# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended

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

#### 1.1 Product identifier

Trade name Product code EC-No.		Benzyldodecyldimethylammonium Bromide B3748 230-698-4
1.2 Relevant identified uses of the su	ıbst	ance or mixture and uses advised against
Use of the Substance/Mixture	:	Use as laboratory reagent
1.3 Details of the supplier of the safe	ty d	ata sheet
Company Address Telephone Telefax E-mail address of person respon- sible for the SDS		+32 (0)3 735 07 01
1.4 Emergency telephone number		
Emergency telephone number	:	+44 844 892 0111

# **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

# Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 3	H301: Toxic if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.

#### 2.2 Label elements

# Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word Hazard statements	:	Danger H301 Toxic if swallowed. H315 Causes skin irritation. H319 Causes serious eye irritation.
Precautionary statements	:	Prevention:
		<ul><li>P264 Wash skin thoroughly after handling.</li><li>P270 Do not eat, drink or smoke when using this product.</li><li>P280 Wear protective gloves/ eye protection/ face protection.</li></ul>
		Response:
		P301 + P310 + P330IF SWALLOWED: Immediately call aPOISON CENTER/ doctor. Rinse mouth.P337 + P313If eye irritation persists: Get medical advice/ attention.
		Disposal:
		P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Substance name:Benzyldodecyldimethylammonium BromideEC-No.:230-698-4

#### Components

Chemical name	CAS RN EC-No.	Concentration (% w/w)	M-Factor, SCL, ATE
Benzyldodecyldimethylammo- nium Bromide	7281-04-1 230-698-4	>= 90 - <= 100	

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

If inhaled	:	Remove person to fresh air and keep comfortable for breathing. Get medical advice/ attention if you feel unwell.
In case of skin contact	:	Take off all contaminated clothing immediately. Wash off with plenty of water. If skin irritation occurs: Get medical advice/ attention.
In case of eye contact	:	Rinse with plenty of water. If easy to do, remove contact lens, if worn. If eye irritation persists: Get medical advice/ attention.
If swallowed	:	Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

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

None known.

**4.3 Indication of any immediate medical attention and special treatment needed** None known.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Suitable extinguishing media	:	Dry powder, Foam, Water spray, Carbon dioxide (CO2)
5.2 Special hazards arising from the	su	bstance or mixture
Specific hazards during fire- fighting	:	No information available.
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Use personal protective equipment.
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circum- stances and the surrounding environment. Immediately evacuate personnel to safe areas. Remove undamaged containers from fire area if it is safe to do so.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions	:	Wear suitable protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be con-trolled around the leakage area by roping off, etc.		
6.2 Environmental precautions				
Environmental precautions	:	Prevent product from entering drains.		
6.3 Methods and material for containment and cleaning up				
Methods for cleaning up	:	Pick up and arrange disposal without creating dust.		
6.4 Reference to other sections				

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling		
Technical measures	:	Prevent dispersion of dust.
Local/Total ventilation	:	Ensure adequate ventilation. Handle product only in closed system or provide appropriate exhaust ventilation at machinery. Use a local exhaust ventilation.
Advice on safe handling	:	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Wash hands and face thoroughly after handling.
7.2 Conditions for safe storage, incl	udi	ng any incompatibilities
Requirements for storage areas and containers	:	Keep container tightly closed. Store in a cool and shaded area. Pro- tect from moisture. Keep under inert gas. Store locked up.
Storage class (TRGS 510)	:	6.1C
7.3 Specific end use(s)		
Specific use(s)	:	No information available.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

# Engineering measures Install a closed system or local exhaust.

Also install safety shower and eye bath.

Personal protective equipment				
Eye/face protection Hand protection Skin and body protection	:	Safety glasses, Safety goggles, Face-shield Impervious gloves Impervious protective clothing		
Respiratory protection	:	Dustproof gas mask Self-contained breathing apparatus		

\*Use personal protective equipment(PPE) approved under appropriate government standards and follow local and national regulations.

# **SECTION 9: Physical and chemical properties**

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

Physical state	:	Solid form
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	54 °C
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit/Upper		No data available
flammability limit	-	
Lower explosion limit/Lower		No data available
flammability limit	•	
Flash point		No data available
Auto-ignition point	:	No data available
Decomposition temperature	:	No data available
	:	No data available
pH Viacosity	·	NU Udla avaliable
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available
octanol/water (log value)		
Vapour pressure	:	No data available
Relative density	:	No data available
Relative vapour density	:	No data available
Particle characteristics		No data available
	-	
9.2 Other information		
Molecular weight	:	384,45 g/mol
		,

# **SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b> No data available			
<b>10.2 Chemical stability</b> Stable under normal conditions.			
<b>10.3 Possibility of hazardous reactions</b> Hazardous reactions :	None under normal processing.		
<b>10.4 Conditions to avoid</b> Conditions to avoid :	Exposure to moisture,		
<b>10.5 Incompatible materials</b> Materials to avoid :	Oxidizing agents,		
<b>10.6 Hazardous decomposition products</b> Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), hydrogen bromide			

# **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute toxicity

#### Product:

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Acute oral toxicity	:	Assessment: The component/mixture is toxic after single ingestion.		
Components:				
Benzyldodecyldimethylammoni	um	Bromide:		
Acute oral toxicity	:	LD50 (Rat): 230 mg/kg Assessment: The component/mixture is toxic after single ingestion.		
Acute toxicity (other routes of administration)	:	LD50 (Rat): 90 mg/kg Application Route: Intraperitoneal injection		
Skin corrosion/irritation				
Product:				
Result	:	Skin irritation		
Components:				
Benzyldodecyldimethylammonium Bromide:				
Result	:	Skin irritation		
Serious eye damage/eye irritatio	on			
Product:				
Result	:	Eye irritation		
Components:				
Benzyldodecyldimethylammoni	um	Bromide:		
Result	:	Eye irritation		
Respiratory or skin sensitisa- tion	:	No information available.		
Germ cell mutagenicity	:	No information available.		
Carcinogenicity	:	No information available.		
Reproductive toxicity	:	No information available.		
STOT - single exposure	:	No information available.		
STOT - repeated exposure	:	No information available.		
Repeated dose toxicity	:	No information available.		
Aspiration hazard RTECS No.	:	No information available. BO7875000 (Benzyldodecyldimethylammonium Bromide)		

### 11.2 Information on other hazards

Endocrine disrupting properties

#### Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

# **SECTION 12: Ecological information**

- 12.1 Toxicity
  - No data available
- 12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential				
No data available				
12.4 Mobility in soil				
No data available				
12.5 Results of PBT and vPvB ass	sessment			
Product:				
Assessment	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
12.6 Endocrine disrupting proper	ties			
Product:				
Assessment	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.			
12.7 Other adverse effects				
No data available				
SECTION 13: Disposal considerations				
13.1 Waste treatment methods				
Product	: Disposal in accordance with local and national regulations. Entrust disposal to a licensed waste disposal company.			
Contaminated packaging	: Disposal in accordance with local and national regulations. Before disposal of used container, remove contents completely.			

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# **SECTION 14: Transport information**

# 14.1 UN number or ID number

ADR	:	UN 2811	
IMDG	:	UN 2811	
ΙΑΤΑ	:	UN 2811	
14.2 UN proper shipping name			
ADR	:	TOXIC SOLID, ORGAN	IC, N.O.S.
IMDG	:	TOXIC SOLID, ORGAN	IIC, N.O.S.
ΙΑΤΑ	:	Toxic solid, organic, n.o	.S.
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADR	:	6.1	
IMDG	:	6.1	
ΙΑΤΑ	:	6.1	
14.4 Packing group			
ADR Packing group Classification Code Hazard Identification Number Tunnel restriction code IMDG		III T2 60 (E)	

Packing group EmS Code	:	III F-A, S-A	
IATA (Cargo) Packing instruction (cargo air- craft)	:	677	
Packing instruction (LQ) Packing group	:	Y645 III	
IATA (Passenger) Packing instruction (passenger aircraft)	:	670	
Packing instruction (LQ) Packing group	:	Y645 III	
14.5 Environmental hazards			

#### ADR

Environmentally hazardous : no

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the mar- ket and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable	
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable	
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable	
Regulation (EC) No 850/2004 on persistent organic pollutants	:	Not applicable	
Regulation (EU) No 649/2012 of the European Parliament and : Not applicable the Council concerning the export and import of dangerous chemicals			
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable	
Water hazard class (Germany) : WGK 2 obviously hazardous to water			

#### Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Classification according to AwSV, Annex 1 (5.2)

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:			
CH BAGREG	:	On the inventory, or in compliance with the inventory	
TSCA	:	All substances listed as active on the TSCA inventory	

AICS	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
ISHL	:	On the inventory, or in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

# **SECTION 16: Other information**

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR -(Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

This SDS was prepared sincerely based on the information obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling operations, sufficient care should be taken, in addition to the safety measures suitable for the given situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

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