





**Signal Word**

**Danger**

**Hazard Statements**

- H304 - May be fatal if swallowed and enters airways
- H318 - Causes serious eye damage
- H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - EU (§28, 1272/2008)**

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P280 - Wear eye protection/face protection
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P331 - Do NOT induce vomiting
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 - Immediately call a POISON CENTER or doctor/physician
- P363 - Wash contaminated clothing before reuse
- P314 - Get medical attention/advice if you feel unwell
- P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

**Contains**

**Substances**

- Cesium formate
- Calcium bromide
- Paraffin, petroleum, normal C5-C20
- Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyloxy]-

**CAS Number**

- 3495-36-1
- 7789-41-5
- 64771-72-8
- 57635-48-0

**2.3. Other Hazards**

None known

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

Substances	EINECS	CAS Number	PERCENT (w/w)	EU - CLP Substance Classification	REACH No.
Cesium formate	222-492-8	3495-36-1	10 - 30%	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) STOT RE 2 (H373)	No data available
Calcium bromide	232-164-6	7789-41-5	10 - 30%	Eye Corr. 1 (H318)	01-2119490040-51
Paraffin, petroleum, normal C5-C20	265-233-4	64771-72-8	10 - 30%	Asp. Tox. 1 (H304) (EUH066)	No data available
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyloxy]-	611-563-2	57635-48-0	1 - 5%	Skin Irrit. 2 (H315) Eye Corr. 1 (H318)	No data available

**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**

Immediately flush eyes with large amounts of water for at least 30 minutes.

**Skin** Seek prompt medical attention. Check for and remove contact lenses if present.  
**Ingestion** Wash with soap and water. Get medical attention if irritation persists.  
 Do NOT induce vomiting. Give nothing by mouth. Obtain immediate medical attention.

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

Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. Prolonged or repeated exposure may cause damage to organs. May cause allergic skin reaction. Causes serious eye damage. Causes severe eye irritation which may damage tissue.

**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**

None known.

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

**Special Exposure Hazards**

Decomposition in fire may produce harmful gases.

**5.3. Advice for firefighters**

**Special Protective Equipment for Fire-Fighters**

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

**SECTION 6: Accidental release measures**

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

Use appropriate protective equipment.  
 See Section 8 for additional information

**6.2. Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

**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**

Avoid contact with eyes, skin, or clothing. Avoid breathing mist.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

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

Store in a cool well ventilated area. Keep container closed when not in use.

**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
Cesium formate	3495-36-1	Not applicable	Not applicable	Not applicable	Not applicable
Calcium bromide	7789-41-5	Not applicable	10 mg/m <sup>3</sup>	Not applicable	Not applicable

Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyloxy]-	57635-48-0	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Germany	Spain	Portugal	Finland
Cesium formate	3495-36-1	Not applicable	Not applicable	Not applicable	Not applicable
Calcium bromide	7789-41-5	Not applicable	Not applicable	Not applicable	Not applicable
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyloxy]-	57635-48-0	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Austria	Ireland	Switzerland	Norway
Cesium formate	3495-36-1	Not applicable	Not applicable	Not applicable	Not applicable
Calcium bromide	7789-41-5	Not applicable	Not applicable	Not applicable	Not applicable
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyloxy]-	57635-48-0	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Italy	Poland	Hungary	Czech Republic
Cesium formate	3495-36-1	Not applicable	Not applicable	Not applicable	Not applicable
Calcium bromide	7789-41-5	Not applicable	Not applicable	Not applicable	Not applicable
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyloxy]-	57635-48-0	Not applicable	Not applicable	Not applicable	Not applicable

Substances	CAS Number	Denmark	Romania	Croatia	Cyprus
Cesium formate	3495-36-1	Not applicable	Not applicable	Not applicable	Not applicable
Calcium bromide	7789-41-5	Not applicable	Not applicable	Not applicable	Not applicable
Paraffin, petroleum, normal C5-C20	64771-72-8	Not applicable	Not applicable	Not applicable	Not applicable
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyloxy]-	57635-48-0	Not applicable	Not applicable	Not applicable	Not applicable

**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
Calcium bromide	1.4 mg/m <sup>3</sup>	Not available	Not available	500 mg/m <sup>3</sup>	0.2 mg/kg bw/d	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
Calcium bromide	0.25 mg/m <sup>3</sup>	Not available	Not available	Not available	0.073 mg/kg bw/d	Not available	Not available	Not available	0.073 mg/kg bw/d	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
Calcium bromide	0.117 mg/L	0.058 mg/L	0.208 mg/L	77.7 mg/L	0.433 mg/kg sediment dw	0.215 mg/kg sediment dw	Not available	0.2 mg/kg soil dw	No potential for bioaccumulat

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**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 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. Not normally needed. But if significant exposures are possible then the following respirator is recommended:  
Dust/mist respirator. (N95, P2/P3)

**Hand Protection**

Impervious rubber gloves. Neoprene gloves. Nitrile gloves. Polyvinylchloride gloves.

**Skin Protection**

Rubber apron.

**Eye Protection**

Chemical goggles; also wear a face shield if splashing hazard exists.

**Other Precautions**

Eyewash fountains and safety showers must be easily accessible.

**Environmental Exposure Controls** No information available

**SECTION 9: Physical and Chemical Properties**

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

**Physical State:** Liquid **Color:** Off white to Brown  
**Odor:** Hydrocarbon **Odor Threshold:** No information available

<u>Property</u> Remarks/ - Method	<u>Values</u>
<b>pH:</b>	No data available
<b>Freezing Point/Range</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Range</b>	No data available
<b>Flash Point</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
upper flammability limit	No data available
lower flammability limit	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>	1.1-1.6
<b>Water Solubility</b>	Insoluble in 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>	No data available
<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

**10.3. Possibility of Hazardous Reactions**

Will Not Occur

**10.4. Conditions to Avoid**

None anticipated

**10.5. Incompatible Materials**

Strong oxidizers.

**10.6. Hazardous Decomposition Products**

Carbon monoxide and carbon dioxide. Aldehydes. Formic acid. Bromine. Oxides of nitrogen.

**SECTION 11: Toxicological Information**

**11.1. Information on Toxicological Effects**

**Acute Toxicity**

<b>Inhalation</b>	May cause respiratory irritation.
<b>Eye Contact</b>	Causes serious eye damage
<b>Skin Contact</b>	May cause mild skin irritation.
<b>Ingestion</b>	May be harmful if swallowed. Aspiration can be a hazard if this material is swallowed.

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

**Toxicology data for the components**

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cesium formate	3495-36-1	1780 mg/kg (Rat) 2000 mg/kg (Rat)	2000 mg/kg (Rat)	No data available
Calcium bromide	7789-41-5	2447 mg/kg (Rat) 2210 mg/kg (Rat)	>2000 mg/kg (Rabbit)	> 203 mg/L (Rat, aerosol, 1h) > 204 mg/L (Rat, dust, 1h)
Paraffin, petroleum, normal C5-C20	64771-72-8	> 5000 mg/kg (Rat)	> 2000 mg.kg (Rabbit) (similar substance)	>1369 ppm (Rat, 8h, saturated) (similar substance)
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	> 2000 mg/kg (Rat)	> 10000 mg/kg (Rabbit) (similar substance)	No data available

Substances	CAS Number	Skin corrosion/irritation
Cesium formate	3495-36-1	Non-irritating to the skin (Rabbit)
Calcium bromide	7789-41-5	Non-irritating to the skin (Rabbit)
Paraffin, petroleum, normal C5-C20	64771-72-8	Not irritating to skin in rabbits.
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	Causes skin irritation.

Substances	CAS Number	Eye damage/irritation
Cesium formate	3495-36-1	Irritating to eyes. (Rabbit)
Calcium bromide	7789-41-5	Causes severe eye irritation. (Rabbit)
Paraffin, petroleum, normal C5-C20	64771-72-8	Non-irritating to rabbit's eye (similar substances)
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	Corrosive to eyes

Substances	CAS Number	Skin Sensitization
Cesium formate	3495-36-1	Did not cause sensitization on laboratory animals (mouse)
Calcium bromide	7789-41-5	Did not cause sensitization on laboratory animals (guinea pig)
Paraffin, petroleum, normal C5-C20	64771-72-8	Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate irritating properties
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	Did not cause sensitization on laboratory animals (similar substances)

Substances	CAS Number	Respiratory Sensitization
Cesium formate	3495-36-1	No information available
Calcium bromide	7789-41-5	No information available
Paraffin, petroleum, normal C5-C20	64771-72-8	No information available
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	No information available

Substances	CAS	Mutagenic Effects
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	Number	
Cesium formate	3495-36-1	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects.
Calcium bromide	7789-41-5	In vitro tests did not show mutagenic effects
Paraffin, petroleum, normal C5-C20	64771-72-8	In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects.
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects. (similar substances)

Substances	CAS Number	Carcinogenic Effects
Cesium formate	3495-36-1	No information available.
Calcium bromide	7789-41-5	Did not show carcinogenic effects in animal experiments (similar substances)
Paraffin, petroleum, normal C5-C20	64771-72-8	Not regarded as carcinogenic. (similar substances)
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	No information available.

Substances	CAS Number	Reproductive toxicity
Cesium formate	3495-36-1	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
Calcium bromide	7789-41-5	Animal testing did not show any effects on fertility. Adverse developmental effects were only observed at maternally toxic doses. (similar substances)
Paraffin, petroleum, normal C5-C20	64771-72-8	Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	No data of sufficient quality are available.

Substances	CAS Number	STOT - single exposure
Cesium formate	3495-36-1	No data of sufficient quality are available.
Calcium bromide	7789-41-5	No significant toxicity observed in animal studies at concentration requiring classification.
Paraffin, petroleum, normal C5-C20	64771-72-8	No significant toxicity observed in animal studies at concentration requiring classification.
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	No information available

Substances	CAS Number	STOT - repeated exposure
Cesium formate	3495-36-1	Causes damage to organs through prolonged or repeated exposure: Heart (Blood) Central Nervous System (CNS)
Calcium bromide	7789-41-5	No information available
Paraffin, petroleum, normal C5-C20	64771-72-8	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)

Substances	CAS Number	Aspiration hazard
Cesium formate	3495-36-1	Not applicable
Calcium bromide	7789-41-5	Not applicable
Paraffin, petroleum, normal C5-C20	64771-72-8	Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	Not applicable

## SECTION 12: Ecological Information

### 12.1. Toxicity Ecotoxicity Effects

Substances	CAS	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to
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	Number			Microorganisms	Invertebrates
Cesium formate	3495-36-1	EC50 (72h) 33 mg/L (Selenastrum capricornutum)	LC50 (96h) > 100 mg/L (Danio rerio)	No information available	EC50 (48hr) 35 mg/L (Daphnia magna)
Calcium bromide	7789-41-5	EC50 (48h) > 440 mg/L (Growth rate) (Skeletonema costatum) (similar substance)	LC50 (96h) > 440 mg/L (Scophthalmus maximus) (similar substance) LC50 (96h) > 1000 mg/L (Lepomis macrochirus) (similar substance) NOEC (124d) 10 mg/L (Poecelia reticulata) (similar substance)	EC50 (3h) > 1000 mg/L (activated sludge, domestic) (similar substance)	EC50 (48h) > 100 mg/L (Daphnia magna) NOEC (21d) 7.5 mg/L (Reproduction) (Daphnia magna) (similar substance)
Paraffin, petroleum, normal C5-C20	64771-72-8	EC50 (72h) 6935.35 mg/L (Skeletonema costatum)	LC50 (96h) > 5000 mg/L (Pimephales promelas) LC50 (96h) > 1000 mg/L (Scophthalmus maximus)	No information available	EL50 (48h) > 1000 mg/L (Daphnia Magna) LC50 (48h) > 1000 mg/L (Acartia tonsa)
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	EC50 (72h): 25.21 mg/L (Skeletonema costatum)	EC50 (96h): 29.25 mg/L (Scophthalmus maximus) NOEC(10d): 416.78 mg/kg (Corophium volutator)	No information available	EC50 (48h): 597.37 mg/L (Acartia tonsa)

**12.2. Persistence and degradability**

Substances	CAS Number	Persistence and Degradability
Cesium formate	3495-36-1	(66% @ 28d)
Calcium bromide	7789-41-5	The methods for determining biodegradability are not applicable to inorganic substances.
Paraffin, petroleum, normal C5-C20	64771-72-8	Readily biodegradable (74% @ 28d)
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	Readily biodegradable (83% @ 28d)

**12.3. Bioaccumulative potential**

Substances	CAS Number	Log Pow
Cesium formate	3495-36-1	< -2.20
Calcium bromide	7789-41-5	No information available
Paraffin, petroleum, normal C5-C20	64771-72-8	> 6
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	4.91

**12.4. Mobility in soil**

Substances	CAS Number	Mobility
Cesium formate	3495-36-1	No information available
Calcium bromide	7789-41-5	No information available
Paraffin, petroleum, normal C5-C20	64771-72-8	No information available
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	57635-48-0	No information available

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

No information available.

Substances	PBT and vPvB assessment
Cesium formate	Not PBT/vPvB
Calcium bromide	Not applicable
Paraffin, petroleum, normal C5-C20	Not PBT/vPvB
Poly(oxy-1,2-ethanediyl), a-(carboxymethyl)-w-[(9Z)-9-octadecenyl]-	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 Method** Disposal should be made in accordance with federal, state, and local regulations.  
**Contaminated Packaging** Follow all applicable national or local regulations.

**SECTION 14: Transport Information**

**IMDG/IMO**

**UN Number:** Not restricted  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

**RID**

**UN Number:** Not restricted  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

**ADR**

**UN Number:** Not restricted  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

**IATA/ICAO**

**UN Number:** Not restricted  
**UN Proper Shipping Name:** Not restricted  
**Transport Hazard Class(es):** Not applicable  
**Packing Group:** Not applicable  
**Environmental Hazards:** Not applicable

- 14.1. UN Number:** Not restricted
- 14.2. UN Proper Shipping Name:** Not restricted
- 14.3. Transport Hazard Class(es):** Not applicable
- 14.4. Packing Group:** Not applicable
- 14.5. Environmental Hazards:** Not applicable

**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**

**EINECS Inventory** This product, and all its components, complies with EINECS  
**US TSCA Inventory** All components listed on inventory or are exempt.  
**Canadian DSL Inventory** Product contains one or more components not listed on the inventory.

**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

**Germany, Water Endangering Classes (WGK)** WGK 1: Low hazard to waters.

**15.2. Chemical Safety Assessment**

No information available

**SECTION 16: Other Information****Full text of H-Statements referred to under sections 2 and 3**

None

**Key or legend to abbreviations and acronyms**

bw – body weight

CAS – Chemical Abstracts Service

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:** 04-Jan-2011**Revision Note**

Not applicable

**This safety data sheet complies with the requirements of Regulation (EC) No. 453/2010****Disclaimer Statement**

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**End of Safety Data Sheet**