

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 Silber Hochglanzbad

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
Phone (+49) 02224-1800-0
Fax (+49) 02224-1800-90
Homepage www.silbo.de
E-mail info@silbo.de

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

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

Carc. 2: H351 Suspected of causing cancer.
Eye Dam. 1: H318 Causes serious eye damage.
Repr. 2: H361d Suspected of damaging the unborn child.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.
Skin Sens. 1: H317 May cause an allergic skin reaction.
Skin Irrit. 2: H315 Causes skin irritation.

2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

Xn, carcinogen category 3 - R 40: Limited evidence of a carcinogenic effect.
Xi, Irritant - R 41: Risk of serious damage to eyes.
Sensitizing. - R 43: May cause sensitisation by skin contact.
Xn, toxic for reproduction category 3 - R 63: Possible risk of harm to the unborn child.
N, Dangerous for the environment - R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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2.2 Label elements

The product is classified and required to be labelled in accordance with EC-Directives

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms



Signal word

DANGER

Contains:

Thiourea

Dodecylmercaptane

Fattyalcohol polyglycoether, C10-14 (6EO)

Hazard statements

H351 Suspected of causing cancer.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H315 Causes skin irritation.

Precautionary statements

P201 Obtain special instructions before use.

P261 Avoid breathing vapours/spray.

P280 Wear protective gloves/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 - <15% non-ionic surfactants

fragrances CINNAMYLALCOHOL

fragrances BENZYL SALICYLATE

fragrances LINALOOL

fragrances HEXYL CINNAMAL

fragrances CITRONELLOL

fragrances BUTYLPHENYL METHYLPROPIONAL

fragrances GERANIOL

fragrances

2.3 Other hazards

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	Fattyalcohol polyglycoether, C10-14 (6EO)
	CAS: 69227-22-1
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302
	EEC: Xn, R 41-22
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
	EEC: Xn-N, R 22-40-51/53-63
1 - <10	Phosphoric acid
	CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6
	GHS/CLP: Skin Corr. 1B: H314
	EEC: C, R 34
1 - <15	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, ECB-Nr.: 01-2119457558-25-XXXX
	GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
	EEC: F-Xi, R 11-36-67
1 - <5	Alcohol ethoxylated
	CAS: 68439-46-3, EINECS/ELINCS: Polymer
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302
	EEC: Xn, R 41-22
1 - <2,5	Dodecylmercaptane
	CAS: 112-55-0, EINECS/ELINCS: 203-984-1, ECB-Nr.: 01-2119491318-31-XXXX
	GHS/CLP: Skin Corr. 1C: H314 - Skin Sens. 1: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 10
	EEC: C-N, R 34-43-50/53

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 and R-phrases: see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Change soaked clothing.

Inhalation

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

Skin contact

In case of contact with skin wash off immediately 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

Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed

Nausea, vomiting.
Headache
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 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.
Nitrogen oxides (NOx).

5.3 Advice for firefighters

Use self-contained breathing apparatus.
Wear full protective suit.

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

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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with 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.
Avoid spilling or spraying in enclosed areas.

Do not eat, drink or smoke when using this product.
Wash hands before breaks and after work.
Use barrier skin cream.

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 together with food.
Do not store with alkalis.
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)**

Range [%]	Substance
1 - <15	Propan-2-ol
	CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, ECB-Nr.: 01-2119457558-25-XXXX
	Long-term exposure: 400 ppm, 999 mg/m ³
	Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
1 - <10	Phosphoric acid
	CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6
	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)

Range [%]	Substance / EC LIMIT VALUES
1 - <10	Phosphoric acid
	CAS: 7664-38-2, EINECS/ELINCS: 231-633-2, EU-INDEX: 015-011-00-6
	Eight hours: 1 mg/m ³
	Short-term (15-minute): 2 mg/m ³

DNEL

Range [%]	Substance
1 - <15	Propan-2-ol, CAS: 67-63-0
	Industrial, dermal, Long-term - systemic effects: 888 mg/kg.
	Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ .
	general population, oral, Long-term - systemic effects: 26 mg/kg.
	general population, inhalative, Long-term - systemic effects: 89 mg/m ³ .
	general population, dermal, Long-term - systemic effects: 319 mg/kg.

PNEC

Range [%]	Substance
1 - <15	Propan-2-ol, CAS: 67-63-0
	soil, 28 mg/kg.
	sediment (seawater), 552 mg/kg.
	sediment (freshwater), 552 mg/kg.
	seawater, 140,9 mg/l.
	freshwater, 140,9 mg/l.

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8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Tightly fitting goggles.
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Butyl rubber, >480 min (EN 374). In splash contact Nitrile rubber, >480 min (EN 374).
Skin protection	Acid-resistant protective clothing.
Other	Avoid contact with eyes and skin. It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions.
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	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**

Form	liquid
Color	colourless
Odor	characteristic
Odour threshold	not determined
pH-value	1,15 - 1,45
pH-value [1%]	2,5
Boiling point [°C]	not determined
Flash point [°C]	>65
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	1,03
Bulk density [kg/m³]	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]	<0
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

No information available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No dangerous reactions known if used as directed.

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10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with alkalis (lyes).

Violent reaction under influence of oxidising agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

See SECTION 7

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**

Range [%]	Substance
1 - <5	Alcohol ethoxylated, CAS: 68439-46-3 LD50, oral, Rat: > 300 - 2000 mg/kg.
5 - <10	Fattyalcohol polyglycoether, C10-14 (6EO), CAS: 69227-22-1 LD50, oral, 1800 mg/kg.
1 - <10	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.).
5 - <10	Thiourea, CAS: 62-56-6 LD50, dermal, Rabbit: > 2000 mg/kg (Lit.). LD50, oral, Rat: 1750 mg/kg (Lit.).
1 - <15	Propan-2-ol, CAS: 67-63-0 LD50, dermal, Rabbit: > 2000 mg/kg. LD50, oral, Rat: 4570 mg/kg. LC50, inhalative, Rat: 30 mg/l 4h.
1 - <2,5	Dodecylmercaptane, CAS: 112-55-0 LD50, dermal, Rat: > 5000 mg/kg (OECD 402). LD50, oral, Rat: > 5000 mg/kg (OECD 401). LC50, inhalative, Rat: > 3,1 mg/l/4,5h (OECD 403). NOAEL, Rat: 0,01 mg/l/28d (OECD 412). NOAEL, Rat: 0,06 mg/l (OECD 414).

Serious eye damage/irritation

Risk of serious damage to eyes.

Skin corrosion/irritationIn-vitro-Test "Corrosive" negative.
Irritant**Respiratory or skin sensitisation**

Sensitizing.

Specific target organ toxicity — single exposure

not determined

Specific target organ toxicity — repeated exposure

not determined

Mutagenicity

not determined

Reproduction toxicity

Repr. 2

Carcinogenicity

Carc. 2

General remarksAnalogous to product with a similar composition.
The product was classified on the basis of the calculation procedure of the preparation directive.

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SECTION 12: Ecological information**12.1 Toxicity**

Range [%]	Substance
5 - <10	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).
1 - <10	Phosphoric acid, CAS: 7664-38-2
	LC50, (96h), fish: 138 mg/l (Lit.).
5 - <10	Thiourea, CAS: 62-56-6
	LC50, (96h), Danio rerio: 10000 mg/l (Lit.).
	EC50, (48h), Daphnia magna: 35 mg/l (IUCLID).
	IC50, (72h), Desmodesmus subspicatus: 3,8 - 10 mg/l (IUCLID).
1 - <15	Propan-2-ol, CAS: 67-63-0
	LC50, (48h), Leuciscus idus: > 100 mg/l.
	EC50, (72h), Scenedesmus subspicatus: > 100 mg/l.
	EC50, (48h), Daphnia magna: > 100 mg/l.
1 - <2,5	Dodecylmercaptane, CAS: 112-55-0
	LC50, (96h), Oncorhynchus mykiss: > 100 mg/l.
	EC50, (72h), Pseudokirchneriella subcapitata: 0,0145 mg/l (OECD 201).
	EC50, (48h), Daphnia magna: 1 - 10 mg/l (OECD 202).
	NOEC, (48h), Daphnia magna: 0,14 mg/l (OECD 202).

12.2 Persistence and degradability**Behaviour in environment compartments**

not determined

Behaviour in sewage plant

Obtain approval of the relevant authorities before discharging into sewage treatment plants. 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

Harmful effect due to pH shift.

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment or into the drainage.

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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.
For recycling, consult manufacturer.

Waste no. (recommended)

070701*

Contaminated packaging

Untaminated 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

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (dodecane-1-thiol) 9 III

- Classification Code

M6

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (E)

Inland navigation (ADN)

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (dodecane-1-thiol) 9 III

- Classification Code

M6

- Label



Marine transport in accordance with IMDG

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (dodecane-1-thiol) 9 III MARINE
POLLUTANT

- EMS

F-A, S-F

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (dodecane-1-thiol) 9 III

- Label



14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

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14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

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

- Observe employment restrictions for young people.

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

- VOC (1999/13/CE)

ca. 3 %

15.2 Chemical safety assessment

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

SECTION 16: Other information**16.1 R-phrases (SECTION 3)**

R 22: Harmful if swallowed.

R 41: Risk of serious damage to eyes.

R 40: Limited evidence of a carcinogenic effect.

R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 63: Possible risk of harm to the unborn child.

R 34: Causes burns.

R 11: Highly flammable.

R 36: Irritating to eyes.

R 67: Vapours may cause drowsiness and dizziness.

R 43: May cause sensitisation by skin contact.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

16.2 Hazard statements (SECTION 3)

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

H361d Suspected of damaging the unborn child.

H351 Suspected of causing cancer.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

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16.3 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

16.4 Other information**Customs Tariff**

not determined

Classification procedure

Carc. 2: H351 Suspected of causing cancer. (Calculation method)
 Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)
 Repr. 2: H361d Suspected of damaging the unborn child. (Calculation method)
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)
 Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Expert judgement)

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Modified position

SECTION 2 been added: Ausrufezeichen

SECTION 2 been added: R 43: May cause sensitisation by skin contact.

SECTION 2 been added: H315 Causes skin irritation.

SECTION 2 been added: P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

SECTION 2 deleted: Classification according to conversion table Annex VII 1272/2008/EC

SECTION 2 been added: H317 May cause an allergic skin reaction.

SECTION 2 been added: Skin Sens. 1

SECTION 2 been added: P261 Avoid breathing vapours/spray.

SECTION 2 been added: P280 Wear protective gloves/eye protection/face protection.

SECTION 2 been added: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 2 been added: P310 Immediately call a POISON CENTER/doctor.

SECTION 2 been added: P201 Obtain special instructions before use.

SECTION 2 been added: Skin Irrit. 2

SECTION 4 been added: If eye irritation persists: Get medical advice/attention.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 7 been added: Do not eat, drink or smoke when using this product.

SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.

SECTION 11 been added: Risk of serious damage to eyes.

SECTION 11 been added: Sensitizing.

SECTION 11 been added: Irritant

SECTION 16 been added: Calculation method

SECTION 16 been added: Expert judgement

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