

Delu Ako Minky GmbH
53619 Rheinbreitbach

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

1.1 Product identifier

SILBO Profi Goldbad / Profi Gold Bath

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

1.2.1 Relevant uses

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Delu Ako Minky GmbH
Hauptstraße 103
53619 Rheinbreitbach / GERMANY
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Homepage www.silbo.de
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Address enquiries to

Technical information info@silbo.de
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0) 551-19240 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Carc. 2: H351 Suspected of causing cancer.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.
Eye Dam. 1: H318 Causes serious eye damage.
Repr. 2: H361d Suspected of damaging the unborn child.
Skin Irrit. 2: H315 Causes skin irritation.

2.2 Label elements

The product is required to be labelled in accordance with GHS/CLP-Directives.

Hazard pictograms



Signal word

DANGER

Contains:

Thiourea

Fattyalcohol polyglycolether, C10-14 (6EO)

Hazard statements

H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.
H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H315 Causes skin irritation.

Precautionary statements

P201 Obtain special instructions before use.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER / doctor.
P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

Cleaner, 648/2004/CE, contains:

< 5% non-ionic surfactants
fragrances LINALOOL
fragrances HEXYL CINNAMAL
fragrances

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2.3 Other hazards

Other hazards

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

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
5 - <10	Thiourea
	CAS: 62-56-6, EINECS/ELINCS: 200-543-5, EU-INDEX: 612-082-00-0
	GHS/CLP: Carc. 2: H351 - Repr. 2: H361d - Acute Tox. 4: H302 - Aquatic Chronic 2: H411, M = 1
5 - <10	2-Butoxyethanol
	CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0, Reg-No.: 01-2119475108-36-XXXX
	GHS/CLP: Acute Tox. 4: H302 H312 H332 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319
5 - <10	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
3 - <5	Fattyalcohol polyglycoether, C10-14 (6EO)
	CAS: 69227-22-1
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302
1 - <5	Phosphoric acid
	CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX
	GHS/CLP: Skin Corr. 1B: H314 - Met. Corr. 1: H290

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

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

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

Skin contact

In case of contact with skin wash off immediately with plenty of 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

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

4.2 Most important symptoms and effects, both acute and delayed

Nausea, vomiting.
Gastro-intestinal complains.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Alcohol-resistant 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.
Carbon monoxide (CO).
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Do not inhale explosion and/or combustion gases.
Cool containers at risk with water spray jet.
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

Keep away from all sources of ignition.
Ensure adequate ventilation.
Use personal protective clothing.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Take up with absorbent material (e.g. acid binder).
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.
Use solvent-resistant equipment.
Keep away from open flames, hot surfaces and sources of ignition.
Do not eat, drink or smoke when using this product.
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
Use barrier skin cream.
Contaminated work clothing should not be allowed out of the workplace.
Take off contaminated clothing and wash before reuse.

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7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Provide acid-resistant floor.

Do not store together with oxidizing agents.

Do not store with alkalis.

Protect from heat/overheating.

Keep container in a well-ventilated place.

Keep container tightly closed.

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
2-Butoxyethanol
CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0, Reg-No.: 01-2119475108-36-XXXX
Long-term exposure: 25 ppm, 123 mg/m ³ , Sk, BMGV
Short-term exposure (15-minute): 50 ppm, 246 mg/m ³
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
Phosphoric acid
CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX
Long-term exposure: 1 mg/m ³
Short-term exposure (15-minute): 2 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
2-Butoxyethanol
CAS: 111-76-2, EINECS/ELINCS: 203-905-0, EU-INDEX: 603-014-00-0, Reg-No.: 01-2119475108-36-XXXX
Eight hours: 20 ppm, 98 mg/m ³ , H
Short-term (15-minute): 50 ppm, 246 mg/m ³
Phosphoric acid
CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6, Reg-No.: 01-2119485924-24-XXXX
Eight hours: 1 mg/m ³
Short-term (15-minute): 2 mg/m ³

DNEL

Substance
Propan-2-ol, CAS: 67-63-0
Industrial, dermal, Long-term - systemic effects: 888 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ .
general population, oral, Long-term - systemic effects: 26 mg/kg.
general population, dermal, Long-term - systemic effects: 319 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 89 mg/m ³ .
Phosphoric acid, CAS: 7664-38-2
Industrial, inhalative, Long-term - local effects: 2,92 mg/m ³ .
general population, inhalative, Long-term - local effects: 0,73 mg/m ³ .
2-Butoxyethanol, CAS: 111-76-2
Industrial, dermal, Long-term - systemic effects: 75 mg/kg.
Industrial, dermal, Acute - systemic effects: 89 mg/kg.
Industrial, inhalative, Acute - local effects: 246 mg/m ³ , 50 ppm.
Industrial, inhalative, Long-term - systemic effects: 98 mg/m ³ , 20 ppm.
Industrial, inhalative, Acute - systemic effects: 663 mg/m ³ , 135 ppm.
general population, oral, Long-term - systemic effects: 3,2 mg/kg.
general population, dermal, Acute - systemic effects: 44,5 mg/kg.
general population, inhalative, Acute - systemic effects: 426 mg/m ³ .

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general population, oral, Acute - systemic effects: 13,4 mg/kg.
general population, inhalative, Acute - local effects: 123 mg/m ³ .
general population, dermal, Long-term - systemic effects: 38 mg/kg.
general population, inhalative, Long-term - systemic effects: 49 mg/m ³ .

PNEC

Substance
Propan-2-ol, CAS: 67-63-0
freshwater, 140,9 mg/l.
seawater, 140,9 mg/l.
sediment (freshwater), 552 mg/kg.
sediment (seaater), 552 mg/kg.
soil, 28 mg/kg.
sewage treatment plants (STP), 2251 mg/l.
Phosphoric acid, CAS: 7664-38-2
There are no PNEC values established for the substance.,
2-Butoxyethanol, CAS: 111-76-2
soil, 2,8 mg/kg.
sediment (seaater), 3,46 mg/kg.
sediment (freshwater), 34,6 mg/kg.
sewage treatment plants (STP), 463 mg/l.
seawater, 0,88 mg/l.
freshwater, 8,8 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: > 0,4 mm: PVA, >480 min (EN 374).
Skin protection	Acid-resistant protective clothing.
Other	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. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.
Respiratory protection	Not required under normal conditions. Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	red
Odor	characteristic
Odour threshold	not determined
pH-value	1,6
Boiling point [°C]	not determined
Flash point [°C]	40 (no independent burn maintains)
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,00
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not applicable
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not determined
Decomposition temperature [°C]	not determined

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalis (lyes).
Reactions with strong oxidizing agents.

10.4 Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.
In the event of fire: See SECTION 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Fattyalcohol polyglycoether, C10-14 (6EO), CAS: 69227-22-1
LD50, oral, 1800 mg/kg.
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit: 13900 mg/kg OECD 402.
LD50, oral, Rat: 5840 mg/kg OECD 401.
LC50, inhalative, Rat: > 25 mg/l (6h) OECD 403.
Thiourea, CAS: 62-56-6
LD50, dermal, Rabbit: > 2000 mg/kg (Lit.).
LD50, oral, Rat: 1750 mg/kg (Lit.).
Phosphoric acid, CAS: 7664-38-2
LD50, dermal, Rabbit: 2740 mg/kg (Lit.).
LD50, oral, Rat: 1530 mg/kg (Lit.).
LC50, inhalative, Rat: > 0,85 mg/l (1h) (Lit.).
2-Butoxyethanol, CAS: 111-76-2
LD50, dermal, Guinea pig: > 2000 mg/kg (OECD 402).
LD50, oral, Guinea pig: 1414 mg/kg.
LD50, oral, Rat: 1746 mg/kg (OECD 401).
LC0, inhalativ (vapour), > 3,1 mg/l/1h.

Serious eye damage/irritation	Risk of serious damage to eyes.
Skin corrosion/irritation	In-vitro-Test "Corrosive" negative. Irritant
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
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.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Does contain a relevant substance that meets the classification criteria.
Carcinogenicity	Does contain a relevant substance that meets the classification criteria.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Analogous to product with a similar composition.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Fattyalcohol polyglycoether, C10-14 (6EO), CAS: 69227-22-1
LC50, Brachidanio rerio: > 1-10 mg/l (DIN EN ISO 7346-2).
EC0, Pseudomonas putida: > 100 mg/l (OECD-209).
Propan-2-ol, CAS: 67-63-0
LC50, (24h), Daphnia magna: 9714 mg/l.
LC50, (96h), Pimephales promelas: 9640 mg/l.
EC50, (72h), Scenedesmus subspicatus: > 100 mg/l.
Thiourea, CAS: 62-56-6
LC50, (96h), Danio rerio: 10000 mg/l (Lit.).
EC50, (48h), Daphnia magna: 35 mg/l (IUCLID).
IC50, (72h), Desmodemus subspicatus: 3,8 - 10 mg/l (IUCLID).
Phosphoric acid, CAS: 7664-38-2
LC50, (96h), fish: 3-3,5 mg/l (Lit.).
LC0, fish: 100-1000 mg/l (Lit.).
2-Butoxyethanol, CAS: 111-76-2
LC50, (96h), Oncorhynchus mykiss: 1474 mg/l (OECD 203).
EC50, (48h), Daphnia magna: 1550 mg/l (OECD 202).
EC50, (72h), Pseudokirchneriella subcapitata: 1840 mg/l (OECD 201).
EC0, (16h), Pseudomonas putida: 700 mg/l (DIN 38412).
NOEL, (21d), Daphnia magna: 100 mg/l (OECD 211).
NOEL, (21d), Brachidanio rerio: > 100 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	The product is an acid. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
Biological degradability	The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment.

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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.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 070701*

Contaminated packaging

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

Waste no. (recommended) 150110*

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; NO INDEPENDENT BURN MAINTAINS IN ACCORDANCE WITH. ADR 2.2.3.1.1. REM. 1.

Inland navigation (ADN) NO DANGEROUS GOODS; NO INDEPENDENT BURN MAINTAINS IN ACCORDANCE WITH. ADR 2.2.3.1.1. REM. 1.

Marine transport in accordance with IMDG NO DANGEROUS GOODS; NO INDEPENDENT BURN MAINTAINED IN ACCORDANCE WITH IMDG 2.3.1.3.

Air transport in accordance with IATA NO DANGEROUS GOODS; NO INDEPENDENT BURN MAINTAINED IN ACCORDANCE WITH IATA 3.3.1.3.

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); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830

TRANSPORT-REGULATIONS DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).

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

- Observe employment restrictions for people Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (1999/13/CE) 12 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information**16.1 Hazard statements
(SECTION 03)**

H318 Causes serious eye damage.
 H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
 H336 May cause drowsiness or dizziness.
 H319 Causes serious eye irritation.
 H225 Highly flammable liquid and vapour.
 H411 Toxic to aquatic life with long lasting effects.
 H302 Harmful if swallowed.
 H361d Suspected of damaging the unborn child.
 H351 Suspected of causing cancer.

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
 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
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 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**Customs Tariff**

not determined

Classification procedure

Carc. 2: H351 Suspected of causing cancer. (Calculation method)
 Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Expert judgement)
 Eye Dam. 1: H318 Causes serious eye damage. ()
 Repr. 2: H361d Suspected of damaging the unborn child. ()
 Skin Irrit. 2: H315 Causes skin irritation. ()

Modified position

SECTION 16 been added: GENERAL REVIEW [CLP; REACH-(EU) 2015/830]

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