

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Chemical nature of the preparation This product contains:

Chemical Name	CAS-No	EINECS/ ELINCS	REACH-No	Proportion (% w/w)	Classification
Benzyl (dodecyl) dimethylammonium chloride	139-07-1	EINECS: 205-351-5	No information available	< 0.25 %	Xn;R21/22 C;R34 N;R50
Benzyl (tetradecyl) dimethylammonium chloride	139-08-2	EINECS: 205-352-0	No information available	< 0.1 %	Xn;R21/22 C;R34 N;R50

Other ingredients may be present as being disclosed by the ingredient declaration on package.

For the full text of the R phrases mentioned in this Section, see Section 16.

Ingredients according to detergents regulation 648/2004/EC.

Per 100 gm liquid concentrate: 0.198 gm Benzalkonium Chloride

4. FIRST-AID MEASURES.

General advice	Show the container and / or this safety data sheet to the doctor in attendance
Skin Contact	None under normal use. In the case of skin irritation or allergic reactions see a physician.
Eye Contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice if symptoms persist.
Inhalation	Move to fresh air.
Ingestion	If swallowed, seek medical advice immediately and show this container or label.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment.

5. FIRE-FIGHTING MEASURES.

Flash point:	See section 9
Suitable Extinguishing Media:	As suitable for the surrounding fire.
Extinguishing media which must not be used for safety reasons:	No information available
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.
Precautions for fire-fighting	Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES.

Flash point:	See section 9
Suitable Extinguishing Media:	As suitable for the surrounding fire.
Extinguishing media which must not be used for safety reasons:	No information available
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.
Precautions for fire-fighting	Standard procedure for chemical fires.



7. HANDLING AND STORAGE.

Handling:	Use only according to our recommendations. Ensure adequate ventilation. For external use only. Avoid contact with skin and eyes. Do not inhale.
Storage:	Store contents under 25°C. Keep out of the reach of children.
Storage Classification	12 (=Non-combustible liquids, following German VCI-concept)

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Occupational exposure controls

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory Protection: No special protective equipment required.

Eye Protection Not required under normal use
Avoid contact with eyes.
If splashes are likely to occur, wear:
Safety glasses

Hand Protection: Not required under normal use
For sensitive skin or prolonged use, wear rubber gloves.

Skin and Body Protection: Usual safety precautions while handling the product will provide adequate protection.

Hygiene measures When using, do not eat, drink or smoke.

Environmental exposure controls

Local authorities should be advised if significant spillages cannot be contained

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical State:	Liquid
Appearance:	Liquid
Colour:	Clear
Odour:	Pine
pH	5.5 - 6.5
Boiling Point/Range:	No information available
Solubility:	Water solubility: completely soluble
Flash Point:	Based on components, Flash point is >93.3°C (>200°F)



10. STABILITY AND REACTIVITY.

Stability	Stable under normal conditions.
Conditions to Avoid:	Store away from excessive heat and moisture.
Incompatible Products	• None known
Hazardous Decomposition Products:	None known
Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION.

PRODUCT TOXICITY DATA

LD ₅₀ Oral:	No information available
LD ₅₀ Dermal:	No information available
LC ₅₀ Inhalation (Dust):	No information available
LC ₅₀ Inhalation (Vapor):	No information available

ACUTE EFFECTS::

Eye Irritation	None expected during normal use. May cause eye irritation upon direct contact with eyes.
Skin Irritation	None expected during normal conditions of use.
Inhalation	None expected during normal conditions of use. Do not breathe spray.
Ingestion	Health injuries are not known or expected under normal use.
Sensitization	Not expected to be a skin sensitiser.
Chronic Effects:	No information available.

Specific Effects

Carcinogenic Effects:	Not listed as carcinogenic by OSHA, NTP or IARC.
Mutagenic Effects	No information available.
Reproductive Toxicity:	No information available.
Additional Toxicity Information:	Information given is based on data on the components and the toxicology of similar products.

COMPONENT TOXICITY DATA

Chemical Name	CAS-No	LD50 Oral - with units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Benzyl (dodecyl) dimethylammonium chloride	139-07-1	400 mg/kg (Rat)		



12. ECOLOGICAL INFORMATION.

Ecotoxicity:

PRODUCT TOXICITY DATA

Aquatic toxicity: This product is not classified as an environmental hazard.

COMPONENT TOXICITY DATA

Benzyl (dodecyl) dimethylammonium chloride
Microtox EC50 = 1.62 mg/L 5 min

Other Information

Ozone depletion potential; ODP;
(R-11 = 1) No information available.

Global Warming Potential (GWP): No information available.

Additional Ecological Information: Any contained surfactants are ultimately biodegradable according to the EU Detergent Regulation, 648/2004.

13. DISPOSAL CONSIDERATIONS.

Disposal Methods and Containers: Bulk quantities of product must be disposed of according to Local, State and Federal regulations.

Special Precautions for Landfill or Incineration: No information available

Contaminated Packaging: Dispose of as unused product.

Further information: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Waste codes should be assigned by the user based on the application for which the product was used.

Packaging and container to be recycled only if emptied completely!

EWC waste disposal No: No information available

14. TRANSPORT INFORMATION.

General remarks Not classified as dangerous in the meaning of transport regulations.

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated



15. REGULATORY INFORMATION.

Chemical Safety Assessment following regulation 1907/2006/EC: Not relevant.

In accordance with local and national regulations: The product is classified and labelled in accordance with Directive 1999/45/EC.

Labelling:

FOR EXTERNAL USE ONLY!

Avoid contact with eyes, ears, mouth, and large areas of the body.

In case of contact, rinse immediately with plenty of water and seek medical advice.

Do not inhale.

People with known hypersensitivity to benzalkonium chloride should be advised to avoid using the product.

<u>Symbol(s)</u>	Not dangerous.
<u>R -phrase(s)</u>	None
<u>S -phrase(s)</u>	S 2 - Keep out of the reach of children S46 - If swallowed, seek medical advice immediately and show this container or label

16. OTHER INFORMATION.

Text of R phrases mentioned in Section 3

- R34 - Causes burns.
- R50 - Very toxic to aquatic organisms.
- R21/22 - Harmful in contact with skin and if swallowed.

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.