

## SAFETY DATA SHEET BaraCide W-960

according to Regulation (EC) No. 2015/830

Revision Date: 11-Dec-2019  
Preparation Date 11-Dec-2019

Revision Number: 3  
Internal ID Code HB000001

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

#### 1.1. Product Identifier

Product Name BaraCide W-960  
Internal ID Code HB000001

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Biocide
Sector of uses	SU2 - Mining, (including offshore industries)
Process categories	PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC15 - Use as a laboratory reagent
Environmental release category(ies)	ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles
Uses advised against	Consumer use

#### 1.3. Details of the supplier of the safety data sheet

Halliburton Energy Services  
Halliburton House, Howemoss Place  
Kirkhill Industrial Estate  
Dyce  
Aberdeen, AB21 0GN  
United Kingdom  
+44 1224 776888

[www.halliburton.com](http://www.halliburton.com)

For further information, please contact

**E-mail Address:** [fdunexchem@halliburton.com](mailto:fdunexchem@halliburton.com)

#### 1.4. Emergency telephone number

+44 8 08 189 0979 / 1-760-476-3961

Global Incident Response Access Code: 334305

Contract Number: 14012

Emergency telephone - Article 45 - (EC)1272/2008	
Austria	Poison Information Centre (AT): +43-(0)1-406 43 43
Belgium	Poison center (BE): +32 70 245 245
Bulgaria	Bulgarian poison centre: +359 2 915-44-09 or +359 2 915-43-46
Croatia	Centar za kontrolu otrovanja (CKO): (+385 1) 23-48-342 (Poison Control Center (PCC) - Institute for Medical Research and Occupational Health)
Cyprus	+357 1401
Czech Republic	+420 224 919 293; +420 224 915 402
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Estonia	16662 (Local Poison Information Centre); (+372) 626 93 90 (International Poison Information Centre)
Europe	112
Finland	Poison Information Centre (FI):+358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Germany	Poison Center Berlin (DE): +49 030 30686 790
Greece	+30 210 779 3777
Hungary	+36 (06) 80 201-199
Latvia	(+371) 67042473 (International number for the National Toxicology Centre)

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<b>Ireland</b>	National Poisons Information Centre (IE): +353 1 8379964
<b>Italy</b>	Poison Center, Milan (IT): +39 02 6610 1029
<b>Netherlands</b>	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
<b>Norway</b>	Poisons Information (NO):+ 47 22 591300
<b>Poland</b>	Poison Control and Information Centre, Warsaw (PL): +48 22 619 66 54; +48 22 619 08 97
<b>Portugal</b>	CIAV - Centro de Informação Antivenenos (Portuguese Poison Centre): + 351 213 303 271
<b>Romania</b>	+40 21 318 36 06
<b>Spain</b>	Poison Information Service (ES): +34 91 562 04 20
<b>Sweden</b>	Poisons Information Center (SV):+46 8 33 12 31
<b>Switzerland</b>	Poison Center: Tel 145; +41 44 251 51 51
<b>Turkey</b>	Ulusal Zehir Danisma Merkezi (UZEM) :114 Acil Saglik Hizmetleri : 112
<b>United Kingdom</b>	NHS Direct (UK): +44 0845 46 47

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Regulation (EC) No 1272/2008**

Acute Oral Toxicity	Category 4 - H302
Skin Corrosion/Irritation	Category 1 B - H314
Specific Target Organ Toxicity - (Repeated Exposure)	Category 2 - H373
Acute Aquatic Toxicity	Category 1 - H400
Chronic Aquatic Toxicity	Category 2 - H411

**2.2. Label Elements**

**Hazard Pictograms**



**Signal Word:**

**Danger**

**Hazard Statements:**

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

**Precautionary Statements:**

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**Contains**

**Substances**

Didecyldimethylammonium chloride

Ethane-1,2-diol

**CAS Number**

7173-51-5

107-21-1

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**2.3. Other Hazards**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).  
This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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

**3.2. Mixtures**

Mixture

Substances	EINECS	CAS Number	PERCENT (w/w)	EU - CLP Substance Classification	REACH Reg. No
Didecyltrimethylammonium chloride	230-525-2	7173-51-5	70 - 90	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	No data available
Ethane-1,2-diol	203-473-3	107-21-1	15 - 20	Acute Tox. 4 (H302) STOT RE 2 (H373)	01-2119456816-28

For the full text of the H-phrases mentioned in this Section, see Section 16

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**Skin** Flush skin with large amounts of water. If irritation persists, get medical attention.

**Ingestion** Do NOT induce vomiting. Rinse mouth with water many times. Get medical attention, if symptoms occur

**4.2. Most important symptoms and effects, both acute and delayed**

Causes severe skin burns and eye damage. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable Extinguishing Media**

All standard fire fighting media

**Extinguishing media which must not be used for safety reasons**

Water spray jet

**5.2. Special hazards arising from the substance or mixture**

**Special exposure hazards in a fire**

Decomposition in fire may produce harmful gases.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters**

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Use appropriate protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Ensure adequate ventilation.

See Section 8 for additional information

**6.2. Environmental precautions**

Prevent from entering sewers, waterways, or low areas. Consult local authorities.

**6.3. Methods and material for containment and cleaning up**

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Scoop up and remove.

**6.4. Reference to other sections**

See Section 8 and 13 for additional information.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Use appropriate protective equipment. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Ensure adequate ventilation. Wash hands after use. Launder contaminated clothing before reuse.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in original container. Store in a cool well ventilated area. Keep container closed when not in use. Store away from oxidizers. Store away from acids. Keep Away From Food

**7.3. Specific end use(s)**

**Exposure scenario** No information available

**Other Guidelines** No information available

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

**8.1. Control parameters**

**Exposure Limits**

Substances	CAS Number	EU	UK	Netherlands	France
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable	Not applicable	Not applicable
Ethane-1,2-diol	107-21-1	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup>	TWA: 52 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup> STEL: 104 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>

Substances	CAS Number	Germany	Spain	Portugal	Finland
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable	Not applicable	Not applicable
Ethane-1,2-diol	107-21-1	TWA: 10 ppm TWA: 26 mg/m <sup>3</sup>  Peak: 20 ppm Peak: 52 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> 40 ppm STEL [VLA-EC]; 104 mg/m <sup>3</sup> STEL [VLA-EC]	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup> Ceiling: 100 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 50 mg/m <sup>3</sup> STEL: 40 ppm STEL: 100 mg/m <sup>3</sup>

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable	Not applicable	Not applicable
Ethane-1,2-diol	107-21-1	TWA: 10 ppm TWA: 26 mg/m <sup>3</sup> STEL" 20 ppm STEL" 52 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> TWA (particulate); 20 ppm TWA (vapour); 52 mg/m <sup>3</sup> TWA (vapour)	TWA: 10 ppm TWA: 26 mg/m <sup>3</sup> STEL: 20 ppm STEL: 52 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 104 mg/m <sup>3</sup> STEL: 40 ppm

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			40 ppm STEL (vapour); 30 mg/m <sup>3</sup> STEL (calculated, particulate); 104 mg/m <sup>3</sup> STEL (vapour)		
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Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable	Not applicable	Not applicable
Ethane-1,2-diol	107-21-1	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> STEL: 50 mg/m <sup>3</sup>	TWA: 52 mg/m <sup>3</sup> STEL: 104 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup>

Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable	Not applicable	Not applicable
Ethane-1,2-diol	107-21-1	TWA: 10 ppm TWA: 26 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>

Substances	CAS Number	Bulgaria	Turkey
Ethane-1,2-diol	107-21-1	TWA: 52 mg/m <sup>3</sup> TWA: 20 ppm STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>	TWA: 20 ppm TWA: 52 mg/m <sup>3</sup> STEL: 40 ppm STEL: 104 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)**

No information available

**Worker**

Substances	Long-term exposure - systemic effects, Inhalation	Acute / short term exposure - systemic effects, Inhalation	Long-term exposure - local effects, Inhalation	Acute / short term exposure - local effects, Inhalation	Long-term exposure - systemic effects, Dermal	Acute / short term exposure - systemic effects, Dermal	Long-term exposure - local effects, Dermal	Acute / short term exposure - local effects, Dermal	Hazards for the eyes - local effects
Ethane-1,2-diol	Not available	Not available	35 mg/m <sup>3</sup>	Not available	106 mg/kg bw/day	Not available	Not available	Not available	Not available

**General Population**

Substances	Long-term exposure - systemic effects, Inhalation	Acute / short term exposure - systemic effects, Inhalation	Long-term exposure - local effects, Inhalation	Acute / short term exposure - local effects, Inhalation	Long-term exposure - systemic effects, Dermal	Acute / short term exposure - systemic effects, Dermal	Long-term exposure - local effects, Dermal	Acute / short term exposure - local effects, Dermal	Long-term exposure - systemic effects, Oral	Acute / short term exposure - local effects, Oral	Hazards for the eyes - local effects
Ethane-1,2-diol	Not available	Not available	7 mg/m <sup>3</sup>	Not available	53 mg/kg bw/day	Not available	Not available	Not available	Not available	Not available	Not available

**Predicted No Effect Concentration (PNEC)**

No information available.

Substances	Freshwater	Marine water	Intermittent release	Sewage treatment plant	Sediment (freshwater)	Sediment (marine water)	Air	Soil	Secondary poisoning
Ethane-1,2-diol	10 mg/L	1 mg/L	10 mg/L	199.5 mg/L	37 mg/kg sediment dw	3.7 mg/kg sediment dw	Not available	1.53 mg/kg soil dw	Not available

**8.2. Exposure controls**

**Engineering Controls**

Use in a well ventilated area.

**Personal protective equipment**

If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

**Respiratory Protection**

If engineering controls and work practices cannot keep exposure below occupational

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**Hand Protection**

**Skin Protection**

**Eye Protection**

**Other Precautions**

exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.  
Nitrile gloves. Chemical-resistant protective gloves (EN 374) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):  
Wear impervious protective clothing, including boots, gloves, lab coat, apron, rain jacket, pants or coverall, as appropriate, to prevent skin contact.  
Chemical goggles; also wear a face shield if splashing hazard exists.  
None known.

**Environmental Exposure Controls** No information available

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Physical State:</b> Liquid	<b>Color</b>	Light yellow
<b>Odor:</b> Odorless	<b>Odor</b>	No information available
<u>Property</u>	<b>Threshold:</b>	
<u>Remarks/ - Method</u>	<u>Values</u>	
<b>pH:</b>	6-7.5 (20C; 10 g/L)	
<b>Freezing Point / Range</b>	No data available	
<b>Melting Point / Range</b>	No data available	
<b>Pour Point / Range</b>	No data available	
<b>Boiling Point / Range</b>	No data available	
<b>Flash Point</b>	> 100 °C / > 212 °F	
<b>Flammability (solid, gas)</b>	No data available	
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Evaporation rate</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>Vapor Density</b>	No data available	
<b>Specific Gravity</b>	0.94 (20 °C/68 °F)	
<b>Water Solubility</b>	Miscible with water	
<b>Solubility in other solvents</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Autoignition Temperature</b>	No data available	
<b>Decomposition Temperature</b>	No data available	
<b>Viscosity</b>	120-220 mPas @ 120-220°C	
<b>Explosive Properties</b>	No information available	
<b>Oxidizing Properties</b>	No information available	

**9.2. Other information**

**VOC Content (%)** No data available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Not expected to be reactive.

**10.2. Chemical stability**

Stable under normal conditions

**10.3. Possibility of hazardous reactions**

Will Not Occur

**10.4. Conditions to avoid**

Excessive heat

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**10.5. Incompatible materials**

Strong oxidizers. Strong acids. Strong alkalis.

**10.6. Hazardous decomposition products**

None known.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute Toxicity**

<b>Inhalation</b>	May cause mild respiratory irritation.
<b>Eye Contact</b>	May cause mild eye irritation.
<b>Skin Contact</b>	May cause mild skin irritation.
<b>Ingestion</b>	May cause abdominal pain, vomiting, nausea, and diarrhea.

**Chronic Effects/Carcinogenicity** No data available to indicate product or components present at greater than 0.1% are chronic health hazards.

**LD50 Oral:** 300.92 mg/kg

**Toxicology data for the components**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Didecyldimethylammonium chloride	7173-51-5	329 mg/kg-bw (rat)	2930 mg/kg-bw (rabbit)	No data available
Ethane-1,2-diol	107-21-1	1400 mg/kg bw (Human)	9530 mg/kg (Rabbit)	> 2.5 mg/L (Rat, mist, 6h) (saturated concentration)

Rat = Rat, Rabbit = Rabbit, dust = dust

Substances	CAS Number	Skin corrosion/irritation
Didecyldimethylammonium chloride	7173-51-5	Skin, rabbit: Causes severe skin irritation with tissue destruction. Causes burns
Ethane-1,2-diol	107-21-1	Non-irritating to the skin (Rabbit)

Substances	CAS Number	Serious eye damage/irritation
Didecyldimethylammonium chloride	7173-51-5	Corrosive to eyes Causes severe irritation and or burns Eye, rabbit:
Ethane-1,2-diol	107-21-1	Non-irritating to the eye (Rabbit)

Substances	CAS Number	Skin Sensitization
Didecyldimethylammonium chloride	7173-51-5	Did not cause sensitization on laboratory animals (guinea pig)
Ethane-1,2-diol	107-21-1	Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate sensitization properties

Substances	CAS Number	Respiratory Sensitization
Didecyldimethylammonium chloride	7173-51-5	No information available
Ethane-1,2-diol	107-21-1	No information available

Substances	CAS Number	Mutagenic Effects
Didecyldimethylammonium chloride	7173-51-5	In vivo tests did not show mutagenic effects. In vitro tests did not show mutagenic effects.
Ethane-1,2-diol	107-21-1	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.

Substances	CAS Number	Carcinogenic Effects
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Didecyldimethylammonium chloride	7173-51-5	Did not show carcinogenic effects in animal experiments
Ethane-1,2-diol	107-21-1	Did not show carcinogenic effects in animal experiments

Substances	CAS Number	Reproductive toxicity
Didecyldimethylammonium chloride	7173-51-5	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments.
Ethane-1,2-diol	107-21-1	Data are inconclusive or insufficient for classification. Fetotoxic and teratogenic effects observed in experimental animals at concentrations that did not produce maternal toxicity.

Substances	CAS Number	STOT - single exposure
Didecyldimethylammonium chloride	7173-51-5	May cause respiratory irritation.
Ethane-1,2-diol	107-21-1	May cause disorder and damage to the Kidney Central Nervous System (CNS) No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	STOT - repeated exposure
Didecyldimethylammonium chloride	7173-51-5	No data of sufficient quality are available. Not applicable due to corrosivity of the substance.
Ethane-1,2-diol	107-21-1	Not applicable No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	Aspiration hazard
Didecyldimethylammonium chloride	7173-51-5	Not applicable
Ethane-1,2-diol	107-21-1	No information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Didecyldimethylammonium chloride	7173-51-5	ErC50 (96 h) =0.053 mg/L (Pseudokirchnerella subcapitata)	LC50 (96 h) =0.97 mg/L (Danio rerio)	EC50 (3h) 17.95 mg/L (Activated sludge)	EC50 (48 h) =0.057 mg/L (Daphnia magna) NOEC (21 d) =0.021 mg/L (Daphnia magna)
Ethane-1,2-diol	107-21-1	EC50 (72h) 6500 - 13000 mg/L (Selenastrum capricornutum)	LC50 (96h) 72860 mg/L (Pimephales promelas) NOEC (7d) 15380 mg/L (Pimephales promelas)	No information available	EC50(48 hr)>100 mg/L (Daphnia magna ) NOEC (7d) 8590 mg/L (Ceriodaphnia dubia)

growth rate = growth rate, similar substance = similar substance, activated sludge = activated sludge, reproduction = reproduction

### 12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Didecyldimethylammonium chloride	7173-51-5	Readily biodegradable (69% @ 28d)
Ethane-1,2-diol	107-21-1	Readily biodegradable (100% @ <4d)

### 12.3. Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Didecyldimethylammonium chloride	7173-51-5	-0.41 BCF = 2.1
Ethane-1,2-diol	107-21-1	LogKow-1.36

### 12.4. Mobility in soil



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Substances	CAS Number	Mobility
Didecyldimethylammonium chloride	7173-51-5	KOC = >667
Ethane-1,2-diol	107-21-1	No information available

**12.5. Results of PBT and vPvB assessment**

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Substances	PBT and vPvB assessment
Didecyldimethylammonium chloride	Not PBT/vPvB
Ethane-1,2-diol	Not PBT/vPvB

**12.6. Other adverse effects**

**Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal methods**

Disposal should be made in accordance with federal, state, and local regulations. Substance should NOT be deposited into a sewage facility.

**Contaminated Packaging**

Follow all applicable national or local regulations.

**SECTION 14: Transport information**

**IMDG/IMO**

**UN Number** UN1760  
**UN proper shipping name:** Corrosive Liquid, N.O.S. (Didecyldimethylammonium chloride)  
**Transport Hazard Class(es):** 8  
**Packing Group:** II  
**Environmental Hazards:** Marine Pollutant

**ADN**

**UN Number** UN1760  
**UN proper shipping name:** Corrosive Liquid, N.O.S. (Didecyldimethylammonium chloride)  
**Transport Hazard Class(es):** 8  
**Packing Group** II  
**Environmental Hazards:** Marine Pollutant  
**Classification Code** C9

**ADR/RID**

**UN Number** UN1760  
**UN proper shipping name:** Corrosive Liquid, N.O.S. (Didecyldimethylammonium chloride)  
**Transport Hazard Class(es):** 8  
**Packing Group** II  
**Environmental Hazards:** Marine Pollutant  
**ADR/RID-Labels** 8

**IATA/ICAO**

**UN Number** UN1760  
**UN proper shipping name:** Corrosive Liquid, N.O.S. (Didecyldimethylammonium chloride)  
**Transport Hazard Class(es):** 8  
**Packing Group:** II  
**Environmental Hazards:** Marine Pollutant

**14.1. UN Number**

UN1760

**14.2. UN proper shipping name:**

Corrosive Liquid, N.O.S. (Didecyldimethylammonium chloride)

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**BaraCide W-960**  
according to Regulation (EC) No. 2015/830

Revision Date: 11-Dec-2019  
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Internal ID Code HB000001

**14.3. Transport Hazard Class(es):** 8

**14.4. Packing Group** II

**14.5. Environmental Hazards:** Marine Pollutant

**14.6. Special Precautions for User** None

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

**SECTION 15: Regulatory information**

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

**International Inventories**

**US TSCA Inventory** All components listed on inventory or are exempt.  
**Canadian Domestic Substances List (DSL)** All components listed on inventory or are exempt.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**Norway PR No.:** 618624

**Germany, Water Endangering Classes (WGK)** WGK 2: Hazard to waters.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.  
Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Substances	CAS Number	Seveso III	TA LUFT
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable
Ethane-1,2-diol	107-21-1	Not applicable	Not applicable

Substances	CAS Number	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization
Didecyldimethylammonium chloride	7173-51-5	Not applicable	Not applicable
Ethane-1,2-diol	107-21-1	Not applicable	Not applicable

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information**

**Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H373 - May cause damage to organs through prolonged or repeated exposure  
H400 - Very toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

**Key or legend to abbreviations and acronyms used in the safety data sheet**

bw – body weight  
CAS – Chemical Abstracts Service

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CLP – REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on Classification, Labelling and Packaging of substances and mixtures

EC – European Commission

EC10 – Effective Concentration 10%

EC50 – Effective Concentration 50%

EEC – European Economic Community

ErC50 – Effective Concentration growth rate 50%

IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 – Lethal Concentration 50%

LD50 – Lethal Dose 50%

LL0 – Lethal Loading 0%

LL50 – Lethal Loading 50%

MARPOL – International Convention for the Prevention of Pollution from Ships

mg/kg – milligram/kilogram

mg/L – milligram/liter

NIOSH – National Institute for Occupational Safety and Health

NOEC – No Observed Effect Concentration

NTP – National Toxicology Program

OEL – Occupational Exposure Limit

PBT – Persistent Bioaccumulative and Toxic

PC – Chemical Product category

PEL – Permissible Exposure Limit

ppm – parts per million

PROC – Process category

REACH – REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL – Short Term Exposure Limit

SU – Sector of Use category

**Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

**Revision Date:** 11-Dec-2019

**Revision Note**

SDS sections updated:

3

**This safety data sheet complies with the requirements of Regulation (EC) No. 2015/830**

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**End of Safety Data Sheet**