



CHEMSYNTH CORPORATION

(Exporter of chemical Raw materials)

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BENZALKONIUM CHLORIDE PURE

MSDS CAS: 063449-41-2

Identification of the substance/mixture and of the company/undertaking

Product identifier Trade name : BENZALKONIUM CHLORIDE PURE Product code : 01790

Identification of the product : Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides CAS No :63449-41-2 EC No :264-151-6 Annex No :612-140-00-5 1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

2. Hazards identification –DSD

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP) Health hazards : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314 Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318 Acute toxicity, dermal - Category 4 - Warning (CLP : Acute Tox. 4) H312 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302 Environmental hazards : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400

3. Composition/information on ingredients

Substance / Preparation : Quaternary ammonium compounds, benzyl-C8-18-alkyldimethyl, chlorides CAS No :63449-41-2 EC No :264-151-6 Annex No :612-140-00-5 Substance.

4. First aid measures

4.1. Description of first aid measures Inhalation : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing. Skin contact : Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Specific treatment (see on this label). Wash contaminated clothing before reuse. Remove/Take off immediately all contaminated clothing. 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 or doctor. Ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Call a POISON CENTER or doctor if you feel unwell.

5. Fire-fighting measures

5.1. Extinguishing media Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand. Unsuitable extinguishing media : Do not use a heavy water stream. Surrounding fires : Use water spray or fog for cooling exposed containers. 5.2. Special hazards arising from the substance or mixture Hazardous combustion products : Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours. 5.3. Advice for fire-fighters Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection. Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For emergency responders : Equip cleanup crew with proper protection. Ventilate area. For non-emergency personnel : Evacuate unnecessary personnel. 6.2. Environmental precautions Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

7. Handling and storage

7.1. Precautions for safe handling Handling : Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Technical protective measures : Provide good ventilation in process area to prevent formation of vapour. 7.2. Conditions for safe storage, including any incompatibilities Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use. Storage regulation : Comply with applicable regulations. Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. 7.3. Specific end use(s) Specific end use(s) : None.

8. Exposure controls/personal protection

8.1. Exposure controls Personal protection : Avoid all unnecessary exposure. • Respiratory protection : Wear approved mask. • Hand protection : Wear protective gloves. • Skin protection : Wear suitable protective clothing. • Eye protection : Chemical goggles or face shield. • Others : When using, do not eat, drink or smoke.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Colour : Pale yellow

Odour : N/A

Odour threshold : No data available.

pH value : No data available.

Melting point [°C] : No data available.

Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : N/A
Flammability (solid, gas) : N/A
Flash point [°C] : 250°C
Boiling point [°C] : 100 °C
Initial boiling point [°C] : N/A
Final boiling point [°C] : N/A
Evaporation rate : N/A
Vapour pressure [20°C] : 130 mPa @ 200C
Vapour pressure mm/Hg : N/A
Vapour density : N/A
Density [g/cm³] : 0,98 Relative density,

gas (air=1) : N/A Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Soluble in water Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : 6 - 9 Viscosity at 40°C [mm²/s] : N/A

10. Stability and reactivity

10.1. Reactivity Reactivity : Not established. 10.2. Chemical stability Chemical stability : Stable under recommended storage conditions. 10.3. Possibility of hazardous reactions Hazardous reactions : Not established. 10.4. Conditions to avoid Conditions to avoid : Direct sunlight. Extremely high or low temperatures. 10.5. Incompatible materials Materials to avoid : Strong acids. Strong bases. 10.6. Hazardous decomposition products Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

11.1. Information on toxicological effects Acute toxicity • Inhalation : Based on available data, the classification criteria are not met. • Dermal : Harmful in contact with skin. • Ingestion : Harmful if swallowed. Corrosion : Causes severe skin burns and eye damage. Causes serious eye damage. Irritation : Based on available data, the classification criteria are not met. Sensitization : Based on available data, the classification criteria are not met. Mutagenicity : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. Toxic for reproduction : Based on available data, the classification criteria are not met. STOT-single exposure : Based on available data, the

classification criteria are not met. STOT-repeated exposure : Based on available data, the classification criteria are not met

12. Ecological information

12.1. Toxicity Toxicity information : Very toxic to aquatic life. 12.2. Persistence - degradability Persistence - degradability : Biodegradable. 12.3. Bioaccumulative potential Bioaccumulative potential : Not established. 12.4. Mobility in soil Mobility in soil : Not established. 12.5. Results of PBT and vPvB assessment Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

13. Disposal considerations

13.1. Waste treatment methods General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID) Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. 14.2. Sea transport (IMDG) [English only] "«»•" Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. UN N° : 3265 IMO-IMDG - Class or division : 8 : Corrosive substance. IMO-IMDG - Packing group : III IMO- IMDG - Packing instructions : P001 LP01 IMO-IMDG - Limited quantities : 5 L IMO-IMDG - Marine pollution : Yes EMS-Nr : F-A S-B 14.3. Air transport (ICAO-IATA) [English only] Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. UN N° : 3265 IATA - Class or division : 8 : Corrosive substance. IATA - Packing group : III IATA - Passenger and Cargo Aircraft : ALLOWED - Passenger and Cargo - Packing : 852 instruction - Passenger and Cargo - Maximum : 5 L.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Safety, health and environmental : Ensure all national/local regulations are observed. regulations/legislation specific for the substance or mixture REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. REACH Authorisation - Annex XIV : The components of this product are not subject to authorization. 15.2. Chemical Safety Assessment Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision : Revision - See : * Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 List of relevant R phrases (heading 3) : R21/22 : Harmful in contact with skin and if swallowed. R34 : Causes burns. R50 : Very toxic to aquatic organisms. List of full text of H-statements in : H302 : Harmful if swallowed. section 3 H312 : Harmful in contact with skin. H314 : Causes severe skin burns and eye damage. H318 : Causes serious eye damage. H400 : Very toxic to aquatic life. Further information : None.