

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 10-11-2021 Version: 1.0

1.1. Product identifier	
Product form Trade name EC-No. CAS-No. Product code Formula Chemical structure	 Substance BENZYLDIMETHYLHEXADECYLAMMONIUM CHLORIDE HYDRATE 204-526-3 122-18-9 1924C C25H46CIN.xH2O C25H46CIN.xH2O C⁻h²C^H₂(C^H₂)₁₄C^H₃ C⁻
Synonyms	 : N, CH₂(CH₂)₁₄CH₃ Cl⁻ : 16-BAC, Benzylhexadecyldimethylammonium chloride, Cetyldimethylbenzylammonium chloride, Cetalkonium chloride
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety da	ata 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 mix	xture
Classification according to Regulation (EC) No	

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1B	H314
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410
Full text of H-statements: see section 16	

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes severe skin burns and eye damage. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (E	C) No. 1272/2008 [CLP]			
Hazard pictograms (CLP)			¥2	
	GHS05	GHS07	GHS09	
Signal word (CLP)	: Danger	Chicon	011000	

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Hazard statements (CLP)	 H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P260 - Do not breathe dust, fume, gas, mist, spray, vapours. P273 - Avoid release to the environment. P280 - Wear protective clothing, eye protection, face protection. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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

No additional information available

SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance type	: Mono-constituent		
Name	Product identifier	%	
BENZYLDIMETHYLHEXADECYLAMMONIUM CHLORIDE HYDRATE	CAS-No.: 122-18-9 EC-No.: 204-526-3	100	

3.2. Mixtures

Not applicable

 Call a physician immediately. Remove person to fresh air and keep comfortable for breathing.
 Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. Call a physician immediately.
: Rinse mouth. Do not induce vomiting. Call a physician immediately.
, both acute and delayed
Burns.Serious damage to eyes.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	: Water spray. Dry powder. Foam.	
5.2. Special hazards arising from	the substance or mixture	
Hazardous decomposition products in o	ase of fire : Toxic fumes may be released.	

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5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release measu	res	
6.1. Personal precautions, protective equip	oment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours.	
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.		
6.3. Methods and material for containment and cleaning up		
For containment Methods for cleaning up Other information	 Collect spillage. Mechanically recover the product. 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	ge	
7.1. Precautions for safe handling		
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust, fume, gas, mist, spray, vapours. Wear personal protective equipment.	
Hygiene measures	: Wash contaminated clothing before reuse. 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		

: Store locked up. Store in a well-ventilated place. Keep cool.

Storage conditions

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

8.2.2.2. Skin protection

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. 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

Physical state	:	Solid
Appearance	:	Crystalline powder.
Molecular mass	:	396.09 g/mol
Colour	:	Colourless. White to cream.
Odour	:	No data available
Odour threshold	:	No data available
рН	:	5.55 at 29.2°C
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	55 – 65 °C
Freezing point	:	Not applicable
Boiling point	:	No data available
Flash point	:	62 °C - Pensky-Martens closed cup
Auto-ignition temperature	:	Does not ignite
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable.
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Water: 5 g/l at 25°C - OECD Test Guideline 105- soluble
		Ethanol: Soluble in Ethanol.
		Ether: Soluble in Ether.
		Acetone: Soluble in Acetone.

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Partition coefficient n-octanol/water (Log Pow)	: 3.02 at 25°C - Bioaccumulation is not expected.
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

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 effect	S	
Acute toxicity (oral)	: Harmful if swallowed.	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
Skin corrosion/irritation	: Causes severe skin burns.	
	pH: 5.55 at 29.2°C	
Serious eye damage/irritation	: Assumed to cause serious eye damage	
	pH: 5.55 at 29.2°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	
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Viscosity, kinematic	Not applicable	

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SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	 Very toxic to aquatic life with long lasting effects. Not classified Very toxic to aquatic life with long lasting effects.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
BENZYLDIMETHYLHEXADECYLAMMONIUM	CHLORIDE HYDRATE (122-18-9)
Partition coefficient n-octanol/water (Log Pow)	3.02 at 25°C - Bioaccumulation is not expected.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
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.

SECTION 14: Transport information

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

14.1. UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 UN 3261 UN 3261 UN 3261 UN 3261 UN 3261
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR)	 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethylhexadecylammonium chloride Hydrate), 8, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethylhexadecylammonium chloride Hydrate), 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3261 Corrosive solid, acidic, organic, n.o.s. (Benzyldimethylhexadecylammonium chloride Hydrate), 8, III, ENVIRONMENTALLY HAZARDOUS

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Transport document description (ADN)	: UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethylhexadecylammonium chloride Hydrate), 8, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Benzyldimethylhexadecylammonium chloride Hydrate), 8, III, 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)

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

: 8 : 8

: 8

: III : III : III

: 8

: 8

:

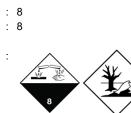


ADN

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



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



14.4. Packing group

Packing group (ADR)
Packing group (IMDG)
Packing group (IATA)

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Packing group (ADN)	: III
Packing group (RID)	: III
14.5. Environmental hazards	
	: Yes
Dangerous for the environment Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	
Overland transport	
Classification code (ADR)	: C4
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions	: TP33
(ADR)	
Tank code (ADR)	: SGAV, L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Hazard identification number (Kemler No.)	: 80
Orange plates	80
	3261
Tunnel restriction code (ADR)	: E
EAC code	: 2X
Transport by sea	
Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG1, SG36, SG49
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y845
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 860
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 864
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C4
Special provisions (ADN)	: 274
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Limited quantities (ADN)	:	5 kg
Excepted quantities (ADN)	:	E1
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0
Rail transport		
Classification code (RID)	:	C4
Special provisions (RID)	:	274
Limited quantities (RID)	:	5kg
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P002, IBC08, LP02, R001
Special packing provisions (RID)	:	B3
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	T1
Portable tank and bulk container special provisions	:	TP33
(RID)		
Tank codes for RID tanks (RID)	:	SGAV, L4BN
Transport category (RID)	:	3
Special provisions for carriage – Bulk (RID)	:	VC1, VC2, AP7
Colis express (express parcels) (RID)	:	CE11
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

No REACH Annex XVII restrictions

BENZYLDIMETHYLHEXADECYLAMMONIUM CHLORIDE HYDRATE is not on the REACH Candidate List

BENZYLDIMETHYLHEXADECYLAMMONIUM CHLORIDE HYDRATE is not on the REACH Annex XIV List

BENZYLDIMETHYLHEXADECYLAMMONIUM CHLORIDE HYDRATE is not 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.

BENZYLDIMETHYLHEXADECYLAMMONIUM CHLORIDE HYDRATE is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Employment restrictions	 Observe restrictions according Act on the Protection of Working Mothers (MuSchG) Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)
Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 599)
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Borstvoeding	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Vruchtbaarheid	
NIET-limitatieve lijst van voor de voortplanting	: The substance is not listed
giftige stoffen – Ontwikkeling	
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

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Switzerland

Storage class (LK)

: LK 8 - Corrosive materials

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

	yms uropean Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
	uropean Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR Eu	
	uropean Agreement concerning the International Carriage of Dangerous Goods by Road
ATE Ac	cute Toxicity Estimate
BCF Bio	ioconcentration factor
BLV Bio	iological limit value
BOD Bio	iochemical oxygen demand (BOD)
COD Ch	hemical oxygen demand (COD)
DMEL De	erived Minimal Effect level
DNEL De	erived-No Effect Level
EC-No. Eu	uropean Community number
EC50 Me	edian effective concentration
EN Eu	uropean Standard
IARC Int	ternational Agency for Research on Cancer
IATA Int	ternational Air Transport Association
IMDG Int	ternational Maritime Dangerous Goods
LC50 Me	edian lethal concentration
LD50 Me	ledian lethal dose
LOAEL Lo	owest Observed Adverse Effect Level
NOAEC No	o-Observed Adverse Effect Concentration
NOAEL No	o-Observed Adverse Effect Level
NOEC No	o-Observed Effect Concentration
OECD Or	rganisation for Economic Co-operation and Development
OEL Oc	ccupational Exposure Limit
PBT Pe	ersistent Bioaccumulative Toxic
PNEC Pre	redicted No-Effect Concentration
RID Re	egulations concerning the International Carriage of Dangerous Goods by Rail
SDS Sa	afety Data Sheet
STP Se	ewage treatment plant
ThOD Th	heoretical oxygen demand (ThOD)
TLM Me	ledian Tolerance Limit
VOC Vo	olatile Organic Compounds
CAS-No. Ch	hemical Abstract Service number
N.O.S. No	ot Otherwise Specified

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Causes severe skin burns and eye damage.

Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms	
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties
Full text of H- and EUH-statements	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
H302	Harmful if swallowed.

Safety Data Sheet (SDS), EU

H314

H410

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.