

Safety Data Sheet

according to Regulation (EC) No. 453/2010 Date of issue: 05/03/2015 Revision date: 05/03/2015

Supersedes: 12/12/2012

Version: 8.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Product form	Substance		
Substance name	Cadmium Oxide		
IUPAC name	:		
EC index no	: 048-002-00-0		
EC no	: 215-146-2		
CAS No	: 1306-19-0		
REACH registration No	: 01-2119486766-19		
Formula	: CdO		
Product group	: Trade product		
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Main use category	: Reserved for industrial and professional use.		
Industrial/Professional use spec	: Intermediate Non-dispersive use		
Use of the substance/mixture	: See attachted safety data sheets and/or usage instructions.		
Function or use category	: Electrical batteries and accumulators., Laboratory chemicals, Intermediates, Electroplating agents		

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Flaurea Chemicals 12 Quai des Usines

7800 Ath - Belgique

T +32(0)68281912; 8h30 - 16h45 - F +32(0)68286811 reception@flaureachemicals.com - http://www.flaureachemicals.com

1.4. Emergency telephone number

Emergency number

: +32(0)68281912 ou http://www.who.int/countries/en/ Immediately call a POISON CENTER or doctor/ physician.

Country	Official advisory body	Address	Emergency number
CANADA EN	Ontario Poison Centre (OPC) / Centre anti- poison de l'Ontario	The Hospital for Sick Children, 555 University Avenue, Toronto, ON M5G 1X8 ON M5G 1X8 Toronto	1-800-268-9017
GREECE	Poisons Information Centre Children's Hospital "Aglaia. Kyriakou"	11527 Athens	+30 10 779 3777
ICELAND	Iceland Poisons Information Centre Landspitali University Hospital	Fossvogi 108 Reykjavik	+354 525 111 +354 543 2222
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241
USA	USA - Poison control center - emergency number	general call center	1-800-222-1222
USA	USA poison center	3201 New Mexico Ave, Suite 310 DC 20016 Washington	1-800-222-1222
إسر ائيل	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096 Haifa	+972 4 854 1900

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according t	o Regulation (EC) No. 1272/2008 [CLP]
	11004

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Repr. 2	H361f	
STOT RE 1	H372	
Aquatic Acute 1		(M=10)
Aquatic Chronic 1	H410	(M=10)
Full text of H-phrases: see section 16		

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.2; R45 Muta.Cat.3; R68 Repr.Cat.3; R62 Repr.Cat.3; R63 T+; R26 T; R48/23/25 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 (EC) No. 1272/2008 [CLP]				
Hazard pictograms (CLP)	GHS06 GHS08 GHS09			
CLP Signal word	: Danger			
Hazard statements (CLP)	 H301 - Toxic if swallowed H301 - Fatal if inhaled H341 - Suspected of causing genetic defects H350 - May cause cancer 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 			
Precautionary statements (CLP)	 P270 - Do not eat, drink or smoke when using this product P273 - Avoid release to the environment P281 - Use personal protective equipment as required P308+P313 - IF exposed or concerned: Get medical advice/attention P501 - Dispose of contents/container to This material and its container must be disposed of in a safe way, and as per local legislation P391 - Collect spillage P405 - Store locked up 			

2.3. Other hazards

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

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Other hazards not contributing to the	: Product is inorganic. (CSR 2010).
classification	

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Substa	nce type	: Mono-constituent
Name		: Cadmium Oxide
CAS No		: 1306-19-0
EC no		: 215-146-2

: 048-002-00-0

EC index no

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Cadmium Oxide substance listed as REACH Candidate	(CAS No) 1306-19-0 (EC no) 215-146-2 (EC index no) 048-002-00-0 (REACH-no) 01-2119486766-19	99,45 - 100	Carc.Cat.2; R45 Muta.Cat.3; R68 Repr.Cat.3; R62 Repr.Cat.3; R63 T+; R26 T; R48/23/25 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cadmium Oxide substance listed as REACH Candidate	(CAS No) 1306-19-0 (EC no) 215-146-2 (EC index no) 048-002-00-0 (REACH-no) 01-2119486766-19	99,45 - 100	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Inhalation:dust,mist), H330 Muta. 2, H341 Carc. 1B, H350 Repr. 2, H361f STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

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 measures First-aid measures general	: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.	
First-aid measures general	: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for	
	breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.	
First-aid measures after skin contact	: For even minor contact, immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Give water to drink if victim completely conscious/alert. Do not induce vomiting.	
4.2. Most important symptoms and eff	ects, both acute and delayed	
Symptoms/injuries	: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).	
Symptoms/injuries after inhalation	: Dust from this product may cause irritation to the respiratory tract. Cough. Abdominal pain. respiratory complaints.	
Symptoms/injuries after eye contact	: Dust from this product may cause eyes irritation. Conjunctival redness.	
Symptoms/injuries after ingestion	: gastrointestinal complaints. Nausea. Vomiting. Abdominal pain. Burning sensation. The product causes cramps.	
4.3. Indication of any immediate media	cal attention and special treatment needed	
No additional information available		
SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Carbon dioxide (CO2). Foam. In a remote area, use water fog. Powder.	
5.2. Special hazards arising from the s	substance or mixture	
Explosion hazard	: not explosive.	
5.3. Advice for firefighters		
Protection during firefighting	: Self contained breathing apparatus.	
	- · · ·	
SECTION 6: Accidental release measures		
	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Protective equipment	: Do not breathe dust. Self contained breathing apparatus.	
Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Self contained breathing apparatus.	
05/03/2015	EN (English) 3/10	

Safety Data Sheet

according to Regulation (EC) No. 453/2010

6.2.	Environmental precautions			
Do not	allow to enter drains or water cours	ses.		
6.3.	.3. Methods and material for containment and cleaning up			
Metho	ds for cleaning up	: Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Avoid raising powdered materials into airborne dust.		
6.4.	Reference to other sections			
See protective measures under point 7 and 8.				
000 pi	olective measures under point r an	u 8.		
	·			
	FION 7: Handling and stora Precautions for safe handling	ge		
SEC 7.1.	FION 7: Handling and stora	ge		
SEC 7.1.	FION 7: Handling and stora Precautions for safe handling	ge : Wear suitable protective clothing, gloves and eye or face protection.		
SEC 7.1. Precau 7.2.	FION 7: Handling and stora Precautions for safe handling utions for safe handling	ge : Wear suitable protective clothing, gloves and eye or face protection.		
SEC 7.1. Precau 7.2. Techn	FION 7: Handling and stora Precautions for safe handling utions for safe handling Conditions for safe storage, in	ge : Wear suitable protective clothing, gloves and eye or face protection. cluding any incompatibilities		

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

3.1. Control parameters				
Cadmium Oxide (1306-19-0)				
EU	IOELV TWA (mg/m ³)	0,004 mg/m ³ Inhalation of dust/particles		
EU	Notes	The protection of workers in the Cd-related industry is achieved by the systematic implementation of a carefully designed stepwise risk management system, outlining measures to control worker exposure and combining measurements of both exposure and effect. The system is aimed at prevention of exposure and protection against early manifestation of (subclinical) effect at the level of the critical organ, the kidney. The system is described in detail in annex of section 8, see appended.		
Austria	MAK (mg/m³)	0,15 mg/m ³ E: respirable fraction		
Austria	MAK Short time value (mg/m3)	0,03 mg/m ³ E: respirable fraction		
Belgium	Limit value (mg/m ³)	0,002 mg/m ³ respirable dust		
Denmark	Grænseværdie (langvarig) (mg/m³)	0,005 mg/m³		
Finland	HTP-arvo (8h) (mg/m ³)	0,01 mg/m ³		
France	VME (mg/m ³)	0,05 mg/m³		
France	VLE (mg/m ³)	0,05 mg/m³		
Hungary	AK-érték	0,05 mg/m³		
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,005 mg/m ³		
Spain	VLA-ED (mg/m ³)	0,002 mg/m ³ respirable dust		
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,005 mg/m ³ respirable dust		
United Kingdom	WEL TWA (mg/m³)	0,025 mg/m³		
Norway	Gjennomsnittsverdier (AN) (mg/m ³)	0,02 mg/m³		
Switzerland	VLE (mg/m ³)	0,002 mg/m ³ respirable dust		
USA - ACGIH	ACGIH TWA (mg/m³)	0,005 mg/m³		

Cadmium Oxide (1306-19-0)		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	0,05 mg/kg bodyweight/day (Cd)	
Acute - systemic effects, inhalation	0,004 mg/m³ (Cd)	
Acute - local effects, inhalation	0,004 mg/m³ (Cd)	
Long-term - systemic effects, inhalation	0,004 mg/m³ (Cd)	
Long-term - local effects, inhalation	0,004 mg/m³ (Cd)	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0,001 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0,00019 mg/l (Cd)	

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Cadmium Oxide (1306-19-0)	
PNEC aqua (marine water)	0,00114 mg/l (Cd)
PNEC (Sediment)	
PNEC sediment (freshwater)	1,8 mg/kg dwt
PNEC sediment (marine water)	0,64 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,0009 mg/kg dwt (Cd)
PNEC (Oral)	
PNEC oral (secondary poisoning)	0,00016 kg/kg food (mg Cd/Kg food)
PNEC (STP)	
PNEC sewage treatment plant	0,02 mg/l
DNEL	: 0,004 mg/m³ Cd
PNEC	: 0,00019 mg/l Drinking water.
8.2. Exposure controls	
Appropriate engineering controls	: Provide local exhaust or general room ventilation. (High efficiency 90-95%).
Personal protective equipment	 Protective clothing. Dust/aerosol mask with filter type P3. Protective goggles. Gloves. rubber gloves. NBR (Nitrile rubber). Neoprene. Butyl caoutchouc (butyl rubber). PolyEthylene. EN 374 3 : 2003.
Materials for protective clothing	: Wear protective gloves/protective clothing/eye protection/face protection.
Hand protection	: Wear gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear protective gloves/protective clothing.



SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 128,4104
Colour	: red brown.
Odour	: odourless.
Odour threshold	: Not applicable
рН	: Not applicable
pH solution	: Not applicable
Relative evaporation rate (butylacetate=1)	: Not applicable
Relative evaporation rate (ether=1)	: Not applicable
Melting point	: No data available
Freezing point	: 950 °C
Boiling point	: Not applicable
Flash point	: Not applicable
Critical temperature	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not applicable
Vapour pressure at 50 °C	: Not applicable
Critical pressure	: Not applicable
Relative vapour density at 20 °C	: Not applicable
Relative density	: Not applicable
Relative density of saturated gas/air mixture	: Not applicable
Density	: 8,26 g/cm ³ (20°C)

Relative gas density

: Not applicable

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Solubility	: slightly soluble. Water: 2,1 mg/l (20°C)
Log Pow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: not explosive.
Oxidising properties	: not applicable.
Explosive limits	: Not applicable Not applicable
9.2. Other information	
Sublimation point	: 950 °C
Miscibility	: eau 0,021 g/100ml
VOC content	: Not applicable
Particle size in µm	: D50:129 μm; D80:>215μm
SECTION 10: Stability and reactivit	iy
10.1. Reactivity	
Stable at room temperature.	
10.2. Chemical stability	
Stable.	

Possibility of hazardous reactions 10.3.

No additional information available 10.4. **Conditions to avoid** alkaline. Do not mix with acids. 10.5. Incompatible materials Magnesium.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Toxic if swallowed. Inhalation:dust,mist: Fatal if inhaled.
Cadmium Oxide (1306-19-0)	
LD50 oral rat	63 - 259 mg/kg
LD50 oral	63 mg/kg Mouse
LC50 inhalation rat (mg/l)	0,0008 - 0,066 mg/l/4h
Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification)
	pH: Not applicable
Serious eye damage/irritation	: Not classified (Conclusive but not sufficient for classification)
	pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Conclusive but not sufficient for classification)
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Suspected of damaging fertility.
Specific target organ toxicity (single exposure)	: Not classified (Conclusive but not sufficient for classification)
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified (Lack of data)

SECTION 12: Ecological in	formation
12.1. Toxicity	
Ecology - general	: N : Dangerous for the environment.
Ecology - water	: Avoid release to the environment. Refer to special instructions/Safety data sheets.
Cadmium Oxide (1306-19-0)	
LC50 fish 1	0,034 - 6,47 mg/l Salmo salar
EC50 Daphnia 1	0,036 mg/l Daphnia magna (Big water flea).
05/03/2015	EN (English) 8/11

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Cadmium Oxide (1306-19-0)	
EC50 other aquatic organisms 1	0,021 mg/l Selenastrum capricornutum
EC50 Daphnia 2	0,038 - 1,9 mg/l
ErC50 (algae)	0,018 mg/l Selenastrum capricornutum
NOEC (chronic)	0,00021 mg/l Daphnia magna (Big water flea).
NOEC chronic fish	0,00047 mg/l Salmo salar
NOEC chronic algae	0,00085 mg/l Asterionella formosa
unit/Content	Cadmium, mg/l

12.2. Persistence and degradability		
Cadmium Oxide (1306-19-0)		
Persistence and degradability	Not applicable. Mineral.	
12.3. Bioaccumulative potential		
Cadmium Oxide (1306-19-0)		
Bioconcentration factor (BCF REACH)	Inconclusive data	
Log Pow	Not applicable	
Bioaccumulative potential	According to literature, not bioaccumulative. BCF Fish. Low. Inconclusive data.	
12.4. Mobility in soil		
Cadmium Oxide (1306-19-0)		
Log Koc	2,45 (pH 6.5)	
12.5. Results of PBT and vPvB assessment		
Cadmium Oxide (1306-19-0)		
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

No additional information available

No additional information available	
SECTION 13: Disposal consideration	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Recycling.
Waste treatment methods	: Consult the appropriate local waste disposal expert about waste disposal. Recycling.
Waste disposal recommendations	: Recycling.
Ecology - waste materials	: Recycling. S.N.A.M. Avenue Jean Jaurès 12110 Viviez, France T: +33 565437730.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No.	: 2570
UN-No. (IMDG)	: 2570
UN-No.(IATA)	: 2570
UN-No.(ADN)	: Not applicable
UN-No. (RID)	: 2570
14.2. UN proper shipping name	
Proper Shipping Name	: Cadmium compound (Cadmium Oxide)
Proper Shipping Name (IMDG)	: Cadmium compound (Cadmium Oxide)
Proper Shipping Name (IATA)	: Cadmium compound (Cadmium Oxide)
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
Transport document description	: UN 2570 Cadmium compound (Cadmium Oxide), 6.1, I, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2570 Cadmium compound (Cadmium Oxide), 6.1, I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (UN)	: 6.1

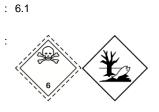
Safety Data Sheet

according to Regulation (EC) No. 453/2010



IMDG

Transport hazard class(es) (IMDG) Danger labels (IMDG)



: 6.1

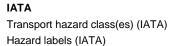
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Transport hazard class(es) (ADN) Danger labels (ADN)



RID

Transport hazard class(es) (RID)	
Danger labels (RID)	



14.4. Packing group		
Packing group (UN)	: 1	
Packing group (IMDG)	: 1	
Packing group (IATA)	: 1	
Packing group (ADN)	: Not applicable	
Packing group (RID)	: Not applicable	
14.5. Environmental hazards		
Dangerous for the environment	: Yes	
Marine pollutant	: Yes	
Other information	: Marine pollutant:	
14.6. Special precautions for user		
Special transport precautions	: Must not come into contact with food or be consumed.	
14.6.1. Overland transport		
Classification code (UN)	: T5	
05/03/2015	EN (English)	8/10

Safety Data Sheet

according to Regulation (EC) No. 453/2010	
Special provisions (ADR)	: 274, 596
Vehicle for tank carriage	: AT
Transport category (ADR)	: 1
Tunnel restriction code (ADR)	: E
14.6.2. Transport by sea	
14.6.3. Air transport	
14.6.4. Inland waterway transport	
Not subject to ADN	: No
14.6.5. Rail transport	
Carriage prohibited (RID)	: No
14.7. Transport in bulk according to Ann Not applicable Image: Contract of the second secon	ex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory informatio	n
	egulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
No REACH Annex XVII restrictions is on the REACH Candidate List Cadmium Oxide is not on the REACH Annex XI	V List
VOC content	: Not applicable
15.1.2. National regulations	
France	
Occupational diseases	 RG 61 BIS - Cancer broncho-pulmonaire provoqué par l'inhalation de poussières ou fumées renfermant du cadmium RG 61 - Maladies professionnelles provoquées par le cadmium et ses composés
Germany	
Water hazard class (WGK)	: 3 - severe hazard to waters
Netherlands	
Waterbezwaarlijkheid	: 4 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
15.2. Chemical safety assessment	
A chemical safety assessment has been carried GES are available in English (see appendix).	d out

SECTION 16: Other information

Indication of changes: Major. according to Regulation (EC) No. 453/2010. according to Regulation (EC) No. 1907/2006 (REACH) Labelling according to Regulation (EC) No. 1272/2008 [CLP]

(REACH). Labelling according to Regulation (EC) No. 1272/2008 [CLP].				
15.1	substance listed as	Added		
	REACH Candidate			
Data sources	: Chemical Safety Report from REACH Registration file.			
Other information	: Read label before use. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.			

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

Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Carc. 1B	Carcinogenicity, Category 1B	
Muta. 2	Germ cell mutagenicity, Category 2	

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Repr. 2	Reproductive toxicity, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H301	Toxic if swallowed
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H350	May cause cancer
H361f	Suspected of damaging fertility
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R26	Very toxic by inhalation
R45	May cause cancer
R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation 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
R63	Possible risk of harm to the unborn child
R68	Possible risk of irreversible effects
N	Dangerous for the environment
Т	Toxic
T+	Very toxic

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