

# IKAROS Line Thrower

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 31/12/2025 Version: 1.0



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

#### 1.1. Product identifier

Trade name : IKAROS Line Thrower  
Product code : 346100

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Relevant identified uses

Main use category : Professional use, Consumer use  
Use of the substance/mixture : Pyrotechnic linethrower

#### 1.3. Details of the supplier of the safety data sheet

Hansson PyroTech AB  
Köpingsvägen 35  
SE-711 31 Lindesberg  
Sweden  
Phone +46 58187250  
E-mail [info@hansson-pyrotech.com](mailto:info@hansson-pyrotech.com)  
Website [www.hansson-pyrotech.com](http://www.hansson-pyrotech.com)

#### 1.4. Emergency telephone number

Land/region	Organisation	Address	Emergency phone	Comment
UK	National Health Service (NHS) in England		111	24 hours a day, 7 days a week

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Expl. 1.3 H203  
Acute Tox. 4 (Oral) H302

##### Adverse physicochemical, human health and environmental effects

Explosive; fire, blast or projection hazard. Harmful if swallowed.

#### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS01

Signal word (CLP) : Danger  
Contains : Potassium perchlorate  
Hazard statements (CLP) : H203 - Explosive; fire, blast or projection hazard.  
Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P234 - Keep only in original container.  
P250 - Do not subject to grinding/shock/friction.

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P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P370+P372+P380+P373 - In case of fire: Explosion risk. Evacuate area. DO NOT fight fire when fire reaches explosives.  
P370+P380+P375 - In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.  
P401 - Store in accordance with local regulations on explosives.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional and national regulations.

### 2.3. Other hazards

The criteria for PBT/vPvB in Annex XIII to REACH are not relevant for inorganic substances  
Contains no PBT and/or vPvB substances  $\geq 0.1\%$  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 substance(s) are 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 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Potassium perchlorate	CAS-No.: 7778-74-7 EC-No.: 231-912-9 EC Index-No.: 017-008-00-5 REACH-no: 01-2120021000-89	72.34	Ox. Sol. 1, H271 Acute Tox. 4 (Oral), H302
Potassium nitrate	CAS-No.: 7757-79-1 EC-No.: 231-818-8 REACH-no: 01-2119488224-35	0.68	Ox. Sol. 2, H272 Aquatic Acute 1, H400
Sulphur	CAS-No.: 7704-34-9 EC-No.: 231-722-6 EC Index-No.: 016-094-00-1 REACH-no: 01-2119487295-27	0.14	Skin Irrit. 2, H315 Aquatic Chronic 3, H412

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water.  
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a doctor if symptoms persist.  
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Contact with burning product can cause severe burns.  
May cause nausea and vomiting if swallowed.  
May cause eye irritation.  
May be mildly irritating to the skin and respiratory system.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Use foam, dry chemical, CO<sub>2</sub> or mist early in the fire. Once the product is lit up, it is very difficult to extinguish.
- Unsuitable extinguishing media : Once the product is lit up, it is very difficult to extinguish with any extinguishing media.

### 5.2. Special hazards arising from the substance or mixture

- Fire and explosion hazard : Explosive; fire, blast or projection hazard. Explosion risk in case of fire.
- Hazardous decomposition products in case of fire : Large quantities of gas and heat.

### 5.3. Advice for firefighters

- Firefighting instructions : Evacuate area. Move containers away from the fire area if this can be done without risk. Remove all sources of ignition. Do not fight fire when fire reaches explosives. Do not enter fire area without proper protective equipment, including respiratory protection.
- 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 : Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

#### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

#### For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.
- Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See also sections 8 and 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Do not subject to grinding, shock, friction. Wear personal protective equipment. Avoid contact with skin and eyes.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in accordance with local regulations on explosives.

#### 7.3. Specific end use(s)

See section 1.2.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The product does not contain any substances with occupational exposure limits for respiratory tract exposure.

#### 8.2. Exposure controls

##### Appropriate engineering controls

Provide adequate ventilation.

##### Personal protection equipment

Wear recommended personal protective equipment. The personal protective equipment must be UKCA-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment. The protection equipment's suitability and durability will depend on application.

##### Eye and face protection

Type	Field of application	Standard
Safety glasses or face shield	Wear safety goggles if there is a risk of splash.	EN ISO 16321-1:2022

##### Skin protection

Wear suitable protective clothing

##### Hand protection

Type	Material	Thickness (mm)	Standard
Disposable gloves, Reusable gloves	Leather or similar	No data available	EN 21420:2020

##### Respiratory protection

Device	Filter type	Condition	Standard
Mask with dust filter	Filter type P2	If dust is produced	EN 143

##### Environmental exposure controls

Avoid release to the environment.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Red plastic container with handle, ignition mechanism in metal and white plastic cap. Contains coloured metal rocket and white synthetic string.
Odour	: Not available
Melting point	: Not available
Freezing point	: Not applicable
Boiling point	: Not available
Flammability	: The contents are flammable
Explosive properties	: Explosive; fire, blast or projection hazard
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: > 250 °C
Decomposition temperature	: Not available
pH	: Not available
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Insoluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density	: Not applicable
Particle size	: No data available

#### 9.2. Other information

No additional information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid temperature above 75 °C.

#### 10.5. Incompatible materials

No additional information available.

#### 10.6. Hazardous decomposition products

None under normal conditions. See also section 5.2.

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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Potassium nitrate (CAS No. 7757-79-1)	
LD50 oral rat	3750 mg/kg

Sulphur (CAS No. 7704-34-9)	
LD50 oral rat	> 3000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
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 (Based on available data, the classification criteria are not met)

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Viscosity, kinematic	Not applicable

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : 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 substance(s) are 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 %

### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

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Potassium perchlorate (CAS No. 7778-74-7)	
LC50 - Fish [1]	2511 mg/l

Potassium nitrate (CAS No. 7757-79-1)	
LC50 - Fish [1]	22.5 mg/l <i>Gambusia affinis</i>
EC50 - Crustacea [1]	5.4 mg/l <i>Daphnia magna</i>
EC50 72h - Algae [1]	0.14 mg/l

Sulphur (CAS No. 7704-34-9)	
LC50 - Fish [1]	866 mg/l <i>Brachydanio rerio</i>
EC50 - Crustacea [1]	> 5000 mg/l <i>D. magna</i>
EC50 72h - Algae [1]	12 mg/l

### 12.2. Persistence and degradability

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Persistence and degradability	Biodegradability determining methods are not relevant for inorganic substances

### 12.3. Bioaccumulative potential

Potassium nitrate (CAS No. 7757-79-1)	
Partition coefficient n-octanol/water (Log Pow)	< 0

Sulphur (CAS No. 7704-34-9)	
Partition coefficient n-octanol/water (Log Pow)	5.7

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

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The criteria for PBT/vPvB in Annex XIII to REACH are not relevant for inorganic substances	

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : 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 substance(s) are 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 %.

### 12.7. Other adverse effects

No additional information available.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Disposed of as hazardous waste by approved contractor. The waste code (EWC) is intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned below.
Sewage disposal recommendations	: Disposal must be done according to official regulations. Do not discharge into drains or rivers.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.
HP Code	: HP 1 - Explosive waste which is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic waste, explosive organic peroxide waste and explosive self-reactive waste is included. HP 6 - Acute Toxicity
EWC	16 04 02* fireworks wastes

### SECTION 14: Transport information

Packaging in approved cardboard may be transported with UN 0240; Swedish Civil Contingencies Agency (MSB) Cert No: 2025-03251

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
UN 0240	UN 0240	UN 0240	UN 0240	UN 0240
<b>14.2. UN proper shipping name</b>				
ROCKETS, LINE-THROWING	ROCKETS, LINE-THROWING	ROCKETS, LINE-THROWING	ROCKETS, LINE-THROWING	ROCKETS, LINE-THROWING
<b>Transport document description</b>				
UN 0240 ROCKETS, LINE-THROWING, 1.3G, (C5000D)	UN 0240 ROCKETS, LINE-THROWING, 1.3G	UN 0240 ROCKETS, LINE-THROWING, 1.3G	UN 0240 ROCKETS, LINE-THROWING, 1.3G (1.3G)	UN 0240 ROCKETS, LINE-THROWING, 1.3G (1.3G)
<b>14.3. Transport hazard class(es)</b>				
1.3G	1.3G	1.3G	1.3G	1.3G
				
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-B EmS-No. (Spillage): S-X	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

### 14.6. Special precautions for user

Limited quantities (ADR) : 0  
Excepted quantities (ADR) : E0  
Packing instructions (ADR) : P130  
Mixed packing provisions (ADR) : MP23, MP24  
Transport category (ADR) : 1  
Special provisions for carriage - Packages (ADR) : V2  
Special provisions for carriage - Loading, unloading and handling (ADR) : CV1, CV2, CV3  
Special provisions for carriage - Operation (ADR) : S1  
Tunnel restriction code (ADR) : (C5000D)

#### Transport by sea

Limited quantities (IMDG) : 0  
Excepted quantities (IMDG) : E0  
Packing instructions (IMDG) : P130  
Stowage category (IMDG) : 03  
  
Stowage and handling (IMDG) : SW1

#### Air transport

PCA Excepted quantities (IATA) : E0  
PCA Limited quantities (IATA) : Forbidden  
PCA limited quantity max net quantity (IATA) : Forbidden  
PCA packing instructions (IATA) : Forbidden  
PCA max net quantity (IATA) : Forbidden  
CAO packing instructions (IATA) : 130  
CAO max net quantity (IATA) : 75 kg  
Special provisions (IATA) : A802  
ERG code (IATA) : 1 L

#### Inland waterway transport

Limited quantities (ADN) : 0  
Excepted quantities (ADN) : E0  
Equipment required (ADN) : PP  
Provisions prior to loading (ADN) : LO01  
Provisions for handling and stowage of the cargo (ADN) : HA01, HA03

#### Rail transport

Limited quantities (RID) : 0  
Excepted quantities (RID) : E0  
Packing instructions (RID) : P130

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Mixed packing provisions (RID) : MP23, MP24  
Transport category (RID) : 1  
Special provisions for carriage – Packages (RID) : W2  
Special provisions for carriage - Loading, unloading and handling (RID) : CW1

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

Contains substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### ANNEX I RESTRICTED EXPLOSIVES PRECURSORS

List of substances which are not to be made available to, or introduced, possessed or used by, members of the general public, whether on their own or in mixtures or substances that include those substances, unless the concentration is equal to or lower than the limit values set out in column 2, and for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Limit value	Upper limit value for licensing under Article 5(3)	Combined Nomenclature (CN) code for a separate chemically defined compound meeting the requirements of Note 1 to Chapter 28 or 29 of the CN, respectively	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Potassium perchlorate	7778-74-7	40 % w/w	No licensing permitted	2829 90 10	3824 99 96

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### ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported within 24 hours.

Name	CAS-No.	Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Potassium nitrate	7757-79-1	2834 21 00	3824 99 96

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### National regulations

The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic

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Abbreviations and acronyms:	
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text 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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Expl. 1.3	Explosives, Division 1.3
Ox. Sol. 1	Oxidising Solids, Category 1
Ox. Sol. 2	Oxidising Solids, Category 2
H203	Explosive; fire, blast or projection hazard.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Expl. 1.3	H203	Tested
Acute Tox. 4 (Oral)	H302	Calculation method

Safety Data Sheet (SDS), EU

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.