pecking instructions (ADR)::::Excepted quantilies (ADR)::::Packing instructions (ADR)::::Portable tank and bulk container instructions (ADR)::::Portable tank and bulk container special provisions::::Tank code (ADR)::::::Vehicle for tank carriage::::::Tansport category (ADR)::::::Vehicle for tank carriage::::::Stead Gentification number (Kemler No.)::::::Stead Gentification number (Kemler No.)::::::Packing instructions (MDG)::::::::Packing instructions (MDG) <t< td=""><td>Other Information</td><td>: No supplementary information available</td></t<> | Other Information | : No supplementary information available |
| Classification code (ADR) : C3 Special provisions (ADR) : 11 Excepted quantities (ADR) : 274 Authined quantities (ADR) : 2001, IBC02 Mixed packing provisions (ADR) : W175 Portable tank and bulk container instructions (ADR) : 111 Portable tank and bulk container instructions (ADR) : 111 Portable tank and bulk container instructions (ADR) : 111 Portable tank and bulk container special provisions : 1292, T277 (ADR) Tank code (ADR) : 248N Vehicle for tank carriage : AT Transport category (ADR) : 2 Pacific tank carriage : AT Transport category (ADR) : 2 Pacific tank carriage : 300 Crange plates : 300 Crange plates : 300 Crange plates : 300 Crange plates : 2 Pacific tank carriage : 2 Pacific | 14.6. Special precautions for user | |
| Special provisions (ADR) : 274 Limided quantities (ADR) : 11 Excepted quantities (ADR) : P001, IBC02 Mixed packing provisions (ADR) : MP15 Portable tark and buik container special provisions : TP2, TP27 (ADR) : L4BN Vehicle for tank carriage : AT Transport category (ADR) : E Packing instructions (ADR) : B0 Orange plates : B0 Orange plates : B0 Transport category (ADR) : E EAC code : 224 EAC code : 224 EAC code : 274 Limited quantities (IMDG) : 11 Code : 274 Limited quantities (IMDG) : 11 Excepted quantities (IMDG) : 11 Code instructions (IMDG) : 110 Stowage category (IMDG) : 110 Stowage category (IMDG) : 110 < | | |
| Limited quantities (ADR) : 11 Excepted quantities (ADR) : E2 Packing instructions (ADR) : MP15 Portable tank and buik container instructions (ADR) : T11 Portable tank and buik container instructions (ADR) : T12 Portable tank and buik container special provisions : TP2, TP27 (ADR) : L4BN Vehicle for tank carriage : AT Transport category (ADR) : 2 Hazard identification number (Kemler No.) : 80 Orange plates : 80 Social provisions (MDC) : 2 EE EAC code (ADR) : 2 Packing instructions (MDG) : 274 Limited quantities (MDG) : 11 Limited quantities (MDG) : 274 Limited quantities (MDG) : 274 Acking instructions (MDG) : 274 Limited quantities (MDG) : 274 Packing instructions (MTA) : 256 Packing instructions (MTA) : 257 Packing instructions (MTA) : 258 Packing instructions (MTA) : 258 P | | |
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| Packing instructions (ADR) : P001, IEC02 Mixed packing provisions (ADR) : VH15 Portable tank and bulk container instructions (ADR) : T11 Portable tank and bulk container special provisions : TP2, TP27 (ADR) : L48N Vehicle for tank carriage : AT Transport category (ADR) : 2 Packing instructions (MDG) : 2 Packing instructions (MDG) : 2 Packing instructions (MDG) : 2 Packing instructions (MDG) : 1 Excepted quantities (MDG) : 1 Packing instructions (MDG) : 2 Packing instructions (MDG) : 2 Packin | | |
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Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Number of blue cones/lights (ADN) | : | 1 L E2 T PP, EP 0 |
|--|---|-------------------------------|
| Rail transport | | |
| Classification code (RID) | : | C3 |
| Special provisions (RID) | : | 274 |
| Limited quantities (RID) | : | 1L |
| Excepted quantities (RID) | : | E2 |
| Packing instructions (RID) | : | P001, IBC02 |
| Mixed packing provisions (RID) | : | MP15 |
| Portable tank and bulk container instructions (RID) | : | T11 |
| Portable tank and bulk container special provisions (RID) | : | TP2, TP27 |
| Tank codes for RID tanks (RID) | | L4BN |
| Transport category (RID) | - | 2 |
| Colis express (express parcels) (RID) | : | CE6 |
| Hazard identification number (RID) | : | 80 |
| | | |

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) | |
|--|---|
| Reference code | Applicable on |
| 3(b) | BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE |
| 3(c) | BENZALKONIUM CHLORIDE AQUEOUS SOLUTION 50% EXTRA PURE |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

France

| Occupational diseases | | |
|--|----------------------------------|---|
| Code | Description | |
| RG 66 | Occupational rhinitis and asthma | |
| Germany | | |
| VOC ordinance (ChemVOCI | FarbV) | : |
| Water hazard class (WGK) Hazardous Incident Ordinan | ce (12. BlmSchV) | WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1). Is not subject to the Hazardous Incident Ordinance (12. BImSchV) |
| Netherlands | | |
| SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling | | None of the components are listed |
| Denmark | | |
| Danish National Regulations : | | : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Abbreviations and acronyms: | | |
|-----------------------------|---|--|
| ACGIH | American Conference of Governement Industrial Hygienists | |
| 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 | |
| BLV | Biological limit value | |
| BOD | Biochemical oxygen demand (BOD) | |
| CAS-No. | Chemical Abstract Service number | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| COD | Chemical oxygen demand (COD) | |
| CSA | Chemical safety assessment | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |
| EC-No. | European Community number | |

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and | acronyms: |
|-------------------|--|
| EC50 | Median effective concentration |
| ED | Endocrine disruptor |
| EN | European Standard |
| EWC | European waste catalogue |
| IARC | International Agency for Research on Cancer |
| ΙΑΤΑ | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| Log Kow | Partition coefficient n-octanol/water (Log Kow) |
| Log Pow | Partition coefficient n-octanol/water (Log Pow) |
| МАК | maximum workplace concentration |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| N.O.S. | Not Otherwise Specified |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety & Health Administration |
| РВТ | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| PPE | Personal protection equipment |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| TF | Technical function |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| TWA | Time Weighted Average |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| UFI | Unique Formula Identifier |

| Full text of H- and EUH-statements: | |
|-------------------------------------|---|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H400 | Very toxic to aquatic life. |

Safety Data Sheet (SDS), EU

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.