

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 2/18/2019 Version: 1.0

SECTION 1: Identification of the substa	nce/mixture and of the company/undertaking		
1.1. Product identifier			
Product form	: Substance		
Substance name	: Iron (II) chloride anhydrous		
Chemical name	: Iron dichloride		
IUPAC name	: lambda2-iron(2+) dichloride		
EC-No.	: 231-843-4		
CAS-No.	: 7758-94-3		
Product code	: 40695860		
Formula	: Cl2Fe		
Synonyms	: FERROUS CHLORIDE		
1.2. Relevant identified uses of the substant	ce or mixture and uses advised against		
1.2.1. Relevant identified uses			
Industrial/Professional use spec	: For professional use only		
	Industrial		
	Laboratory chemicals		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety data	a sheet		
Scafell Organics Molekula Ltd			
Lingfield Way			
Darlington - England			
T +44 (0) 1949 823777 / +44 (0) 7590 545705			
info@molekula.com / kbowen@molekula.com - www	.molekula.com		
1.4. Emergency telephone number	44 (0) 7500 545705		
Emergency number : ·	+44 (0) 7590 545705		
SECTION 2: Hazards identification			
SECTION 2: Hazards identification 2.1. Classification of the substance or mixtu	ire		
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2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1	272/2008 [CLP]		
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 4	272/2008 [CLP] H302		
2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 1B Full text of H statements : see section 16	272/2008 [CLP] H302 H314		
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2.1. Classification of the substance or mixtu Classification according to Regulation (EC) No. 1 Acute toxicity (oral), Category 4 Skin corrosion/irritation, Category 1B Full text of H statements : see section 16 Adverse physicochemical, human health and env No additional information available 2.2. Label elements Labelling according to Regulation (EC) No. 1272/ Hazard pictograms (CLP) Signal word (CLP)	272/2008 [CLP] H302 H314 rironmental effects 2008 [CLP] i GHS05 $GHS07GHS05$ $GHS07i$ Danger		
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This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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SECTION 3: Composition/information on ingredients			
3.1. Substances			
Name	Product identifier	%	
Iron (II) chloride anhydrous	(CAS-No.) 7758-94-3 (EC-No.) 231-843-4	100	
Eull text of H-statements: see section 16			

Full text of H-statements: see section 16 3.2. Mixtures

Not applicable

SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Never give anything by mouth to an unconscious person. If possible show this sheet, if not available show packaging or label. Do not leave affected person unattended.		
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Get medical advice/attention.		
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Do not remove clothing if it sticks to the skin. If skin irritation occurs: Get medical advice/attention.		
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.		
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.		
4.2. Most important symptoms and effects, both acute and delayed			
Symptoms/effects	: Causes severe skin burns and eye damage.		
Symptoms/effects after inhalation	: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Cough. May cause drowsiness or dizziness.		
Symptoms/effects after skin contact	: irritation (itching, redness, blistering).		
Symptoms/effects after eye contact	: Causes serious eye damage. redness, itching, tears. More severe symptoms are also possible.		
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.		

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

Get immediate medical advice/attention.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the substa	ince or mixture
Hazardous decomposition products in case of fire	: hydrogen chloride. Iron oxide.
5.3. Advice for firefighters	
Precautionary measures fire	: Exposure to fire/heat: seal off low-lying areas. Keep container tightly closed and away from heat, sparks and flame.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. Use extinguishing agent suitable for surrounding fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Warn all persons of toxic hazard.

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Isolate from fire, if possible, without unnecessary risk. No flames, no sparks. Eliminate all sources of ignition. Avoid dust formation.		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear recommended personal protective equipment.		
Emergency procedures	: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent access to unauthorized personnel. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not touch or walk on the spilled product.		
Measures in case of dust release	: Keep upwind. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection. Use self-contained breathing apparatus and chemically protective clothing.		

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Emergency procedures	: Ventilate area. Stop leak if safe to do so.
6.2. Environmental precautions	
Prevent entry to sewers and public water	rs. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for con	tainment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials.
Other information	: Do not flush with water. Do not empty into drains.
6.4. Reference to other sections	

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Provide local exhaust or general room ventilation. Avoid creating or spreading dust. Handl under inert gas. Protect from moisture.		
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace. Always wash hands after handling the product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product.		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures	: Handle and store contents under inert gas. Protect from moisture.		
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources. Keep container closed when not in use.		
Incompatible products	: Potassium. Strong oxidisers. Sodium. Sodium Oxides.		
Incompatible materials	: Sources of ignition. Direct sunlight. Material is hygroscopic. Moisture. Water, humidity.		
Storage area	: Store in dry protected location to prevent any moisture contact. Store at ambient temperature.		
7.3. Specific end use(s)			

No additional information available

SECTION 8: Exposure controls/personal protection				
8.1. Control parameters				
Iron (II) chloride anhydrou	s (7758-94-3)			
United Kingdom	WEL TWA (mg/m ³) 1 mg/m ³			
United Kingdom	WEL STEL (mg/r	n³)	2 mg/m³	
Iron (II) chloride anhydrou	s (7758-94-3)			
DNEL/DMEL (Workers)				
Acute - systemic effects, derma	I	160 μg/kg bodyweight/day		
Acute - systemic effects, inhala	tion	200 μg/m³		
Long-term - systemic effects, de	ermal	160 μg/kg bodyweight/day		
Long-term - systemic effects, inhalation 200 µg/m ³				
DNEL/DMEL (General popula	tion)			
Acute - systemic effects, oral 20 mg/kg bodyweight		20 mg/kg bodyweight		
Long-term - systemic effects,oral 280 µg/kg bodyweight/day		280 μg/kg bodyweight/day		
Long-term - systemic effects, dermal 1.4 mg/kg bodyweight/day		1.4 mg/kg bodyweight/day		
PNEC (Water)				
PNEC aqua (freshwater) 114 µg/L				
PNEC aqua (marine water)	PNEC aqua (marine water) 57 µg/L			
PNEC aqua (intermittent, fresh	PNEC aqua (intermittent, freshwater) 400 µg/L			
PNEC (Sediment)				
PNEC sediment (freshwater)		18.07 mg/kg dwt		
PNEC sediment (marine water)	PNEC sediment (marine water) 9.03 mg/kg dwt			
PNEC (STP)				
PNEC sewage treatment plant 737 mg/l				

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8.2. Exposure controls

Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures. Provide local exhaust or general room ventilation.

6 (> 480 minutes)

Personal protective equipment:

Wear recommended personal protective equipment. Avoid all unnecessary exposure.

Nitrile rubber (NBR)

Materials for protective:Use chemically protective:Use chemically protection:Hand protection:The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standardTypeMaterialPermeationThickness (mm)Penetration

0.11mm

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against powders and dusts. Chemical goggles or safety glasses

Туре	Use	Characteristics	Standard
Safety glasses, Face shield	Dust	With side shields	EN 166

Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product	EN ISO 13982

Respiratory protection:

Self contained breathing apparatus, in case of emergency. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	Туре РЗ	Dust protection	EN 143

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical pro	SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Molecular mass	: 126.75 g/mol		
Colour	: Colourless.		
Odour	: No data available		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: 677 °C lit		
Freezing point	: No data available		
Boiling point	: 1023 °C		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Non flammable.		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: 3.16 g/cm3 at 25 °C		
Solubility	: soluble in water. Alcohols. Acetone. Slightly soluble in: Benzene. Insoluble in: Ether.		
	Water: 664 g/l		

EN 374

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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

SECTION 10: Stability	and reactivity
10.1. Reactivity	

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight.

10.5. Incompatible materials

Strong oxidizers.

STOT-repeated exposure

Additional information

Additional information

Aspiration hazard

symptoms

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : hydrogen chloride.

SECTION 11: Toxicological information 11.1. Information on toxicological effects	
Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Iron (II) chloride anhydrous (7758-94-3)	
LD50 oral rat	> 500 mg/kg
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

Based on available data, the classification criteria are not met
Not classified
Based on available data, the classification criteria are not met

Potential adverse human health effects and : Harmful if swallowed.

: Not classified

SECTION 12: Ecological informati	on	
12.1. Toxicity Acute aquatic toxicity	: Not classified	
	: Not classified	
Chronic aquatic toxicity		
Iron (II) chloride anhydrous (7758-94-	-3)	
LC50 fish 1	46.6 mg/l 96h - Oryzias latipes	
EC50 Daphnia 1	19 mg/l 48h - Daphnia magna (Water flea)	
EC50 72h algae (1)	17.7 mg/l 72h - Selenastrum capricornutum (green algae)	
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12.2. Persistence and degradability		
Iron (II) chloride anhydrous (7758-94-3)		
Persistence and degradability	Potentially biodegradable. soluble in water.	
12.3. Bioaccumulative potential		
Iron (II) chloride anhydrous (7758-94-3)		
Bioaccumulative potential	Not potentially bioaccumulable.	
12.4. Mobility in soil		
Iron (II) chloride anhydrous (7758-94-3)		
Ecology - soil	Expected to be highly mobile in soil.	
12.5. Results of PBT and vPvB assessment		
Iron (II) chloride anhydrous (7758-94-3)		
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII		
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII		
12.6. Other adverse effects		
Additional information :	Avoid release to the environment.	

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.

ADR	IMDG	ΙΑΤΑ	ADN	RID
4.1. UN number				
3260	3260	3260	3260	3260
4.2. UN proper shipping	g name			
CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	Corrosive solid, acidic, inorganic, n.o.s.	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
ransport document descr	iption			
UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iron (II) chloride anhydrous), 8, III, (E)	UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iron (II) chloride anhydrous), 8, III	UN 3260 Corrosive solid, acidic, inorganic, n.o.s. (Iron (II) chloride anhydrous), 8, III	UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iron (II) chloride anhydrous), 8, III	UN 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Iro (II) chloride anhydrous), 8 III
4.3. Transport hazard o	lass(es)			
8	8	8	8	8
*	8	8	8	8
4.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
lo supplementary informatio	n available			
4.6. Special precautions	s for user			
verland transport				
lassification code (ADR) pecial provisions (ADR)	: C2 : 274			

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	its amendment Regulation (EU) 2015/830
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Hazard identification number (Kemler No.)	: 80
Orange plates	80 3260
Tunnel restriction code (ADR)	: E
EAC code	: 2X
Transport by sea	
Special provisions (IMDG)	: 223, 274
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.
Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y845
	: 5kg
PCA limited quantity max net quantity (IATA)	
PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)	: 860
PCA packing instructions (IATA) PCA max net quantity (IATA)	: 25kg
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA)	: 25kg : 864
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA)	: 25kg : 864 : 100kg
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA)	: 25kg : 864 : 100kg : A3, A803
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA)	: 25kg : 864 : 100kg
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport	: 25kg : 864 : 100kg : A3, A803 : 8L
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN)	: 25kg : 864 : 100kg : A3, A803 : 8L : C2
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Special provisions (ADN)	: 25kg : 864 : 100kg : A3, A803 : 8L : C2 : 274
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN)	: 25kg : 864 : 100kg : A3, A803 : 8L : C2 : 274 : 5 kg
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN)	: 25kg : 864 : 100kg : A3, A803 : 8L : C2 : 274 : 5 kg : E1
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PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Equipment required (ADN) Number of blue cones/lights (ADN) Rail transport Classification code (RID) Special provisions (RID) Excepted quantities (RID) Packing instructions (RID) Special packing provisions (RID) Mixed packing provisions (RID) Portable tank and bulk container instructions (RID)	: 25kg : 864 : 100kg : A3, A803 : 8L : C2 : 274 : 5 kg : E1 : PP, EP : 0 : C2 : 274 : 5 la : PP, EP : 0 : C2 : 274 : 5 la : PP, EP : 0 : C2 : 274 : 5 la : PP, EP : 0 : C2 : 274 : 1 : PD02, IBC08, LP02, R001 : B3 : MP10 : T1
PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Equipment required (ADN) Number of blue cones/lights (ADN) Rail transport Classification code (RID) Special provisions (RID) Excepted quantities (RID) Packing instructions (RID) Mixed packing provisions (RID)	: 25kg : 864 : 100kg : A3, A803 : 8L : C2 : 274 : 5 kg : E1 : PP, EP : 0 : C2 : 274 : E1 : PP, EP : 0 : C2 : 274 : B3 : MP10

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

	00A)/
Tank codes for RID tanks (RID)	: SGAV
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 80
14.7. Transport in bulk according to Anne	ex II of Marpol and the IBC Code
Not applicable	
SECTION 15: Regulatory information	

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Iron (II) chloride anhydrous is not on the REACH Candidate List Iron (II) chloride anhydrous is not on the REACH Annex XIV List Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information		
Data sources	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.	
Other information	: None.	
Full text of H- and EUH-statements:		
Aguta Tax, 4 (Oral)	Agute taxinity (aral) Catagony 4	

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

SDS EU (REACH Annex II)

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