

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/28/2015

Reviewed on 04/28/2015

## 1 Identification

- **Product identifier**
- **Trade name:** AlumaCoilKlean or NuGenTec SN8
- **Product number:** ngt-sn8
- **CAS Number:** mixture
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Product description** Aluminum Coil Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
NuGeneration Technologies, LLC (dba NuGenTec)  
1155 Park Avenue, Emeryville, CA 94608  
salesteam@nugentec.com www.nugentec.com  
888-996-8436 or 707-820-4080 for product information
- **Emergency telephone number:**  
PERS Emergency Response: Domestic and Canada - 1-800-633-8253, International 1-801-629-0667

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Repr. 1B                      H360 May damage fertility or the unborn child.



GHS07

Skin Irrit. 2                      H315 Causes skin irritation.  
Eye Irrit. 2A                      H319 Causes serious eye irritation.  
Skin Sens. 1                      H317 May cause an allergic skin reaction.

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

- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
2-methoxyethanol  
d-limonene
- **Hazard statements**  
Causes skin irritation.

(Contd. on page 2)

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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Causes serious eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

Harmful to aquatic life with long lasting effects.

• **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Wear eye protection / face protection.

Avoid release to the environment.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

Wash contaminated clothing before reuse.

If exposed or concerned: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

• **Unknown acute toxicity:**

7.6 percent of the mixture consists of ingredient(s) of unknown toxicity.

• **Classification system:**

• **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

• **HMIS-ratings (scale 0 - 4)**



Health = \*1

Fire = 1

Reactivity = 0

• **Hazard(s) not otherwise classified (HNOC):** None known

### 3 Composition/information on ingredients

CAS: 1300-72-7	Sodium Xylene Sulfonate	2-12%
CAS: 7732-18-5 RTECS: ZC 0110000	water, distilled, conductivity or of similar purity	70-90%

• **Chemical characterization: Substances**

• **CAS No. Description**

1310-58-3 potassium hydroxide

(Contd. on page 3)

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**Trade name: AlumaCoilKlean or NuGenTec SN8**

- **Identification number(s)**
- **EC number:** 215-181-3
- **Index number:** 019-002-00-8
- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous Components:**

CAS: 109-86-4 RTECS: KL 5775000	2-methoxyethanol ⚠ Flam. Liq. 3, H226; ⚠ Repr. 1B, H360; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	5-10%
CAS: 25155-30-0	sodium dodecylbenzenesulphonate, pure ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227	5-10%
CAS: 9016-45-9	Nonylphenoxy poly(ethyleneoxy) ethanol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	2-12%
CAS: 6834-92-0	Disodium Metasilicate ⚠ Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	≤ 2.5%
CAS: 60-00-4 RTECS: AH 4375000	edetic acid ⚠ Eye Irrit. 2A, H319	≤ 2.5%
CAS: 5989-27-5 RTECS: GW 6360000	d-limonene ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317; Flam. Liq. 4, H227	≤ 2.5%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately rinse with water.  
If skin irritation occurs, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.

(Contd. on page 4)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/28/2015

Reviewed on 04/28/2015

**Trade name: AlumaCoilKlean or NuGenTec SN8****· Advice for firefighters****· Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

### 6 Accidental release measures

**· Personal precautions, protective equipment and emergency procedures** Not required.**· Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**· Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

**· Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

**· Handling:****· Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

**· Information about protection against explosions and fires:**

Keep protective respiratory device available.

**· Conditions for safe storage, including any incompatibilities****· Storage:**

**· Requirements to be met by storerooms and receptacles:** No special requirements.

**· Information about storage in one common storage facility:** Not required.

**· Further information about storage conditions:** Keep receptacle tightly sealed.

**· Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

**· Additional information about design of technical systems:** No further data; see section 7.

(Contd. on page 5)

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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• **Control parameters**

• **Components with occupational exposure limits:**

<b>109-86-4 2-methoxyethanol</b>	
PEL	Long-term value: 80 mg/m <sup>3</sup> , 25 ppm Skin
REL	Long-term value: 0.3 mg/m <sup>3</sup> , 0.1 ppm Skin
TLV	Long-term value: 0.3 mg/m <sup>3</sup> , 0.1 ppm Skin; BEI
WEEL	Skin; B
<b>9016-45-9 Nonylphenoxypoly(ethyleneoxy)ethanol</b>	
PEL	Short-term value: 1 mg/m <sup>3</sup> , 0.1 ppm
REL	Short-term value: 1 mg/m <sup>3</sup>
TLV	Short-term value: 1 mg/m <sup>3</sup> , 0.2 ppm
<b>5989-27-5 d-limonene</b>	
TWA	Short-term value: 10 mg/m <sup>3</sup>

• **Ingredients with biological limit values:**

<b>109-86-4 2-methoxyethanol</b>	
BEI	1 mg/g creatinine urine end of shift at end of workweek 2-Methoxyacetic acid

• **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

• **Exposure controls**

• **Personal protective equipment:**

• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

• **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

• **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

• **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several

(Contd. on page 6)

## Safety Data Sheet (SDS)

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Issue date 04/28/2015

Reviewed on 04/28/2015

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substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Goggles recommended during refilling.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Mild
Odor threshold:	Not determined.

· **pH-value @ 20 °C (68 °F):** 12.4

· **Change in condition**

Melting point/Melting range:	360 °C (680 °F)
Boiling point/Boiling range:	100 °C (212 °F)

· **Flash point:** > 100 °C (> 212 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 310 °C (590 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	0.0 Vol %
Upper:	0.0 Vol %

· **Vapor pressure @ 20 °C (68 °F):** 23 hPa (17 mm Hg)

· **Density @ 20 °C (68 °F):** 1.075 g/cm<sup>3</sup> (8.971 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

**Water @ 20 °C (68 °F):** 1120 g/l

· **Partition coefficient (n-octanol/water):** Not determined.

(Contd. on page 7)

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OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/28/2015

Reviewed on 04/28/2015

**Trade name: AlumaCoilKlean or NuGenTec SN8**

- |                            |  |
|----------------------------|--|
| <b>· Viscosity:</b>        |  |
| <b>Dynamic:</b>            | Not determined.                            |
| <b>Kinematic:</b>          | Not determined.                            |
| <b>· Solvent content:</b>  |  |
| <b>Organic solvents:</b>   | 8.5 %                                      |
| <b>Water:</b>              | 72.5 %                                     |
| <b>VOC content:</b>        | 8.5 %                                      |
| <b>Solids content:</b>     | 2.4 %                                      |
| <b>· Other information</b> | No further relevant information available. |

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**109-86-4 2-methoxyethanol**

Oral	LD50	3400 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	1500 mg/l (rat)

**6834-92-0 Disodium Metasilicate**

Oral	LD50	1280 mg/kg (rat)
------	------	------------------

**60-00-4 edetic acid**

Oral	LD50	4500 mg/kg (rat)
------	------	------------------

**5989-27-5 d-limonene**

Oral	LD50	4400 mg/kg (rat) Remarks: Behavioral: Change in motor activity (specific assay). Respiratory disorder Skin and Appendages: Other: Hair
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/96 hours	0.72 mg/l (Pimephales) (OECD Test Guideline 203)

- **Primary irritant effect:**
- **on the skin:** May cause an allergic skin reaction.
- **on the eye:** Causes serious eye irritation.

(Contd. on page 8)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/28/2015

Reviewed on 04/28/2015

**Trade name: AlumaCoilKlean or NuGenTec SN8**

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

5989-27-5 d-limonene	3
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· **NTP (National Toxicology Program)**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

**9016-45-9 Nonylphenoxypoly(ethyleneoxy)ethanol**

EC50	12 mg/l (ALG) (96 HOURS)
	0.148 mg/l (daphnia) (48 hours)

**6834-92-0 Disodium Metasilicate**

EC50	247 mg/l (Water flea)
------	-----------------------

**5989-27-5 d-limonene**

EC50	0.36 mg/l (daphnia) (OECD Test Guideline 202)
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· **Persistence and degradability** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

US

(Contd. on page 9)



## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/28/2015

Reviewed on 04/28/2015

**Trade name: AlumaCoilKlean or NuGenTec SN8**

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |  |                                  |
|--|----------------------------------|
| · <b>UN-Number</b>   |                                  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Non-Regulated Material           |
| · <b>UN proper shipping name</b>   | Not Regulated for Transportation |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Non-Regulated Material           |
| · <b>Transport hazard class(es)</b>  |                                  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |                                  |
| · <b>Class</b>   | Non-Regulated Material           |
| · <b>Packing group</b>   |                                  |
| · <b>DOT, ADR, IMDG, IATA</b>  | Non-Regulated Material           |
| · <b>Environmental hazards:</b>  | Not applicable.                  |
| · <b>Special precautions for user</b>  | Not applicable.                  |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                  |
| · <b>UN "Model Regulation":</b>  | -                                |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

109-86-4 | 2-methoxyethanol

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **California Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

(Contd. on page 10)

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/28/2015

Reviewed on 04/28/2015

**Trade name: AlumaCoilKlean or NuGenTec SN8**

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

109-86-4 2-methoxyethanol

· **Chemicals known to cause developmental toxicity:**

109-86-4 2-methoxyethanol

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

2-methoxyethanol

d-limonene

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May damage fertility or the unborn child.

Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Wear eye protection / face protection.

Avoid release to the environment.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

(Contd. on page 11)

US

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

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If skin irritation or rash occurs: Get medical advice/attention.  
 If eye irritation persists: Get medical advice/attention.  
 If on skin: Wash with plenty of water.  
 Take off contaminated clothing and wash it before reuse.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

• **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

• **State Right to Know**

CAS: 7732-18-5 RTECS: ZC 0110000	water, distilled, conductivity or of similar purity	70-90%
CAS: 109-86-4 RTECS: KL 5775000	2-methoxyethanol ⚠ Flam. Liq. 3, H226; ⚠ Repr. 1B, H360; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	5-10%
CAS: 25155-30-0	sodium dodecylbenzenesulphonate, pure ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; Flam. Liq. 4, H227	5-10%
CAS: 9016-45-9	Nonylphenoxy poly(ethyleneoxy) ethanol ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	2-12%
CAS: 1300-72-7	Sodium Xylene Sulfonate	2-12%
CAS: 6834-92-0	Disodium Metasilicate ⚠ Skin Corr. 1B, H314; ⚠ STOT SE 3, H335	≤ 2.5%

All ingredients are listed.

• **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

• **Date of preparation / last revision** 04/28/2015 / 5

• **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent

(Contd. on page 12)

**Safety Data Sheet (SDS)**

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/28/2015

Reviewed on 04/28/2015

**Trade name: AlumaCoilKlean or NuGenTec SN8**

Flam. Liq. 3: Flammable liquids, Hazard Category 3  
Flam. Liq. 4: Flammable liquids, Hazard Category 4  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Repr. 1B: Reproductive toxicity, Hazard Category 1B  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

• **\* Data compared to the previous version altered.**

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