

OSBORN International GmbH
42781 Haan

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

1.1 Product identifier

UNIPOL® Metal-Polish

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

1.2.1 Relevant uses

Polishing agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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Technical information polishing@osborn.de
Safety Data Sheet sschirpenbach@osborn.de

1.4 Emergency telephone number

Advisory body +49 (0) 30-30686700 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms none

Signal word none

Hazard statements H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.
P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

Human health dangers If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards Does not contain any PBT or vPvB substances.

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

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SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
5 - 10	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 920-107-4, Reg-No.: 01-2119453414-43-XXXX
	GHS/CLP: Asp. Tox. 1: H304 -
5 - 10	Hydrocarbons, C13-C16, isoalkanes, cyclics, <2% aromatics
	CAS: 64742-47-8, EINECS/ELINCS: 918-973-3, Reg-No.: 01-2119458871-30
	GHS/CLP: Asp. Tox. 1: H304
5 - 10	Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics
	CAS: 64742-47-8, EINECS/ELINCS: 921-050-8, Reg-No.: 01-2119485032-45-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - 5	Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	CAS: 64742-47-8, EINECS/ELINCS: 926-141-6, EU-INDEX: 649-422-00-2, Reg-No.: 01-2119456620-43-0000
	GHS/CLP: Asp. Tox. 1: H304
1 - 5	Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics
	EINECS/ELINCS: 917-488-4, Reg-No.: 01-2119458943-27
	GHS/CLP: Asp. Tox. 1: H304
<1	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)
	CAS: 68155-07-7, EINECS/ELINCS: 931-329-6, Reg-No.: 01-2119490100-53-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Aquatic Chronic 2: H411
<1	Ammonia solution
	CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119488876-14-XXXX
	GHS/CLP: Skin Corr. 1B: H314 - Aquatic Acute 1: H400 - STOT SE 3: H335, M = 1

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

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
Headache
Vertigo
Drowsiness

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
If swallowed or in the event of vomiting, risk of product entering the lungs.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

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

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.

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with
the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Keep away from all sources of ignition.
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

Use only in well-ventilated areas.
Provide suitable vacuuming at the processing area.
Keep only in original container.
Keep away from all sources of ignition.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Do not eat, drink, smoke or take drugs at work.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
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.
Keep container in a well-ventilated place.
Protect from heat/overheating.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EINECS/ELINCS: 920-107-4, Reg-No.: 01-2119453414-43-XXXX
Long-term exposure: 1200 mg/m ³
Hydrocarbons, C13-C16, isoalkanes, cyclics, <2% aromatics
CAS: 64742-47-8, EINECS/ELINCS: 918-973-3, Reg-No.: 01-2119458871-30
Long-term exposure: 1200 mg/m ³
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics
CAS: 64742-47-8, EINECS/ELINCS: 921-050-8, Reg-No.: 01-2119485032-45-XXXX
Long-term exposure: 1200 mg/m ³
Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EINECS/ELINCS: 917-488-4, Reg-No.: 01-2119458943-27
Long-term exposure: 1200 mg/m ³
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
CAS: 64742-47-8, EINECS/ELINCS: 926-141-6, EU-INDEX: 649-422-00-2, Reg-No.: 01-2119456620-43-0000
Long-term exposure: 1200 mg/m ³
Ammonia solution
CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119488876-14-XXXX
Long-term exposure: 25 ppm, 18 mg/m ³
Short-term exposure (15-minute): 35 ppm, 25 mg/m ³ , 15 min
Aluminium oxide
CAS: 1344-28-1, EINECS/ELINCS: 215-691-6, Reg-No.: 01-2119529248-35-XXXX
Long-term exposure: 10 mg/m ³ , inhalable dust (respirable dust: 4 mg/m ³)

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Ammonia solution
CAS: 1336-21-6, EINECS/ELINCS: 215-647-6, EU-INDEX: 007-001-01-2, Reg-No.: 01-2119488876-14-XXXX
Eight hours: 20 ppm, 14 mg/m ³

DNEL

Substance
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl), CAS: 68155-07-7
Industrial, dermal, Long-term - local effects: 0,09 mg/cm ² .
Industrial, dermal, Long-term - systemic effects: 4,16 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 73,4 mg/m ³ .
general population, oral, Long-term - systemic effects: 6,25 mg/kg bw/day.
general population, dermal, Long-term - local effects: 0.056 mg/cm ² .
general population, dermal, Long-term - systemic effects: 2,5 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 21,73 mg/m ³ .
Ammonia solution, CAS: 1336-21-6
Industrial, inhalative, Long-term - systemic effects: 14 mg/m ³ (NH3).
Industrial, inhalative, Acute - systemic effects: 38 mg/m ³ (NH3).
Industrial, dermal, Acute - systemic effects: 6,8 mg/kg (NH3).
Industrial, oral, Acute - systemic effects: 6,8 mg/kg bw/d (NH3).

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PNEC

Substance
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl), CAS: 68155-07-7
soil, 0,035 mg/kg.
sediment (seawater), 0,019 mg/kg.
sediment (freshwater), 0,195 mg/kg.
sewage treatment plants (STP), 0,83 g/l.
seawater, 0,7 µg/l.
freshwater, 7 µg/l.
Ammonia solution, CAS: 1336-21-6
seawater, 0,011 mg/l.
freshwater, 0,0011 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0,7mm Butyl rubber, >120 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing.
Other	Do not inhale vapours. 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.
Respiratory protection	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
Thermal hazards	none
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	blue
Odor	characteristic
Odour threshold	not required
pH-value	9-10
pH-value [1%]	not determined
Boiling point [°C]	not determined
Flash point [°C]	>61
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,17 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	partially miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	>20,5 mm²/s (40°C)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined

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

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

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

10.4 Conditions to avoid

Heating

10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics, CAS: 64742-47-8
LD50, dermal, Rabbit: > 2000 mg/kg bw.
LD50, oral, Rat: > 5000 mg/kg bw.
Hydrocarbons, C13-C16, isoalkanes, cyclics, <2% aromatics, CAS: 64742-47-8
LD50, oral, Rat: 5000 mg/kg bw.
LD50, dermal, Rat: >2000 mg/kg bw.
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8
LD50, dermal, Rat: >5000 mg/kg (OECD 402).
LD50, oral, Rat: >5000 mg/kg (OECD 401).
LC50, inhalative, Rat: >5000 mg/m³/8h (OECD 403).
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl), CAS: 68155-07-7
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: > 5000 mg/kg.
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics
LD50, oral, Rat: > 5000 mg/kg (OECD 401).
LD50, dermal, Rabbit: > 5000 mg/kg (OECD 402).
LC50, inhalative, Rat: > 4951 mg/m³ (4 h) (OECD 403).
Ammonia solution, CAS: 1336-21-6
LD50, inhalative, mouse: 91 mg/kg (NH3).
LD50, oral, Rat: 350 mg/kg (NH3).
LC50, inhalative, Rat: 2000 mg/l (NH3).
LDLo, oral, Human: 43 mg/kg (NH3).

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Respiratory or skin sensitisation	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available. Calculation method
Mutagenicity	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Reproduction toxicity	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Carcinogenicity	Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	Frequent persistent contact with the skin can cause skin irritation. none

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Hydrocarbons, C13-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics, CAS: 64742-47-8
NOEC, (96h), fish: > 100 mg/l.
LL50, (48h), Daphnia magna: > 100 mg/l.
LL50, (96h), fish: > 100 mg/l.
Hydrocarbons, C13-C16, isoalkanes, cyclics, <2% aromatics, CAS: 64742-47-8
EL50, (48h), Daphnia magna: > 1000 mg/l (OECD 202).
EL50, (72h), Pseudokirchneriella subcapitata: > 1000 mg/l (OECD 201).
LL50, (96h), fish: > 87556 mg/l (OECD 203).
Hydrocarbons, C11- C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics, CAS: 64742-47-8
EL0, (48h), Daphnia magna: 1000 mg/l.
EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l.
LL0, (96h), Oncorhynchus mykiss: 1000 mg/l.
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl), CAS: 68155-07-7
LC50, fish: 2,4 mg/l.
EC50, Daphnia magna: 3,2 mg/l.
IC50, Algae: 3,9 mg/l.
NOEC, (21d), Daphnia magna: 0,07 mg/l OECD 211.
Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclics, < 2% aromatics
EL0, (72h), Pseudokirchneriella subcapitata: 1000 mg/l (Lit.).
EL0, (48h), Daphnia magna: 1000 mg/l (Lit.).
NOELR, (72h), Pseudokirchneriella subcapitata: 1000 mg/l (Lit.).
LL0, (96h), Oncorhynchus mykiss: 1000 mg/l (Lit.).
Ammonia solution, CAS: 1336-21-6
LC50, (48h), Daphnia magna: 25,4 mg/l.
LC50, (96h), Daphnia magna: 0,101 mg/l (NH3).
LC50, (96h), fish: 0,89 mg/l (NH3).
LC50, (96h), Salmo gairdneri: 0,53 mg/l.
LC50, (96h), Pimephales promelas: >0,7 mg/l.
LC50, (96h), Lepomis macrochirus: >0,2 mg/l.
LC50, (96h), Cyprinus carpio: 1,1 mg/l.
LC50, (96h), Salmo gairdneri: >0,1 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments not determined

Behaviour in sewage plant not determined

Biological degradability not determined

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.

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12.6 Other adverse effects

None known.

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

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

070601*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*
150102

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people No special measures necessary.

- VOC (2010/75/CE) ~25 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H314 Causes severe skin burns and eye damage.
H411 Toxic to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H315 Causes skin irritation.
H304 May be fatal if swallowed and enters airways.

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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
 ELINCS = European List of Notified Chemical Substances
 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
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 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 Chronic 3: H412 Harmful to aquatic life with long lasting effects. ()

Modified position

SECTION 16 been added: GENERAL REVIEW

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