

# EOS NickelAlloy HX Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Date of issue: 29/12/2022 Version: 5.4

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Name	: EOS NickelAlloy HX
Product code	: 9011-0023, 9011-0034
Type of product	: Alloy, Powder
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Industrial use
Industrial/Professional use spec	: Heat resistant Nickel alloy for DMLS processes in EOS M systems
	Industrial
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the sa	fety data sheet
Supplier	
Electro Optical Systems Finland Oy	
Lemminkäisenkatu 36	
20520 Turku - FINLAND T +358 (0) 20 765 9144/9147 - F +358 (0) 2	0 765 9141
<u>MSDSInfo@eos.info</u> - <u>https://www.eos.info/</u>	
1.4. Emergency telephone number	
Emergency number	: +49 (0) 89 / 893 36 - 0 (8 am - 5 pm);
Emergency number	
	+49 (0) 89 / 893 36 - 151 (Mon-Thurs 9 am - 12 pm & 1 pm - 6 pm; Fri 1 pm - 4 pm (CET))
SECTION 2: Hazards identification	n
2.1. Classification of the substance	
Classification according to Regulation (E	C) NO. 1272/2008 [CLP]
Respiratory sensitisation, Category 1	H334
Skin sensitisation, Category 1	H317
Germ cell mutagenicity, Category 2	H341
Carcinogenicity, Category 1B	H350
Reproductive toxicity, Category 1B	H360F
Specific target organ toxicity — Repeated	H372
exposure, Category 1	
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment —	H410
Chronic Hazard, Category 1	
Full text of H statements : see section 16	
Adverse physicochemical, human health	and environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC) N	IO. 12/2/2008 [CLP]
Hazard pictograms (CLP)	
	GHS08 GHS09
Signal word (CLP)	: Danger
Hazardous ingredients	: Cobalt; Nickel
Hazard statements (CLP)	: H317 - May cause an allergic skin reaction.
	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

	H341 - Suspected of causing genetic defects.
	H350 - May cause cancer. H360F - May damage fertility. H372 - Causes damage to organs through prolonged or repeated exposure. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves.</li> <li>P284 - [In case of inadequate ventilation] wear respiratory protection.</li> <li>P308+P313 - IF exposed or concerned: Get medical advice/attention.</li> <li>P405 - Store locked up.</li> </ul>
2.3. Other hazards not contribu	ting to the classification

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTIO	SECTION 3: Composition/information on ingredients		
3.1.	Substances		
Not appli	cable		

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nickel	(CAS-No.) 7440-02-0 (EC-No.) 231-111-4 (EC Index-No.) 028-002-00-7 (REACH-no) 01-2119438727-29	30 - 54	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 3, H412
Chromium substance with a Community workplace exposure limit	(CAS-No.) 7440-47-3 (EC-No.) 231-157-5 (REACH-no) 01-2119485652-31	20.5 - 23	Not classified
Cobalt	(CAS-No.) 7440-48-4 (EC-No.) 231-158-0 (EC Index-No.) 027-001-00-9 (REACH-no) 01-2119517392-44	0,5 - 2,5	Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Repr. 1B, H360F Aquatic Acute 1, H400 <i>M-factor: 10</i> Aquatic Chronic 1, H410 <i>M-factor: 10</i>
Copper	(CAS-No.) 7440-50-8 (EC-No.) 231-159-6 (REACH-no) 01-2119480154-42	0 - 0,1	Aquatic Acute 1, H400 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

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 you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects	: May damage fertility or the unborn child. May cause cancer. Suspected of causing genetic defects. Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

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

No additional information available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

SECTION 5: Firefightin	. ,		
5.1. Extinguishing medi			
Suitable extinguishing media		Dry extinguishing powder. Dry sand	4
Unsuitable extinguishing media		Carbon dioxide. Water.	<b>.</b>
5.2. Special hazards ari Hazardous decomposition proc			lybdenum trioxide. Carbon monoxide. Carbon dioxide.
fire		Nickel Monoxide. Cobait oxide. Mon	ybdenum moxide. Carbon monoxide. Carbon dioxide.
5.3. Advice for firefighte	ers		
Firefighting instructions		Exercise caution when fighting any	chemical fire. Prevent fire fighting water from entering the
		environment.	
Protective equipment for firefig	hters :	Do not enter fire area without prope	er protective equipment, including respiratory protection.
<b>SECTION 6: Accidental</b>	release measu	res	
		ment and emergency procedures	
6.1.1. For non-emergency			
Emergency procedures	-	Evacuate unnecessary personnel.	
2 7 .			
6.1.2. For emergency resp		<b>.</b>	
Protective equipment		Equip cleanup crew with proper pro	otection.
Emergency procedures		Ventilate area.	
6.2. Environmental prec			
	-	uthorities if liquid enters sewers or pu	ublic waters.
6.3. Methods and mater			
Methods for cleaning up	:	Collect spill using a vacuum cleane generation of dust. Store away from	r with a HEPA filter or wet and scoop up dry spills. Minimize
		generation of dust. Store away non	
6.4. Reference to other			
For further information refer to	-	controis/personal protection".	
SECTION 7: Handling a	ind storage		
7.1. Precautions for saf	e handling		
exhaust or general room ventilation to minimize exp precautionary measures against static discharge. Ke and sources of ignition. Hygiene measures : Contaminated work clothing should not be allowed of		powdered materials into airborne dust. Provide local to minimize exposure to dust. Do not breathe dust. Take atic discharge. Keep away from open flames, hot surfaces not be allowed out of the workplace. Wash contaminated lrink or smoke when using this product. Wash both hands	
7.2. Conditions for safe	storage including	any incompatibilities	,
Storage conditions			n a cool well ventilated place. Keep container closed when
0		not in use.	
Incompatible products	:	Strong bases. Strong acids.	
Incompatible materials	:	Sources of ignition. Direct sunlight.	
7.3. Specific end use(s)			
No additional information availa	able		
SECTION 8: Exposure	controls/pers <u>on</u>	al protection	
8.1. Control parameters	;		
Chromium (7440-47-3)			
EU	IOELV TWA (mg/r	m <sup>3</sup> )	2 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup>		0,5 mg/m <sup>3</sup>
United Kingdom			1,5 mg/m <sup>3</sup> (calculated)
Copper (7440-50-8)			
United Kingdom	WEL TWA (mg/m <sup>3</sup>	3)	1 mg/m <sup>3</sup> (dust and mists)
United Kingdom	WEL STEL (mg/m	53)	0,2 mg/m³ (fume) 0,6 mg/m³ (calculated-fume)
		· )	2 mg/m <sup>3</sup> (dust and mist)
Cobalt (7440-48-4)	Cobalt (7440-48-4)		
United Kingdom	WEL TWA (mg/m <sup>2</sup>	3)	0,1 mg/m <sup>3</sup>

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Cobalt (7440-48-4)		
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	0,3 mg/m <sup>3</sup> (calculated)
Nickel (7440-02-0)		
EU	IOELV TWA (mg/m <sup>3</sup> )	0,005 mg/m <sup>3</sup> (respirable fraction) 0,01 mg/m <sup>3</sup> (inhalable fraction)
EU	Notes	SCOEL Recommendations (2011)
EU	Regulatory reference	SCOEL Recommendations
United Kingdom	Local name	Nickel
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m <sup>3</sup> and its inorganic compounds (except nickel tetracarbonyl), water-soluble nickel compounds (as Ni) 0,5 mg/m <sup>3</sup> and its inorganic compounds (except nickel tetracarbonyl), nickel and water insoluble nickel compounds (as Ni)
United Kingdom	Remark (WEL)	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), Carc (nickel oxides and sulphides)(Capable of causing cancer and/or heritable genetic damage. See paragraphs 49–51), Sen (nickel sulphate)(Capable of causing occupational asthma. See paragraphs 53–56)
United Kingdom	Regulatory reference	EH40. HSE

DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	680 mg/m³ Nickel	
Acute - local effects, inhalation	4 mg/m³ Nickel	
Long-term - local effects, dermal	0,035 mg/cm <sup>2</sup> Nickel	
Long-term - systemic effects, inhalation	0,05 mg/m³ Nickel	
Long-term - local effects, inhalation	0,05 mg/m³ Nickel	
PNEC (Water)		
PNEC aqua (freshwater)	0,00051 mg/l Cobalt	
PNEC aqua (marine water)	0,00236 mg/l Cobalt	
PNEC (Sediment)		
PNEC sediment (freshwater)	9,5 mg/kg dwt Cobalt	
PNEC sediment (marine water)	9,5 mg/kg dwt Cobalt	

### 8.2. Exposure controls

### Appropriate engineering controls:

Dust must be extracted directly at the point of origin. During standard processing, release of components above the exposure limit concentrations is not anticipated. However, with excessive heating creating the potential for decomposition, there is the potential for release of components at or above the exposure limit concentrations. Use appropriate engineering controls to ensure airborne concentrations are maintained below exposure limit concentrations.

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

In case of repeated or prolonged contact (industrial environment), wear gloves; Chemical resistant gloves (according to European standard EN 374 or equivalent). Appropriate material: butyl rubber; nitrile rubber.

#### Eye protection:

Chemical goggles or safety glasses

### Skin and body protection:

Wear suitable protective clothing. Wear protective shoes. ESD according to EN 61340-4-3 or equivalent.

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable particle mask (P3).



### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Environmental exposure controls:

Prevent entry to sewers and public waters.

### Other information:

Do not eat, drink or smoke during use.

Solid         Powder.         Grey.         None.         Not applicable         Not determined         1200 - 1500 °C         Not determined         Not determined
Powder. Grey. None. Not applicable Not applicable Not determined 1200 - 1500 °C Not determined Not determined
Grey. None. Not applicable Not applicable Not determined 1200 - 1500 °C Not determined Not determined
None. Not applicable Not applicable Not determined 1200 - 1500 °C Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Not applicable Not applicable Not determined 1200 - 1500 °C Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Not applicable Not determined 1200 - 1500 °C Not determined Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Not determined 1200 - 1500 °C Not determined Not determined Not determined Not determined Not applicable Not determined Not determined Not determined
1200 - 1500 °C Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Not determined Not determined Not determined Not determined Not determined Not determined Not determined
Not determined Not determined Not determined Not determined Not determined Not determined
Not determined Not determined Not applicable Not determined Not determined
Not determined Not applicable Not determined Not determined Not determined
Not applicable Not determined Not determined Not determined
Not determined Not determined Not determined
Not determined Not determined
Not determined
Not determined
3500 - 5000 kg/m³
Not determined.
Not applicable
Not applicable
Not applicable
Not explosive.
Not determined.
Not applicable

May form toxic gaseous nickel carbonyle under: high pressure; high carbon monoxide concentration. Hydrogen gas may be released in contact with mineral acids. Spontaneously flammable when finely dispersed.

10.4. Conditions to avoid

Direct sunlight. Extremely high temperatures. Remove all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Refer to section 5.

SECTION 11: Toxicological information		
11.1.	.1. Information on toxicological effects	
Acute tox	icity (oral)	: Not classified
Acute tox	icity (dermal)	: Not classified
Acute tox	icity (inhalation)	: Not classified

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Chromium (7440-47-3)		
LD50 oral rat	> 5000 mg/kg (OECD TG 420)	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5,41 mg/l/4h (OECD TG 403)	
Cobalt (7440-48-4)	1	
LD50 oral rat	6171 mg/kg	
LC50 inhalation rat (mg/l)	> 10 mg/l (Exposure time: 1 h)	
Skin corrosion/irritation	: Not classified	
	pH: Not applicable	
Additional information	: Based on available data, the classification criteria are not met	
Serious eye damage/irritation	: Not classified	
	pH: Not applicable	
Additional information	Based on available data, the classification criteria are not met	
Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.	
Germ cell mutagenicity	: Suspected of causing genetic defects.	
Carcinogenicity	: May cause cancer.	
Nickel (7440-02-0)		
Carcinogenicity (inhalation, rat, 12-30 months)	0.4 mg/m <sup>3</sup> /6h/d, 5d/wk (Oller et al. 2008, Toxicol Appl Pharmacol. 233: 262-275)	
Reproductive toxicity	: May damage fertility or the unborn child.	
Cobalt (7440-48-4)		
NOAEL (animal/female, F0/P)	100 mg/kg bodyweight	
STOT-single exposure	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.	
Chromium (7440-47-3)		
LOAEC (inhalation, rat,dust/mist/fume, 90	>= 4,4 mg/l/6h/day (Derelanko, M. J., W. E. Rinehart, et al., 1999, Toxicol Sci.52: 278-288)	
days)		
NOAEL (oral, rat, 90 days)	1216 mg/kg bodyweight/day (Ivankovic, S. and R. Preussman, 1975, Food Cosmet Toxicol.13(3): 347-51)	
Aspiration hazard	: Not classified	
Additional information	: Based on available data, the classification criteria are not met	
Potential Adverse human health effects and symptom	oms Based on available data, the classification criteria are not met.	
IARC group	: 2B	
11.2. Information on other hazards		
11.2.1. Endocrine disrupting properties		
No additional information available		
11.2.2. Other information		
Potential Adverse human health effects and symp	toms : Harmful in contact with skin, Harmful if swallowed.	
SECTION 12: Ecological information		
12.1. Toxicity		
Acute aquatic toxicity :	Very toxic to aquatic life.	
Chronic aquatic toxicity :	Very toxic to aquatic life with long lasting effects.	
Copper (7440-50-8)		
LC50 fish 1	0,0068 - 0,0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	
LC50 fish 2	< 0,3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	0,03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
EC50 72h algae (1)	0,0426 - 0,0535 mg/l (Species: Pseudokirchneriella subcapitata [static])	
EC50 96h algae (1)	0,031 - 0,054 mg/l (Species: Pseudokirchneriella subcapitata [static])	
Cobalt (7440-48-4)		
LC50 fish 1	> 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
NOEC (chronic)	0,003 mg/l (Exposure time: 28-day, reproduction and survival, Daphnia magna)	
NOEC chronic crustacea	<= 0,05 mg/l (Exposure time: 21-day, reproduction and survival, Daphnia magna)	
12.2. Persistence and degradability		
EOS NickelAlloy HX		
Persistence and degradability	Not established.	
	EN (English)	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

12.3. Bioaccumulative potential		
EOS NickelAlloy HX		
Log Pow	Not applicable	
Bioaccumulative potential	Not established.	
Cobalt (7440-48-4)		
BCF fish 1	(no bioaccumulation)	
12.4. Mobility in soil		

No additional information available

12.5.	Results of PBT and vPvB assessment				
EOS N	EOS NickelAlloy HX				
This su	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. E	12.6. Endocrine disrupting properties				
No additional information available					

Other adverse effects 12.7.

Additional information	: Avoid release to the environment.
<b>SECTION 13: Disposal consideratio</b>	15
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with applicable local, national and international regulation.

Ecology - waste materials

: Avoid release to the environment.

### **SECTION 14: Transport information**

### In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID				
14.1. UN number								
3077	3077	3077	3077	3077				
14.2. UN proper shippi	14.2. UN proper shipping name							
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	Environmentally hazardous substance, solid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Transport document descu								
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, (E)	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT	UN 3077 Environmentally hazardous substance, solid, n.o.s., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III				
14.3. Transport hazard	1	1						
9	9	9	9	9				
14.4. Packing group	1		1					
III	III	III	111	111				
14.5. Environmental hazards								
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes				
No supplementary information available								

		No supplementary info	rmation av
14.6.	Special precautions for user		
- Overl	and transport		
Classifi	cation code (ADR)	: M7	
Hazard	identification number (Kemler No.)	: 90	
<b>T</b>			

#### Tunnel restriction code (ADR) : E : Cobalt

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

#### - Transport by sea

EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-F
Danger releasing substance	:	Cobalt

### 14.7. Transport in bulk according to Annex 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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: Nickel

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### 15.1.2. National regulations

No additional information available

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### **SECTION 16: Other information**

Indication of changes:

According to Regulation (EU) 2015/830 (REACH Annex II).

Sources of Key data

: 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	te	xt of	H- and	EUH-statements:	
•		-			

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1		
Aquatic Chronic 3	Hazardous to the	e aquatic environment — Chronic Hazard, Category 3	
Carc. 1B	Carcinogenicity,	Category 1B	
Carc. 2	Carcinogenicity,	Category 2	
Eye Irrit. 2	Serious eye dam	age/eye irritation, Category 2	
Muta. 2	Germ cell mutag	enicity, Category 2	
Repr. 1B	Reproductive tox	vicity, Category 1B	
Resp. Sens. 1	Respiratory sens	itisation, Category 1	
Skin Sens. 1	Skin sensitisation	n, Category 1	
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1		
H302	Harmful if swallowed.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H341	Suspected of causing genetic defects.		
H350	May cause cancer.		
H351	Suspected of causing cancer.		
H360	May damage fertility or the unborn child.		
H360F	May damage 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.		
H412			
Classification and procedure used to d	erive the classifica	ation for mixtures according to Regulation (EC) 1272/2008 [CLP]:	
Resp. Sens. 1	H334	Calculation method	
Skin Sens. 1	H317	Calculation method	

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Muta. 2	H341	Calculation method
Carc. 1B	H350	Calculation method
Repr. 1B	H360	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Acute 1	H400	Summation method
Aquatic Chronic 1	H410	Summation method

### 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