Safety

Data

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Muggy Weld, LLC

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: Super Alloy 1 Rod **MANUFACTURER:** 

Muggy Weld LLC

1630 Shaker Church Rd NW Olympia, WA 98502 U.S.A. Phone: 866-684-4993

E-mail: mike@muggyweld.com

**EMERGENCY TELEPHONE NUMBER: 360-485-2887** 

#### SECTION 2: Hazards identification

#### Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity, Category 1A

H360

H362

Reproductive toxicity, Additional category, Effects on or via lactation

Hazardous to the aquatic environment — Acute Hazard, Category 1

Hazardous to the aquatic environment - Chronic Hazard, Category 1 H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May damage fertility. May damage the unborn child. May cause harm to breast-fed children. Very toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS08

GHS09

Signal word (CLP)

Hazardous ingredients

: Danger : Lead

Hazard statements (CLP)

: H360 - May damage fertility or the unborn child H362 - May cause harm to breast-fed children

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP)

: P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust, fume

P263 - Avoid contact during pregnancy/while nursing P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear protective gloves, eye protection, face protection, protective clothing

P308+P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

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# 

P405 - Store locked up

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

Other hazards not contributing to the classification

: In brazing metals give rise to thermally produced particulates of smaller dimension than may be produced if the metals are divided mechanically. Where insufficient ventilation or respiratory protection is available these particulates may produce "metal fume fever" in workers from an acute or long term exposure. This product contains Lead, Lead is harmful if absorbed into the body and can cause lead poisoning, may damage fertility or the unborn child, causes damage to organs through prolonged or repeated exposure, is very toxic to aquatic life, is harmful if inhaled and is suspected of causing cancer.

#### SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Tin substance with a Community workplace exposure limit substance with national workplace exposure limit(s) (GB)	(CAS No) 7440-31-5 (EC No) 231-141-8	10 - 60	Not classified
Cadmium substance listed as REACH Candidate	(CAS No) 7440-43-9 (EC No) 231-152-8	10 - 40	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lead	(CAS No) 7439-92-1 (EC No) 231-100-4	< 40	Lact., H362 Repr. 1A, H360Fd

Full text of H-statements: see section 16

#### SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion

- : Get medical advice/attention if you feel unwell.
- : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
- : Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
- Rinse cautiously with water for several minutes. If eye irritation persists: Get medical
- advice/attention.
- : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If large quantities are ingested, seek medical advice/attention.
- Most important symptoms and effects, both acute and delayed

Symptoms/injuries

Lead can cause weakness, insomnia, headache and possible paralysis. Chronic over exposure to lead may result in damage to the blood forming, nervous urinary and reproductive systems. Lead is classified as a 2B carcinogen by the IARC, evidence for carcinogenicity is adequate in animals but inadequate for humans. Severe lead toxicity has long been known to cause sterility, abortion and neonatal mortality and morbidity. It is unlikely that a significant amount of cadmium fume or dust can be inhaled from this material under normal conditions of use. Long term (chronic) or repeated exposure may result in irreversible kidney damage, damage to the lungs or liver, blood or bone disorders, immunosuppresion and an increased risk of cancer of the lungs or prostate. Short term (acute) exposure to high levels of fume or dust may be immediately dangerous to life or health. Symptoms of acute exposure may be irritation of the respiratory tract, cough, or metallic taste progressing to shortness of breath, chest pain, weakness, fever, headache, chills, sweating, muscular pain and pulmonary edema, which may result in death. Concentrations of fume between 40 – 50 mg/m3 for 1 hour or 9 gm/m3 for 5 hours resulting in fatalities have been noted.

Symptoms/injuries after inhalation

: ACUTE "Metal Fume Fever" Symptoms include: irritation of eyes, nose, throat, and skin; flu-like symptoms – sudden or delayed onset of chills, weakness, fatigue, nausea, vomiting, headache, diarrhea, muscular pains; tightness of chest; paralysis; loss of consciousness or death.

Symptoms/injuries after skin contact

: Repeated or prolonged contact may cause slight irritation to the skin.

Symptoms/injuries after eye contact Symptoms/injuries after ingestion

- : Dust from this product may cause eye irritation.
- : Not expected to present a significant ingestion hazard under anticipated conditions of normal use. There may be irritation to the throat.
- 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Use extinguishing media appropriate for surrounding fire,

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable.

Explosion hazard : Product is not explosive.

Reactivity in case of fire : Not known.

Hazardous decomposition products in case of

fire

: Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : No special measures required.

Firefighting instructions : Use extinguishing media appropriate for surrounding fire.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

#### SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid release to the environment.

6.1.1. For non-emergency personnel

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection.

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust, furne.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Wear suitable protective

clothing, gloves and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection". Avoid contact with skin and eyes. Do not breathe Dust, fume.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Pick up solid material. Place in a suitable container for disposal in accordance with the waste

regulations (see Section 13). This material and its container must be disposed of in a safe way,

and as per local legislation.

Other information : This material and its container must be disposed of as hazardous waste.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13:

"Disposal considerations".

### SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid

creating or spreading dust. Do not breathe dust, fume.

Hygiene measures : 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.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas.

Storage conditions : Store in a well-ventilated place.

Incompatible products : Corrosive substances.

Incompatible materials : Acetylene; ammonia; nitric acid; ethylene imine; sulfuric acid; chlorine trifluoride; peroxides;

permonosulfuric acid; peroxyformic acid; oxalic acid; tartaric acid; bromoazide; halogens;

bromine trifluoride; cupric nitrate; sulfur.

Storage area : Store in a well-ventilated place.

Packaging materials : Keep only in original container.

7.3. Specific end use(s)

Welding and soldering products, flux products.

#### SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Tin (7440-31-5)			
United Kingdom	Local name	Tin	
United Kingdom	WEL TWA (mg/m³)	2 mg/m³ compounds, inorganic, except SnH4, (as Sn4) 0.1 mg/m³ compounds, organic, except Cyhexatin (ISO), (as Sn)	
United Kingdom	WEL STEL (mg/m³)	4 mg/m³ compounds, inorganic, except SnH4, (as Sn4) 0.2 mg/m³ compounds, organic, except Cyhexatin (ISO), (as Sn)	
Cadmium (7440-43-9)			
United Kingdom	Local name	Cadmium	
United Kingdom	WEL TWA (mg/m³)	0.025 mg/m³ and cadmium compounds except cadmium oxide fume, cadmium sulphide and cadmium sulphide pigments (as Cd)	
United Kingdom	Remark (WEL)	Carc (Capable of causing cancer and/or heritable genetic damage. See paragraphs 49–51) (cadmium metal, cadmium chloride, fluoride and sulphate)	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Gloves, Safety glasses.

Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

During brazing operations, the most significant route of overexposure is via inhalation of fumes, in case of insufficient ventilation, wear suitable respiratory equipment.





#### Environmental exposure controls:

Avoid release to the environment.

Other information:

During brazing operations, the most significant route of overexposure is via inhalation of fumes.

## SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state

Appearance

: Silver-gray alloy. Metallic wire, rod, strip.

Colour

: Silver.

Odour

Odour threshold

: odourless.

: No data available

: No data available

Relative evaporation rate (butylacetate=1)

: No data available : No data available

Melting point 1/26/2017

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Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
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	: Not applicable	
Solubility	: insoluble in water.	
Log Pow	: No data available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: No data available	
Explosive properties	: Product is not explosive.	
Oxidising properties	: Oxidising solids Not applicable.	
Explosive limits	: Not applicable	
9.2. Other information		

## 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 normal conditions.

No additional information available

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acetylene; ammonia; nitric acid; ethylene imine; sulfuric acid; chlorine trifluoride; peroxides; permonosulfuric acid; peroxyformic acid; oxalic acid; tartaric acid; bromoazide; halogens; bromine trifluoride; cupric nitrate; sulfur.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: ACUTE "Metal Fume Fever" Symptoms include: irritation of eyes, nose, throat, and skin; flu-like symptoms — sudden or delayed onset of chills, weakness, fattigue, nausea, vomiting, headache, diarrhea, muscular pains; tightness of chest; paralysis; loss of consciousness or death. Acute exposure to cadmium may cause pneumonitis, bronchitis, and pulmonary edema. Chronic exposure may cause gastrointestinal symptoms, anemia, rhinitis, discoloration of teeth, kidney disease, microfractures, and cancer. (Based on available data, the classification criteria are not met)

Cadmium (7440-43-9)		
LD50 oral	1140 mg/kg	
LC50 inhalation rat (Dust/Mist - mg/l/4h)	0.0031 mg/l/4h	
Skin corrosion/irritation	: Not classified (Alloys in their solid state do not produce inhalation risks, skin or ingestion hazards. However, heating, welding, thermal spraying, cutting, brazing, grinding and machining may cause dust or fumes to be released which could be harmful if inhaled.)	
Additional information	: Contact dermatitis may result from direct exposure to the skin.	
Serious eye damage/irritation	: Not classified (Alloys in their solid state do not produce inhalation risks, skin or ingestion hazards. However, heating, welding, thermal spraying, cutting, brazing, grinding and machining may cause dust or fumes to be released which could be harmful if inhaled.)	
Additional information	: Dust from this product may cause eye irritation	
Respiratory or skin sensitisation	: Not classified (As supplied/shipped, these complex alloys in massive form have no known immediate health hazards other than causing allergic reactions in individuals sensitive to the metals contained in the alloys. Alloys in their solid state do not produce inhalation risks, skin or ingestion hazards. However, heating, welding, thermal spraying, cutting, brazing, grinding and machining may cause dust or fumes to be released which could be harmful if inhaled.)	

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	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>
Germ cell mutagenicity	: Cadmium if inhaled, is suspected of causing genetic defects. Severe lead toxicity has long been known to cause sterility, abortion and neonatal mortality and morbidity. (Alloys in their solid state do not produce inhalation risks, skin or ingestion hazards. However, heating, welding, thermal spraying, cutting, brazing, grinding and machining may cause dust or fumes to be released which could be harmful if inhaled.)
Carcinogenicity	: Lead is classified as a 2B carcinogen by the IARC, evidence for carcinogenicity is adequate in animals but inadequate for humans. (Based on available data the classification criteria are not met)
Reproductive toxicity	: Severe lead toxicity has long been known to cause sterility, abortion and neonatal mortality and morbidity.
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Alloys in their solid state do not produce inhalation risks, skin or ingestion hazards. However, heating, welding, thermal spraying, cutting, brazing, grinding and machining may cause dust or fumes to be released which could be harmful if inhaled.)
Other information	: Likely routes of exposure: inhalation.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Very toxic to aquatic life with long lasting effects.
Ecology - water	: Very toxic to aquatic life with long lasting effects.
40.0 Province and describe like	
12.2. Persistence and degradability	
Soldering Alloys (Cd & Pb Containing)  Persistence and degradability	The product is not biodegradable.
	The product to not bloody addisc.
12.3. Bioaccumulative potential	
Soldering Alloys (Cd & Pb Containing)  Bioaccumulative potential	Not established.
Lancing and the second	Hot established.
12.4. Mobility in soil	
Soldering Alloys (Cd & Pb Containing)  Ecology - soil	Not established.
P	WEEK TO THE PROPERTY OF THE PR
Component Cadmium (7440-43-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
Gaumani (7440-43-3)	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Other adverse effects	
Other adverse effects	: None known.
Additional information	: Avoid release to the environment
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
Regional legislation (waste)	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Avoid release to the environment. Dispose of contents/container to a hazardous or special waste collection point.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / A	DN
14.1. UN number	
UN-No. (ADR)	: 3077
UN-No. (IMDG)	: 3077
UN-No. (IATA)	: 3077
UN-No. (ADN)	: 3077
UN-No. (RID)	: 3077

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14.2. UN proper shipping name Proper Shipping Name (ADR)

Proper Shipping Name (IMDG)

EN (English)

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-43-9)) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-43-9))

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Proper Shipping Name (IATA) : Environmentally hazardous substance, solid, n.o.s. (Cadmium(7440-43-9))

Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-43-9))

Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-43-9))

Transport document description (ADR) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-

43-9)), 9, III, (E)

: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-Transport document description (IMDG)

43-9)), 9, III, MARINE POLLUTANT

Transport document description (IATA) : UN 3077 Environmentally hazardous substance, solid, n.o.s. (Cadmium(7440-43-9)), 9, III

Transport document description (ADN) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-

43-9)), 9, 111

Transport document description (RID) : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cadmium(7440-

43-9)), 9, 111

Transport hazard class(es) 14.3.

ADR

Transport hazard class(es) (ADR) : 9

Danger labels (ADR) : 9



IMDG

Transport hazard class(es) (IMDG) : 9

Danger labels (IMDG)



IATA

Transport hazard class(es) (IATA) : 9 : 9

Hazard labels (IATA)



ADN

Transport hazard class(es) (ADN) : 9 : 9

Danger labels (ADN)



Transport hazard class(es) (RID) : 9 : 9

Danger labels (RID)

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Packing group

Packing group (ADR) : 111 Packing group (IMDG) : 111 Packing group (IATA) : 111 Packing group (ADN) : 111 Packing group (RID) : 111

Environmental hazards

Dangerous for the environment : Yes Marine pollutant : Yes

Other information : No supplementary information available

#### 14.6. Special precautions for user

- Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 601, 375

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3 Mixed packing provisions (ADR) : MP10 Portable tank and bulk container instructions : T1, BK1, BK2

(ADR)

Portable tank and bulk container special : TP33

provisions (ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT Transport category (ADR) : 3 Special provisions for carriage - Packages : V13

(ADR)

Special provisions for carriage - Bulk (ADR) : VC1, VC2 Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.)

Orange plates

: 90 90 3077

: E

Tunnel restriction code (ADR)

EAC code : 2Z

- Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967

Limited quantities (IMDG) : 5 kg Excepted quantities (IMDG) : E1 Packing instructions (IMDG) : P002, LP02 Special packing provisions (IMDG) : PP12 IBC packing instructions (IMDG) : IBC08 IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : T1, BK1, BK2, BK3

Tank special provisions (IMDG) : TP33 EmS-No. (Fire) : F-A EmS-No. (Spillage) : S-F Stowage category (IMDG) : A

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MFAG-No

- Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y956 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 956 PCA max net quantity (IATA) : 400kg CAO packing instructions (IATA) : 956 CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA)

- Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 61 Limited quantities (ADN) : 5 kg

Excepted quantities (ADN) : E1 Carriage permitted (ADN) : T\* B\*\* Equipment required (ADN) : PP, A Number of blue cones/lights (ADN)

Additional requirements/Remarks (ADN) : \* Only in the molten state. \*\* For carriage in bulk see also 7.1.4.1. \*\* \* Only in the case of

transport in bulk.

- Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 601

Limited quantities (RID) : 5kg Excepted quantities (RID)

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3 Mixed packing provisions (RID) : MP10 Portable tank and bulk container instructions : T1, BK1, BK2

(RID)

Portable tank and bulk container special

: TP33

provisions (RID) Tank codes for RID tanks (RID)

: SGAV, LGBV

Transport category (RID) : 3

Special provisions for carriage - Packages

(RID)

: W13

Special provisions for carriage - Bulk (RID)

: VW1

Special provisions for carriage - Loading,

: CW13, CW31

unloading and handling (RID) Colis express (express parcels) (RID)

: CE11

Hazard identification number (RID)

: 90

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration ≥ 0.1% or with a lower specific limit: Cadmium (EC 231-152-8, CAS 7440-43-9)

Contains no REACH Annex XIV substances

15.1.2. National regulations

Seveso Directive: 2012/18/EU (Seveso III)

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

#### Full text of H- and EUH-statements:

Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Lact.	Reproductive toxicity, Additional category, Effects on or via lactation	
Repr. 1A	Reproductive toxicity, Category 1A	
H360	May damage fertility or the unborn child	
H360Fd	May damage fertility. Suspected of damaging the unborn child	
H362	May cause harm to breast-fed children	
H400	Very toxic to aquatic life	
H410	Very toxic to aquatic life with long lasting effects	

#### 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