

NIES GmbH Elektro-Apparatebau  
57250 Netphen

Date printed 16.10.2024, Revision 15.10.2024

Version 7.0. Supersedes version: 6.0

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

### 1.1 Product identifier

**Spezialfett P 34**

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

#### 1.2.1 Relevant uses

Lubricant

#### 1.2.2 Uses advised against

None known.

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

#### Company

NIES GmbH Elektro-Apparatebau  
Hinterm Liesch 12  
57250 Netphen / GERMANY  
Phone +49 271 3178 7020  
Homepage [www.nies-gmbh.com](http://www.nies-gmbh.com)  
E-mail [info@nies-gmbh.com](mailto:info@nies-gmbh.com)

#### Address enquiries to

##### Technical information

[info@nies-gmbh.com](mailto:info@nies-gmbh.com)

##### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)  
Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Advisory body

Call NHS 111 or a doctor

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aquatic Acute 1: H400 Very toxic to aquatic life.  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

WARNING

#### Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P273 Avoid release to the environment.  
P391 Collect spillage.

### 2.3 Other hazards

#### Human health dangers

Contains no ingredients with endocrine-disrupting properties.

#### Environmental hazards

Does not contain any PBT or vPvB substances.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
> 30 - < 35	Distillates (petroleum), hydrotreated heavy naphthenic CAS: 64742-52-5, EINECS/ELINCS: 265-155-0, EU-INDEX: 649-465-00-7 GHS/CLP: Asp. Tox. 1: H304
> 5 - < 7	Amines, N-tallow alkyltrimethylenedi-, oleates CAS: 61791-53-5, EINECS/ELINCS: 263-186-4 GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT RE 2: H373 - Aquatic Acute 1: H400 - Aquatic Chronic 2: H411, M-Factor (acute): 10
> 5 - < 7	Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract) CAS: 64742-54-7, EINECS/ELINCS: 265-157-1, EU-INDEX: 649-467-00-8 GHS/CLP: Asp. Tox. 1: H304
> 4 - < 6	copper flakes (coated with aliphatic acid) EU-INDEX: 029-019-01-X GHS/CLP: Acute Tox. 3: H331 - Acute Tox. 4: H302 - Eye Irrit. 2: H319 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 10, M-Factor (chronic): 10
> 3 - < 5	Paraffin oils CAS: 8012-95-1, EINECS/ELINCS: 232-384-2 GHS/CLP: Asp. Tox. 1: H304
> 1 - < 2	Zinc oxide CAS: 1314-13-2, EINECS/ELINCS: 215-222-5, EU-INDEX: 030-013-00-7, Reg-No.: 01-2119463881-32-XXXX GHS/CLP: Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1

#### Comment on component parts

For full text of H-statements: see SECTION 16.

The copper contained is bound to a matrix of hydrocarbons and other additives and is therefore not freely available on contact with the environment.  
Contains less than 3% w/w DMSO-extract (only for mineral oils)

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off contaminated clothing and wash before reuse.

#### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

#### Skin contact

When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### Ingestion

Seek medical advice immediately.  
Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.

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

Irritant effects

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

Treat symptomatically.  
In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media      Carbon dioxide.  
Water spray jet.  
Dry powder.  
Foam.

Extinguishing media that must not  
be used      Full water jet.

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

Risk of formation of toxic pyrolysis products.  
Hydrogen fluoride (HF).

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within  
the local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.  
Use personal protective clothing.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

The product is combustible.

Do not eat, drink, smoke or take drugs at work.

Use barrier skin cream.

Wash hands before breaks and after work.

Take off contaminated clothing and wash before reuse.

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

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Protect from heat/overheating.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

## SECTION 8: Exposure controls / personal protection

### 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (UK)

Substance
Distillates (petroleum), hydrotreated heavy naphthenic
CAS: 64742-52-5, EINECS/ELINCS: 265-155-0, EU-INDEX: 649-465-00-7
Long-term exposure: 500 mg/m <sup>3</sup>
Paraffin oils
CAS: 8012-95-1, EINECS/ELINCS: 232-384-2
Long-term exposure: 5 mg/m <sup>3</sup> , oil mist TWA
Distillates (petroleum), hydrotreated light paraffinic
CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX
Long-term exposure: 5 mg/m <sup>3</sup> , ACGIH TLV (OIL MIST)
Distillates (petroleum), solvent-dewaxed light paraffinic (containing < 3% DMSO-extract)
CAS: 64742-56-9, EINECS/ELINCS: 265-159-2, EU-INDEX: 649-469-00-9
Long-term exposure: 1200 mg/m <sup>3</sup>
Distillates (petroleum), solvent-dewaxed heavy paraffinic (< 3% DMSO Extrakt)
CAS: 64742-65-0, EINECS/ELINCS: 265-169-7
Long-term exposure: 5 mg/m <sup>3</sup> , oil mist TWA

#### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

#### DNEL

Substance
Zinc oxide, CAS: 1314-13-2
There are no DNEL values established for the substance.
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
Industrial, inhalative, Long-term - systemic effects, 2.73 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 5.58 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 970 µg/kg bw/day
general population, inhalative, Long-term - local effects, 1.19 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 740 µg/kg bw/day

#### PNEC

Substance
Zinc oxide, CAS: 1314-13-2
freshwater, 17,9 µg/L
seawater, 9 µg/L
sewage treatment plants (STP), 124,5 µg/L
sediment (freshwater), 182,8 mg/kg sediment dw
sediment (seawater), 201,9 mg/kg sediment dw
soil, 103,4 mg/kg soil dw
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
oral (food), 9.33 mg/kg food

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,4 mm; Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Respiratory protection is only necessary if (strong) heating produces hazardous vapours/gases. Short term: filter apparatus, filter A. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	pasty
<b>Form</b>	pasty
<b>Color</b>	brown
<b>Odor</b>	characteristic
<b>Odour threshold</b>	not relevant
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point or initial boiling point and boiling range [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability</b>	not applicable
<b>Lower explosion limit</b>	not applicable
<b>Upper explosion limit</b>	not applicable
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/cm³]</b>	1,18 (20 °C / 68,0 °F)
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	> 20,5 mm²/s
<b>Relative vapour density</b>	not applicable
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	not self-igniting
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	not applicable

### 9.2 Other information

none



## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

### 10.2 Chemical stability

If product is heated above decomposition temperature toxic vapours may be released.

### 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

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

#### Acute oral toxicity

Product
ATE-mix, oral, > 2000 mg/kg
Substance
Zinc oxide, CAS: 1314-13-2
LD50, oral, Rat, >2000 mg/kg bw
NOAEL, oral, Rat, 31.52 mg/kg bw/day
Paraffin oils, CAS: 8012-95-1
LD50, oral, Rat, 24000 mg/kg bw (GESTIS)
Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, oral, Rat, 5000 mg/kg bw
Distillates (petroleum), hydrotreated heavy naphthenic, CAS: 64742-52-5
LD50, oral, Rat, > 5000 mg/kg OECD 401
Amines, N-tallow alkyltrimethylenedi-, oleates, CAS: 61791-53-5
LD10, oral, Rat, > 5000 mg/kg

#### Acute dermal toxicity

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Zinc oxide, CAS: 1314-13-2
LD50, dermal, Rat, >2000 mg/kg bw
LOAEL, dermal, Rat, 75 mg/kg bw/day
Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LD50, dermal, Rabbit, 2000 - 5000 mg/kg bw
Distillates (petroleum), hydrotreated heavy naphthenic, CAS: 64742-52-5
LD50, dermal, Rabbit, > 5000 mg/kg OECD 402
Amines, N-tallow alkyltrimethylenedi-, oleates, CAS: 61791-53-5
LD10, dermal, Rat, > 2000 mg/kg OECD 402

#### Acute inhalational toxicity

Product
ATE-mix, inhalation (vapour), > 20 mg/l 4h
Substance
Zinc oxide, CAS: 1314-13-2
LC50, inhalative, Rat, 1.79 - 5.7 mg/L air
NOAEL, inhalative, Rat, 1.5 mg/m³ air
Distillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
LC50, inhalative, Rat, 2.18 - 5.53 mg/L air, 4h
Distillates (petroleum), hydrotreated heavy naphthenic, CAS: 64742-52-5
LC50, inhalativ (mist), Rat, > 5,53 mg/l 4h OECD 403

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**Serious eye damage/irritation**

Non-irritant.

The contained dangerous materials are not freely available with foreseeable use.

Substance
Zinc oxide, CAS: 1314-13-2
Eye, Rabbit, OECD 405, non-irritating

**Skin corrosion/irritation**

Based on the available information, the classification criteria are not fulfilled.

Substance
Zinc oxide, CAS: 1314-13-2
dermal, Rabbit, In vivo study, non-irritating

**Respiratory or skin sensitisation**

Based on the available information, the classification criteria are not fulfilled.

Substance
Zinc oxide, CAS: 1314-13-2
dermal, Guinea pig, OECD 406, non-sensitizing

**Specific target organ toxicity —  
single exposure**

Based on the available information, the classification criteria are not fulfilled.

**Specific target organ toxicity —  
repeated exposure**

Based on the available information, the classification criteria are not fulfilled.

Substance
Zinc oxide, CAS: 1314-13-2
NOAEL, oral, Rat, 13,3 mg/kg bw/day, OECD 408, adverse effect observed
NOAEL, inhalative, Rat, 1,5 mg/m³, OECD 413, adverse effect observed
LOAEL, dermal, Rat, 75 mg/kg bw/day, OECD 410, adverse effect observed
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOAEL, dermal, Rat, 30 - 2000 mg/kg bw/day
NOAEC, inhalative, Rat, 980 mg/m³ air
LOAEL, oral, Rat, 125 mg/kg bw/day

**Mutagenicity**

Based on the available information, the classification criteria are not fulfilled.

Substance
Zinc oxide, CAS: 1314-13-2
in vitro, OECD 471, negativ

**Reproduction toxicity**

Based on the available information, the classification criteria are not fulfilled.

**- Fertility**

Substance
Zinc oxide, CAS: 1314-13-2
NOAEL, oral, Rat, 20 mg/kg bw/day, In vivo study, no adverse effect observed

**- Development**

Substance
Zinc oxide, CAS: 1314-13-2
NOAEC, inhalativ (mist), Rat, 7,5 mg/m³, OECD 414, no adverse effect observed

**Carcinogenicity**

Based on the available information, the classification criteria are not fulfilled.

Substance
Zinc oxide, CAS: 1314-13-2



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oral, mouse, In vivo study, no adverse effect observed

**Aspiration hazard** Based on the available information, the classification criteria are not fulfilled.

**General remarks**

Toxicological data of complete product are not available.

## 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** Contains no ingredients with endocrine-disrupting properties.

**11.2.2 Other information** none

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Zinc oxide, CAS: 1314-13-2
LC50, (96h), Fish, 112 - 8062 µg/L
EC50, (96h), Invertebrates, 72 - 103 µg/L
EC50, (96h), Algae, 300 - 1940 µg/L
Destillates (petroleum), hydrotreated heavy paraffinic (containing < 3% DMSO-extract), CAS: 64742-54-7
NOELR, (14d), Fish, 1 g/L
LL50, (96h), Invertebrates, 10 g/L
LL50, (96h), Fish, 100 mg/L
Distillates (petroleum), hydrotreated heavy naphthenic, CAS: 64742-52-5
EL50, (48h), Daphnia magna, > 10 000 mg/L
EL50, (72h), Pseudokirchneriella subcapitata, > 100 mg/L
NOEC, (21d), Daphnia magna, 10 mg/L
NOELR, (72h), Pseudokirchneriella subcapitata, 100 mg/L
LL50, (96h), Pimephales promelas, > 100 mg/L
Amines, N-tallow alkyltrimethylenedi-, oleates, CAS: 61791-53-5
LC50, (96h), Danio rerio, > 0,1 - 1 mg/L
EC50, (48h), Daphnia magna, > 0,1 - 1 mg/L
EC50, (72h), Algae, > 0,01 - 0,1 mg/L
NOEC, (72h), Algae, > 0,01 - 0,1 mg/L OECD 201

### 12.2 Persistence and degradability

**Behaviour in environment compartments** not determined

**Behaviour in sewage plant** not determined

**Biological degradability** not determined

Substance
Zinc oxide, CAS: 1314-13-2
The methods for determining the biological degradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

#### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

Ecological data of complete product are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

Coordinate disposal with the authorities if necessary.

Disposal in an incineration plant in accordance with the regulations of the local authorities.

##### Waste no. (recommended)

120112\* spent waxes and fats

##### Contaminated packaging

Uncontaminated packaging may be reused.

Packaging that cannot be cleaned should be disposed of as for product.

##### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances  
150102

### SECTION 14: Transport information

#### 14.1 UN number or ID number

Transport by land according to ADR/RID 3077

Inland navigation (ADN) 3077

Marine transport in accordance with IMDG 3077

Air transport in accordance with IATA 3077

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#### 14.2 UN proper shipping name

Transport by land according to  
ADR/RID

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, oleates, Copper)

- Classification Code

M7

- Label



- ADR LQ

5 kg

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (-)

Inland navigation (ADN)

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, oleates, Copper)

- Classification Code

M7

- Label



Marine transport in accordance with  
IMDG

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, oleates, Copper)

- EMS

F-A, S-F

- Label



- IMDG LQ

5 kg

Air transport in accordance with IATA

Environmentally hazardous substance, solid, n.o.s. (Amines, N-tallow alkyltrimethylenedi-, oleates, Copper)

- Label



#### 14.3 Transport hazard class(es)

Transport by land according to  
ADR/RID

9 (N)

Inland navigation (ADN)

9 (N)

Marine transport in accordance with  
IMDG

9

Air transport in accordance with IATA

9

#### 14.4 Packing group

Transport by land according to  
ADR/RID

III

Inland navigation (ADN)

III

Marine transport in accordance with  
IMDG

III

Air transport in accordance with IATA

III

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#### 14.5 Environmental hazards

Transport by land according to ADR/RID	yes
Inland navigation (ADN)	yes
Marine transport in accordance with IMDG	MARINE POLLUTANT
Air transport in accordance with IATA	yes

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not determined

### SECTION 15: Regulatory information

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

EEC-REGULATIONS	2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq 0.1\%$ that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq 0.1\%$ of substances with the following restrictions. 75 According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to any restrictions.
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)
NATIONAL REGULATIONS (UK):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- Observe employment restrictions for people	Observe employment restrictions for women of child-bearing age, for mothers-to-be and nursing mothers and for young people.
- VOC (2010/75/CE)	34 %

#### 15.2 Chemical safety assessment

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.  
H302 Harmful if swallowed.  
H331 Toxic if inhaled.  
H411 Toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.

## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV®/TWA = Threshold limit value – time-weighted average  
TLV®STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

Aquatic Acute 1: H400 Very toxic to aquatic life. (Calculation method)  
Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (Calculation method)

### Modified position

2.1, 2.3, 3.2, 8.1, 15.1, 16.3

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