## MERCURIC CHLORIDE EXTRA PURE MSDS



# CAS No: 7487-94-7 MSDS

### **MATERIAL SAFETY DATA SHEET (MSDS)**

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

1.1. Product identifier	
Product form	: Substance
	:
EC index no	: 080-010-00-X
EC no	: 231-299-8
CAS No	: 7487-94-7
Product code	: 04572
Synonyms	: Mercury(II) chloride

#### 1.2. Relevant identified uses of the substance 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 data sheet
Labogens Fine Chem Industries 1st Floor , Above Bank of India, Ludhiana Pb. (141007) +91 9316777775, +91 7707855 sales@labogens.com - www.L	00
1.4. Emergency telephone	number
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)

#### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according	to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity (oral), Category 1	H300
Skin corrosion/irritation, Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Germ cell mutagenicity, Category 2	H341
Reproductive toxicity, Category 2	H361f
Specific target organ toxicity — Repeated exposure, Category 1	H372
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

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Full text of classification categories and H statements : see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Muta.Cat.3; R68 Repr.Cat.3; R62 T+; R28 T; R48/24/25 C; R34 N; R50/53 Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (E	EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
Signal word (CLD)	GHS05 GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H300 - Fatal if swallowed</li> <li>H314 - Causes severe skin burns and eye damage</li> <li>H341 - Suspected of causing genetic defects</li> <li>H361f - Suspected of damaging fertility</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure</li> <li>H410 - Very toxic to aquatic life with long lasting effects</li> </ul>
Precautionary statements (CLP)	<ul> <li>P201 - Obtain special instructions before use</li> <li>P202 - Do not handle until all safety precautions have been read and understood</li> <li>P260 - Do not breathe dust/fume/gas/mist/vapours/spray</li> <li>P264 - Wash thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/</li> <li>P301+P330 + IF SWALLOWED: Rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water</li> <li>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P310 - Immediately call a POISON CENTER/doctor/</li> <li>P314 - Get medical advice/attention if you feel unwell</li> <li>P330 - Rinse mouth</li> <li>P391 - Collect spillage</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to {0 message=<specify accordance="" in="" international="" local="" national="" regional="" regulations="" with=""> default=hazardous or special waste collection point, in accordance with local, regional, national and/or international</specify></li> </ul>

Safety Data Sheet

regulation|filter=(\_)?DISPOSAL\_.+}

### 2.3. Other hazards

No additional information available

SECTIO	ON 3: Composition/info	rmation on ingredients	
3.1.	Substance		
Name	Cubotanoo	: MERCURIC CHLORIDE Extra Pure	
CAS No	)	: 7487-94-7	
EC no		: 231-299-8	
EC inde	ex no	: 080-010-00-X	

Full text of R- and H-phrases: see section 16

### 3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measu	Ires
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see on this label). Do NOT induce vomiting.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/injuries	<ul> <li>Causes severe skin burns and eye damage. Suspected of causing genetic defects. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Symptoms/injuries after inhalation	: Fatal if inhaled.
Symptoms/injuries after skin contact	: Fatal in contact with skin.
Symptoms/injuries after eye contact	: Causes serious eye damage.
Symptoms/injuries after ingestion	: Fatal if swallowed.
Chronic symptoms	: Suspected of damaging fertility.
4.3. Indication of any immediate r	nedical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	

Unsuitable extinguishing media

: Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture
No additional information available
5.3. Advice for firefighters
Protection during firefighting : Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures : Evacuate unnecessary personnel.
6.1.2. For emergency responders
Emergency procedures : Stop release.
Lineigency procedules . Stop release.
6.2. Environmental precautions
Very toxic to aquatic life with long lasting effects.
6.3. Methods and material for containment and cleaning up
Methods for cleaning up : Clean up immediately by sweeping or vacuum.
6.4. Reference to other sections
No additional information available
SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling : Do not breathe dust/fume/gas/mist/vapours/spray. Obtain special instructions before
use. Use personal protective equipment as required. Do not handle until all safety
precautions have been read and understood.
Hygiene measures : Wash thoroughly after handling. Do not eat, drink or smoke when using this
product. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including any incompatibilities
Technical measures : Comply with applicable regulations.
Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place.
Protect from moisture.
7.3. Specific end use(s)
No additional information available
SECTION 8: Exposure controls/personal protection
8.1. Control parameters

No additional information available

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8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear appropriate mask
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a Physical state	nd chemical properties : Solid
Molecular mass Colour	: 271.5 g/mol : White crystals.
Odour	: odourless.
Odour threshold	: No data available
рН	: 3.2 (0,2 M solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 277 °C
Freezing point	: No data available
Boiling point	: 302 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1 mm Hg at 136.20C
Relative vapour density at 20 °C	: 8.7
Relative density	: No data available
Density Solubility	: 5.4 g/cm³ : Water: 7.4 g/100ml
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

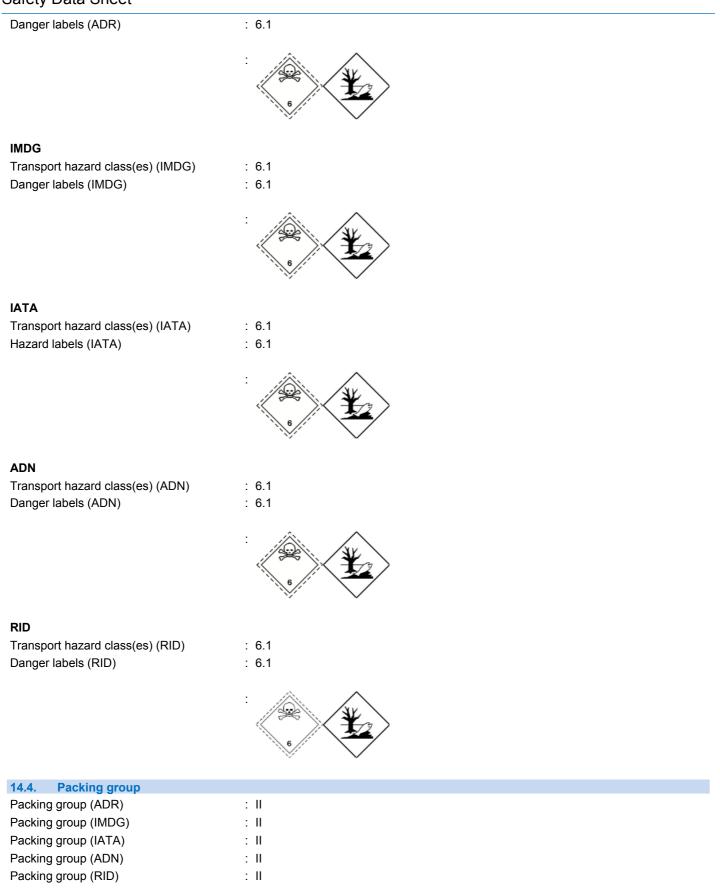
Safety Data Sheet

Salety Data Sheet	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Thermal decomposition generates : Corro	osive vapours.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ons
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pro	ducts
Thermal decomposition generates : Corro	osive vapours.
<b>SECTION 11: Toxicological information</b>	
11.1. Information on toxicological ef	ffects
Acute toxicity	: Oral: Fatal if swallowed.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
	pH: 3.2 (0,2 M solution)
Serious eye damage/irritation	: Causes serious eye damage.
	pH: 3.2 (0,2 M solution)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility.
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated	: Causes damage to organs through prolonged or repeated exposure.
exposure)	
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Fatal if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.

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MERCURIC CHI ORIDE Evtra Dura 174	87-94-7)
MERCURIC CHLORIDE Extra Pure (74 Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asse	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
Ecology - waste materials	: Hazardous waste due to toxicity.
n accordance with ADR / RID / IMDG / IA	TA / ADN
	TA / ADN
14.1. UN number	TA / ADN : 1624
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Dangerous for the environment: YesMarine pollutant: Yes	14.5.	Environmental hazards		
Marine pollutant : Yes	Danger	rous for the environment	: Yes	
	Marine	pollutant	: Yes	

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Other information

: No supplementary information available

### 14.6. Special precautions for user

Overland transmert		
- Overland transport Classification code (ADR)	:	Т5
Limited quantities (ADR)	:	500g
Excepted quantities (ADR)	:	500g E4
Packing instructions (ADR)	:	P002, IBC08
Special packing provisions (ADR)	:	B4
Mixed packing provisions (ADR)		MP10
Portable tank and bulk container		T3
instructions (ADR)	•	10
Portable tank and bulk container special	:	TP33
provisions (ADR)		00411
Tank code (ADR)	:	SGAH
Tank special provisions (ADR)	:	TU15, TE19
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V11
Special provisions for carriage - Loading,	:	CV13, CV28
unloading and handling (ADR)		S9. S19
Special provisions for carriage - Operation (ADR)	•	39, 319
Hazard identification number (Kemler No.)	:	60
Orange plates	:	60
		1624
Tunnel restriction code (ADR)	:	D/E
Tunnel restriction code (ADR) EAC code	-	D/E 2X
EAC code	-	
EAC code - Transport by sea	:	2X
EAC code - Transport by sea Limited quantities (IMDG)	:	2X 500 g
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG)	:	2X 500 g E4
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG)	:	2X 500 g E4 P002
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG)	: : : : : : : : : : : : : : : : : : : :	2X 500 g E4 P002 IBC08
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG)	: : : : : : : : : : : : : : : : : : : :	2X 500 g E4 P002 IBC08 B2, B4
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	: : : : : : : : : : : : : : : : : : : :	2X 500 g E4 P002 IBC08 B2, B4 T3
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG)	: : : : : : : : : : : : : : : : : : : :	2X 500 g E4 P002 IBC08 B2, B4 T3 TP33
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire)	· · · · · · · · · · · · · · · · · · ·	2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No - Air transport		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A 154
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A 154 E4
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATA)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A 154 E4 Y644 1kg
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A 154 E4 Y644 1kg 669
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A 154 E4 Y644 1kg 669 25kg
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No - Air transport PCA Excepted quantities (IATA) PCA limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA max net quantity (IATA) PCA max net quantity (IATA)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A 154 E4 Y644 1kg 669 25kg 676
EAC code - Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) MFAG-No - Air transport PCA Excepted quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA)		2X 500 g E4 P002 IBC08 B2, B4 T3 TP33 F-A S-A A 154 E4 Y644 1kg 669 25kg

Safety Data Sheet

- Inland waterway transport		
Classification code (ADN)	:	Т5
Special provisions (ADN)	:	802
Limited quantities (ADN)	:	500 g
Excepted quantities (ADN)		E4
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	2
- Rail transport		
Classification code (RID)	:	Т5
Limited quantities (RID)	:	500g
Excepted quantities (RID)	:	E4
Packing instructions (RID)	:	P002, IBC08
Special packing provisions (RID)	:	B4
Mixed packing provisions (RID)	:	MP10
Portable tank and bulk container instructions (RID)	:	Т3
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAH
Special provisions for RID tanks (RID)	:	TU15
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W11
Special provisions for carriage – Loading and unloading (RID)	:	CW13, CW28, CW31
Colis express (express parcels) (RID)	:	CE9
Hazard identification number (RID)	:	60

### 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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions MERCURIC CHLORIDE Extra Pure is not on the REACH Candidate List MERCURIC CHLORIDE Extra Pure is not on the REACH Annex XIV List

#### 15.1.2. National regulations

### Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 180)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Safety Data Sheet

: Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

**SECTION 16: Other information** 

### Full text of R-, H- and EUH-phrases:

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H300	Fatal if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H341	Suspected of causing genetic defects
H361f	Suspected of damaging fertility
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
R28	Very toxic if swallowed
R34	Causes burns
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R68	Possible risk of irreversible effects
С	Corrosive
N	Dangerous for the environment
Т	Toxic
T+	Very toxic

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