

SECTION 1: Chemical Product and Company Identification

1.1. Product identifier

Product form : Mix
Commercial name : MINERAL CUTTING OIL AEROSOL
Product code : 110200
Type of product : Aerosol
Sprayer : Aerosol
Group of products : Commercial product

1.2. Uses of the substance or mix identified as relevant and uses recommended against

1.2.1. Uses identified as relevant

Intended for the general public
Main category of use : Use by consumers, Industrial use
Function or category of use : Lubricants and additives

1.2.2. Uses recommended against

No additional information available

1.3. Material safety data sheet issued by

VIRAX SAS

39, quai Marne

CS 40197

51206 EPERNAY Cedex

Tel: +33 (0)3 26 59 56 56 - Fax: +33 (0)3 26 59 56 60

Contact: hse@virax.com

1.4. Emergency telephone

Country	Organisation/Company	Address	Emergency telephone	Comment
France	ORFILA/INRS (24h/24)		+33 1 45 42 59 59	

SECTION 2: Hazards Identification

2.1. Classification of the substance or mix

Classification as per regulation (CE) No. 1272/2008 [CLP]

Aerosol, Category 1 H222;H229

Harmful to aquatic life with chronic effects, Category 3 H412

Full text of mentions H: see section 16

2.2. Labelling

Labelling as per regulation (CE) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Warning mention (CLP) : Hazard

Hazard mentions (CLP) : H222 - Extremely flammable aerosol
H229 - Pressurised container: May burst if heated
H412 - Harmful to aquatic life with long lasting effects

Cautionary advice (CLP) : P102 - Keep out of reach of children
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P251 - Do not pierce or burn, even after use

P273 - Avoid release to the environment

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F

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P501 - Dispose the content/container to a collection centre for hazardous or special waste, in compliance with local, regional, national and/or international regulations

Safety cap for children : No

Hazard indications detectable by touch : No

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on Ingredients

3.2 Mix

Hazardous ingredients	Product identifier	%	Classification as per regulation (CE) No. 1272/2008 [CLP]
butane	(CAS no.) 106-97-8 (CE number) 203-448-7 (Index number) 601-004-00-0	2.5 - 100	Flam. Gas 1, H220 Press. Gas C, H280
Distillates (oil derivatives), heavy paraffinic after hydrotreatment - IP 346 < 3%; viscosity ≤ 20.5 mm2/s at 40°C	(CAS no.) 64742-54-7 (CE number) 265-157-1 (Index number) 649-467-00-8	50 - 100	Asp. Tox. 1, H304
Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%]	(CAS no.) 68937-41-7 (CE number) 273-066-3	0.1 - 1	Repr. 2, H361 STOT RE 2, H373 Aquatic Chronic 2, H411
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	(CAS no.) 68649-42-3 (CE number) 272-028-3	0.1 - 1	Skin Irrit. 2, H315 Aquatic Chronic 2, H411
2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol	(CAS no.) 95-38-5 (CE number) 202-414-9	0.1 - 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Isopentane; 2-methylbutane	(CAS no.) 78-78-4 (CE number) 201-142-8 (Index number) 601-085-00-2	0.1 - 1	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066
triphenyl phosphate	(CAS no.) 115-86-6 (CE number) 204-112-2	0.1 - 0.25	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Complete text of the H phrases: see section 16

SECTION 4: First Aid Measures

4.1. Description of first aid

General first aid : Never administer anything orally to an unconscious person. In case of malaise consult a physician (if possible show this label).

After inhalation : Inhalation model: Exposure to aerosol/dust. In case of respiratory symptoms: Have the victim breathe fresh air, Call an ANTIPOIN CENTER immediately or a physician.

After skin contact : Rinse with water/have a shower. Remove immediately any contaminated clothing.

After eye contact : Rinse thoroughly with water immediately. Rinse with water immediately and thoroughly while maintaining the eyelids wide open (15 minutes at least) Consult a physician if the pain or rash persist.

After ingestion : Ingestion unlikely. Rinse the mouth. DO NOT induce vomiting. Consult immediately a physician.

4.2. Main symptoms and effects, acute and differed

Symptoms/lesions : Not considered to be hazardous in normal conditions of use.

4.3. Indication of any immediate medical care and particular treatments required

No additional information available

SECTION 5: Fire Fighting Measures

5.1. Extinguishing means

Appropriate extinguishing means : Foam. Dry powder. Carbon dioxide. Sprayed water. Sand.

Inappropriate extinguishing agents : Do not use a strong water jet.

5.2. Particular hazards resulting from the substance or mix

No additional information available

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5.3. Advice to fire fighters

- Protection in case of fire : Cool the containers exposed by water spray or mist. Be cautious when fighting any chemical fire. Prevent any contamination of the environment by fire fighting waters.
- Protection in case of fire : Do not enter the fire zone without protection equipment, including a respiratory protection.

SECTION 6: Accidental Release Measures

6.1. Individual precautions, protection equipment and emergency procedures

6.1.1. For non first aid workers

- Emergency procedures : Relocate non-essential personnel.

6.1.2. For first aid workers

- Protection equipment : Provide appropriate protection to the cleaning teams.
- Emergency procedures : Ventilate the zone.

6.2. Precautions for the protection of the environment

Prevent penetration in the sewers and drinkable water. Notify the authorities of any penetration of liquid in the sewers or public domain water.

6.3. Confinement and cleaning methods and equipment

- Cleaning processes : Absorb the product spill as soon as possible using inert solids such as clay or diatomite. Collect the spilled product. Store away from other materials. Do not rinse with water.

6.4. References to other sections

See section 8. Controls of personal exposure/protection.

SECTION 7: Handling and Storage

7.1. Precautions required for safe handling

- Precautions required for safe handling : Wash your hands and any other zone exposed with mild soap and water, before eating, drinking, smoking and before leaving work. Ensure the work zone has proper ventilation to prevent the formation of vapour.

7.2. Safe storage conditions, including any incompatibilities

- Storage conditions : Store closed in a dry, fresh and very well ventilated location. Keep the containers closed when not used. Keep away from sources of ignition; Pressurised container - Do not puncture or burn, even after use
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Sources of ignition. Direct sunshine.

7.3. Particular end use(s)

No additional information available

SECTION 8: Exposure Control / Personal Protection

8.1. Exposure limits

butane (106-97-8)		
France	Local name	n-Butane
France	VME (mg/m ³)	1900 mg/m ³
France	VME (ppm)	800 ppm
Isopentane; 2-methylbutane (78-78-4)		
France	Local name	Isopentane
France	VME (mg/m ³)	3000 mg/m ³
France	VME (ppm)	1000 ppm

8.2. Exposure controls

- Personal protection equipment : Avoid any useless exposure.
- Hand protection : Wear protection gloves. Gloves resisting to chemicals (as per the NF EN 374 standard or equivalent).;The appropriate glove shall be chosen not only according to the material, but also other quality characteristics, and differs from one manufacturer to another; Penetration time to be determined with the glove manufacturer.
- Eye protection : Anti-splash or safety goggles. Use an eye protection designed to protect against splashing as per EN 166.
- Protection of the airways : Wear an appropriate mask
- Other information : Do not eat, drink or smoke during use. Wash your hands after handling

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SECTION 9: Physical and Chemical Properties

9.1. Information on the main physical and chemical properties

Physical state	: Liquid
Appearance	: Colorless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Evaporation rate (butylic acetate =1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -44 °C
Flash point	: -97 °C
Self-ignition temperature	: the product does not ignite spontaneously
Decomposition temperature	: non determined
Flammability (solid, gas)	: 365 °C Extremely flammable aerosol
Vapour pressure	: 0.1 hPa at 20°C
Vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.45118 g/cm ³ at 20°C
Solubility in water	: Not or hardly miscible
Log Pow	: No data available
Kinematic viscosity	: 22 mm ² /s
Dynamic viscosity	: No data available
Explosive properties	: Can form explosive mixes with the air.
Oxidizing properties	: No data available
Explosivity limits	: 0.9 - 7 vol %

9.2. Other information

VOC content	: 30.13 %
Group of gases	: Liquefied gas

SECTION 10: Stability and Reactivity

10.1. Reactivity

No additional information available

10.2. Chemical Stability

No decomposition in normal storage conditions.

10.3. Reactivity, and under what conditions?

No hazardous reaction in normal conditions of use.

10.4. Conditions to be avoided

Direct sunshine. Extremely high or extremely low temperatures.

10.5. Incompatibility with other substances

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Smoke/ Carbon monoxide. Carbon dioxide.

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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute toxicity	: Non classified
Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%] (68937-41-7)	
DL50 oral rat	> 5000 mg/kg
DL50 skin rabbit	> 10000 mg/kg
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)	
DL50 oral rat	2230 mg/kg
DI 50 skin rat	> 2000 mg/kg
triphenyl phosphate (115-86-6)	
DL50 oral rat	3500 mg/kg
Distillates (oil derivatives), heavy paraffinic after hydrotreatment - IP 346 < 3%; viscosity ≤ 20.5 mm²/s at 40°C (64742-54-7)	
DL50 oral rat	> 5000 mg/kg
DL50 skin rabbit	> 5000 mg/kg
CL50 inhalation rat (mg/l)	> 5000 mg/l/4h
Skin corrosion/skin irritation	: Non classified Considering the data available, the classification criteria are not met. May cause slight skin irritation in case of prolonged or repeated contact
Severe eye lesions/eye irritation	: Non classified Considering the data available, the classification criteria are not met
Respiratory or skin sensitization	: Non classified Considering the data available, the classification criteria are not met
Mutagenicity on germinal cells	: Non classified Considering the data available, the classification criteria are not met
Carcinogenicity	: Non classified Considering the data available, the classification criteria are not met
Toxicity for reproduction	: Non classified Considering the data available, the classification criteria are not met
Specific toxicity for certain target organs (single exposure)	: Non classified Considering the data available, the classification criteria are not met
Specific toxicity for certain target organs (repeated exposure)	: Non classified Considering the data available, the classification criteria are not met
Inhaling hazard	: Non classified Considering the data available, the classification criteria are not met

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Sprayer	Aerosol
Kinematic viscosity	22 mm ² /s

Potential adverse effects for human health and possible symptoms : Considering the data available, the classification criteria are not met.

SECTION 12: Ecological Information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

Avoid product spilling in the environment

Drinking water pollution hazard by product penetration in the ground

12.2. Persistence and degradability

MINERAL CUTTING OIL AEROSOL	
Persistence and degradability	Non established.

12.3. Bioaccumulation potential

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Bioaccumulation potential	Non established.

12.4. Mobility in the soil

No additional information available

12.5. Results of PBT and VPVB evaluations

No additional information available

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12.6. Other adverse effects

Additional indications : Avoid spilling in the environment

SECTION 13: Disposal Considerations

13.1 Waste Disposal

Recommendations for waste disposal : Disposal to be made in compliance with legal prescriptions. Ensure that all national or local regulations are observed.

Environmental - waste : Avoid spilling in the environment.

SECTION 14: Transport Information

Complies with ADR / RID / IMDG / IATA / ADN requirements

14.1. UN number

UN no. (ADR) : 1950

UN no. (IMDG) : 1950

UN no. (IATA) : 1950

UN no. (ADN) : 1950

UN no. (RID) : 1950

14.2. Official UN transport designation

Official transport designation (ADR) : AEROSOLS

Official transport designation (IMDG) : AEROSOLS

Official transport designation (IATA) : Aerosols, flammable

Official transport designation (ADN) : AEROSOLS

Official transport designation (RID) : AEROSOLS

Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D)

Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1

14.3. Hazard class(es) for transport

ADR

Hazard class(es) for transport (ADR) : 2.1

Hazard labels (ADR) : 2.1



IMDG

Hazard class(es) for transport (IMDG) : 2.1

Hazard labels (IMDG) : 2.1



IATA

Hazard class(es) for transport (IATA) : 2.1

Hazard labels (IATA) : 2.1



ADN

Hazard class(es) for transport (ADN) : 2.1

Hazard labels (ADN) : 2.1

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RID

Hazard class(es) for transport (RID) : 2.1

Hazard labels (RID) : 2.1



14.4. Packaging group

Packaging group (ADR) : Non determined.

Packaging group (IMDG) : Non determined.

Packaging group (IATA) : Non determined.

Packaging group (ADN) : Non determined.

Packaging group (RID) : Non determined.

14.5. Hazards for the environment

Hazardous for the environment : No

Marine pollutant : No

Other information : No additional information available

14.6. Particular precautions to be taken by the user

- Road transport

Classification code (ADR) : 5F

Special provisions (ADR) : 190, 327, 344, 625

Limited quantities (ADR) : 1I

Quantities excepted (ADR) : E0

Packaging instructions (ADR) : P207, LP02

Special packaging provisions (ADR) : PP87, RR6, L2

Particular provisions relative to common packaging (ADR) : MP9

Transport category (ADR) : 2

Special transport provisions -
Parcels (ADR) : V14

Special transport provisions -
Loading, unloading and handling (ADR) : CV9, CV12

Special transport provisions -
Operation (ADR) : S2

Restriction code for tunnels (ADR) : D

- Maritime transport

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959

Limited quantities (IMDG) : SP277

Excepted quantities (IMDG) : E0

Packaging instructions (IMDG) : P207, LP02

Special packaging provisions (IMDG) : PP87, L2

FS no.(Fire) : F-D

FS no. (Spill) : S-U

Loading category (IMDG) : None

- Air transport

Excepted quantities passenger and cargo
aircraft (IATA) : E0

Limited quantities passenger and cargo
aircraft (IATA) : Y203

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Max net quantity for limited quantity passenger and cargo aircraft (IATA)	: 30kgG
Packaging instructions passenger and cargo aircraft (IATA)	: 203
Max net quantity for passenger and cargo aircraft (IATA)	: 75kg
Packaging instructions cargo only aircraft (IATA)	: 203
Max net quantity cargo only aircraft (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802
ERG code (IATA)	: 10L

- River transport

Classification code (ADN)	: 5F
Special provisions (ADN)	: 19, 327, 344, 625
Limited quantities (ADN)	: 1 L
Quantities excepted (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01, VE04
Number of blue cones/lights (ADN)	: 1

- Rail transport

Classification code (RID)	: 5F
Special provisions (RID)	: 190, 327, 344, 625
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E0
Packaging instructions (RID)	: P207, LP02
Special packaging provisions (RID)	: PP87, RR6, L2
Particular provisions relative to common packaging (RID)	: MP9
Transport category (RID)	: 2
Special transport provisions - Parcels (RID)	: W14
*Special transport provisions - Loading, unloading and handling (RID)	: CW9, CW12
Express parcels (RID)	: CE2
Hazard identification number (RID)	: 23

14.7. Bulk transport compliant with appendix II of the MARPOL 73/78 convention and IBC leaflet

Non determined.

SECTION 15: Regulatory Information

15.1. Regulations/legislation specific to the substance or mix in terms of safety, health and the environment

15.1.1. UE regulations

The following restrictions are applicable according to appendix XVII of Regulation (CE) No. 1907/2006 (REACH):	
3 Liquid substances or mixes considered to be hazardous in the meaning of directive 1999/45/CE or meeting the criteria for one of the hazard classes or categories below, covered in appendix I of regulation (CE) no. 1272/2008	Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%] - 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol - Isopentane. Distillates (oil derivatives), heavy paraffinic after hydrotreatment - IP 346 < 3%; viscosity ≤ 20.5 mm ² /s at 40°C
3.a. Substances or mixes meeting the criteria for one of the hazard classes or categories below, covered in appendix I of regulation (CE) no. 1272/2008 Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	MINERAL CUTTING OIL AEROSOL - Isopentane
3.b. Substances or mixes meeting the criteria for one of the hazard classes or categories below, covered in appendix I of regulation (CE) no. 1272/2008 Hazard classes 3.1 to 3.6, 3.7 adverse effects on the sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate > 5%] - 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol - Isopentane; Distillates (oil derivatives), heavy paraffinic after hydrotreatment - IP 346 < 3%; viscosity ≤ 20.5 mm ² /s at 40°C - Phenol, isopropyl, phosphate (3: 1) [Triphenyl phosphate > 5%]
3.c. Substances or mixes meeting the criteria for one of the classes or categories of hazard	MINERAL CUTTING OIL AEROSOL –

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below, set out in appendix I of regulation (CE) no.1272/2008: Hazard class 4.1	Phenol, isopropylated, phosphate (3: 1) [Triphenyl phosphate> 5%] - 2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol - Isopentane.
28 Substances listed in appendix VI, part 3, of regulation (CE) no. 1272/2008 classified "carcinogenic category 1A or 1B" (table 3.1) or "carcinogens category 1 or 2" (table 3.2) and listed as follows: carcinogenic substances category 1A (table 3.1)/carcinogenic substances category 1 (table 3.2) listed in appendix 1,carcinogenic substances category 1B (table 3.1)/carcinogenic substances category 2 (table 3.2) listed in appendix 2.	Distillates (oil derivatives), heavy paraffinic after hydrotreatment - IP 346 < 3%; viscosity ≤ 20.5 mm2/s à 40°C
40 Substances classified as flammable gasses, category 1 or 2, flammable liquids, category 1, 2 or 3, flammable solid materials, category 1 or 2, substances and mixes which, in contact with water, generate flammable gases, category 1, 2 or 3, pyrophoric liquids, category 1, or pyrophoric solid materials, category 1, whether they are included to appendix VI, part 3, of regulation (CE) no. 1272/2008 or not.	butane – Isopentane.

Contains no substance from the REACH candidate list

Contains no substance listed in Appendix XIV of REACH

VOC content : 30.13 %

Seveso Information : P5a FLAMMABLE LIQUIDS

- Threshold quantity (tons) for the application if requirements relative to 10t low threshold
- Threshold quantity (tons) for the application if requirements relative to 50t high threshold

15.1.2. National directives

Check that all national or local regulations are observed

15.2. Chemical safety evaluation

No chemical safety evaluation has been made

SECTION 16: Other Information

Change indication:

All sections	Formula/regulatory modification	Added/modified/Removed	
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Abbreviations and acronyms:	
VLE/VME	Exposure limit value/Average limit value
ADN	European agreement relative to international transport of freight by interior navigation ways
ADR	European agreement relative to international transport of hazardous freight by Road
ATE	Acute toxicity estimate
BCF	Bioconcentration factor
CIRC	International research centre on cancer
CL50	Lethal concentration for 50 % population tested (median lethal concentration)
CLP	Regulation relative to the classification, labelling and packaging; regulation (CE) no. 1272/2008
DMEL	Derived dose with minimum effect
DNEL	Derived dose without effect
DPD	Directive 1999/45/CE relative to hazardous preparations
DSD	Directive 67/548/CEE relative to hazardous substances
EC50	Effective median concentration
MSDS	Material Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Lethal dose for 50 % population tested (median lethal dose)
LOAEL	Minimal dose with noxious effect observed
NOAEC	Concentration without noxious effect observed
NOAEL	Dose without noxious effect observed
NOEC	Concentration without effect observed
OECD	Organisation for economical cooperation and development
PBT	Persistent, bioaccumulable and toxic
PNEC	Predicted non effect concentration(s)
REACH	Registration, evaluation, authorisation and restriction of chemical substances. Regulation (EU) REACH No. 1907/2006
RID	International regulation on the transport of hazardous goods by rail
STP	Treatment plant

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TLM	Median limit tolerance
vPvB	Very persistent and very bioaccumulable

Data sources : REGULATION (CE) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND COUNCIL of 16 December 2008 relative to the classification, labelling and packaging of substances and mixes, amending and abrogating the directives 67/548/CEE and 1999/45/CE and amending regulation (CE) no.1907/2006.

Training advice : This product is intended exclusively for the use described on its packaging.

Other information : Check that all national or local regulations are observed.

Complete text of the H and EUH phrases:	
Acute Tox. 4 (Oral)	Acute toxicity (by oral intake), Category 4
Aquatic Acute 1	Harmful to aquatic life — Acute hazard, Category 1
Aquatic Chronic 1	Harmful to aquatic life — Chronical hazard, Category 1
Aquatic Chronic 2	Harmful to aquatic life — Chronical hazard, Category 2
Asp. Tox. 1	Harmful by inhalation, Category 1
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 1	Flammable liquids, Category 1
Repr. 2	Harmful for reproduction, Category 2
Skin Corr. 1B	Corrosive/irritating for the skin, Category 1B
Skin Irrit. 2	Corrosive/irritating for the skin, Category 2
STOT RE 2	Specific toxicity for certain target organs - Repeated exposure, Category 2
STOT SE 3	Specific toxicity for certain target organs - Single exposure, Category 3
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H224	Extremely flammable liquid and vapour
H229	Pressurised container: May burst if heated
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility and or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

FDS UE (Appendix II REACH)

This information is based on our current knowledge and describe the product for the sole needs of health, safety and the environment. Therefore, it should not be interpreted as guaranteeing any specific property of the product