


1 Identification

- **Product identifier**
- **Trade name:** CHAINLUBE FOR DRY CONDITIONS
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Chain lubricant
Only for proper handling.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MOTOREX AG
Bern-Zürich-Strasse 31, Postfach
CH-4901 Langenthal
Tel. +41 (0)62 919 75 75
www.motorex.com

A1 Accessory Imports
60-62 Burchill St.
Loganholme
4129 QLD
Australia
Phone : 07 3451 1300
- **Further information obtainable from:** msds@motorex.com
- **Emergency telephone number:**
In case of a medical emergency following exposure to a chemical, call Poisons Information Centre Australia 13 11 26

2 Hazard(s) Identification

- **Classification of the substance or mixture**
Flam. Liq. 4 H227 Combustible liquid.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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

GHS07
- **Signal word** Warning
- **Hazard-determining components of labelling:**
Polysulfides, di-tert-dodecyl
- **Hazard statements**
H227 Combustible liquid.
H317 May cause an allergic skin reaction.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from flames and hot surfaces. No smoking.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

EC number: 918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Asp. Tox. 1, H304	10-25%
Polymer	2-Propenoic acid, 2-methyl-, dodecyl ester, polymer with eicosyl 2-methyl-2-propenoate, hexadecyl 2-methyl-2-propenoate, methyl-2-methyl-2-propenoate, octadecyl 2-methyl-2-propenoate, pentadecyl 2-met Serious eye damage/irritation – Category 2A, H319	2.5-7.5%
CAS: 64742-55-8 EINECS: 265-158-7 Index number: 649-468-00-3	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1, H304	≥1-≤7.5%
EC number: 934-956-3	Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics Asp. Tox. 1, H304	2.5-7.5%
EC number: 920-107-4	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics Asp. Tox. 1, H304	1-3%
EC number: 934-954-2	Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12.03% aromatics Asp. Tox. 1, H304	1-3%
CAS: 68425-15-0 EINECS: 270-335-7	Polysulfides, di-tert-dodecyl Skin Sens. 1B, H317	≥1-≤2.5%
CAS: 64743-00-6 EINECS: 265-205-1	Hydrocarbon waxes (petroleum), oxidized Eye Irrit. 2, H319	≥0.25-≤2.5%
CAS: 61789-86-4 EINECS: 263-093-9	Calcium petroleum sulfonate, synthetic, neutral Eye Irrit. 2, H319	1-2.5%

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥30%
optical brighteners	<5%

- **Additional information:**

Note L: The classification as carcinogen does not apply because the mixture (or substance) contains less than 3% dimethyl sulfoxide extract (DMSO), measured according to IP 346.

For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.

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In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Remove residues with soap and water.

Remove contaminated clothing immediately.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact: *Rinse opened eye for several minutes under running water.*

· After swallowing:

Do not induce vomiting. Do not take in resorption stimulating agents.

Consult a physician who will decide on need and method of emptying the stomach.

· 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

· Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture *No further relevant information available.*

· Protective equipment: *No special measures required.*

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions: *Do not allow to enter sewers/ surface or ground water.*

· Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 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.

Prevent formation of aerosols.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Do not spray onto a naked flame or any incandescent material.

· 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:

The recommended storage temperature is (deg.C): ≤50°C

Keep container tightly sealed.

· Storage class: 10

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

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8 Exposure controls and personal protection

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

· **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

64742-55-8 Distillates (petroleum), hydrotreated light paraffinic

Dermal	DNEL / Workers / Local Effects / Long-term	1 mg/kg/8h (worker)
Inhalative	DNEL	2.7-5.4 mg/m ³ /8h (worker)
	DNEL	1.2 mg/m ³ /24h (consumer)

Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics

Dermal	DNEL / Workers / Systemic effects / Long-term	2.9 mg/kg/24h (worker)
Inhalative	DNEL / Workers / Systemic effects / Long-term	16 mg/m ³ (worker)

68425-15-0 Polysulfides, di-tert-dodecyl

Oral	DNEL/general population/Systemic effects/Long-term	1.66 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Systemic effects / Long-term	33.3 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	16.66 mg/kg/24h (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	23.5 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	5.8 mg/m ³ (consumer)

61789-86-4 Calcium petroleum sulfonate, synthetic, neutral

Oral	DNEL/general population/Systemic effects/Long-term	0.8333 mg/kg/24h (consumer)
Dermal	DNEL / Workers / Local Effects / Long-term	1.03 mg/cm ² (worker)
	DNEL / Workers / Systemic effects / Long-term	3.33 mg/kg/24h (worker)
	DNEL/general population/Systemic effects/Long-term	1.667 mg/kg/24h (consumer)
	DNEL/general population/Local effects/Long-term	0.513 mg/cm ² (consumer)
Inhalative	DNEL / Workers / Systemic effects / Long-term	11.75 mg/m ³ (worker)
	DNEL/general population/Systemic effects/Long-term	2.9 mg/m ³ (consumer)

· PNECs

64742-55-8 Distillates (petroleum), hydrotreated light paraffinic

Oral	PNEC / Predators / Secondary poisoning	9.33 mg/kg food (secondary poisoning (predators))
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68425-15-0 Polysulfides, di-tert-dodecyl

Oral	PNEC / Predators / Secondary poisoning	66.7 mg/kg food (secondary poisoning (predators))
	PNEC/Aquatic organisms/Sewage treatment plant/STP	1,000 mg/l (aquatic organisms)

61789-86-4 Calcium petroleum sulfonate, synthetic, neutral

Oral	PNEC / Predators / Secondary poisoning	16.667 mg/kg food (secondary poisoning (predators))
	PNEC / Aquatic organisms / Freshwater	1 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Marine water	1 mg/l (aquatic organisms)
	PNEC/Aquatic organisms/Sewage treatment plant/STP	1,000 mg/l (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (freshwater)	226,000,000 mg/kg (aquatic organisms)
	PNEC / Aquatic organisms / Sediment (marine water)	226,000,000 mg/kg (aquatic organisms)
	PNEC / Terrestrial organism / Soil	271,000 mg/kg (terrestrial organisms)

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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Not necessary if room is well-ventilated.
Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the 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 substances, the resistance of the glove material can not 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 found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

9 Physical and Chemical Properties

- **General Information**
- **Appearance:**
- **Form:** Fluid
- **Colour:** yellow fluorescent
- **Odour:** weak
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**
- **Melting point/freezing point:** Undetermined.
- **Initial boiling point and boiling range:** Undetermined.
- **Setting temperature / range:** 5 °C
- **Flash point:** 82 °C
- **Flammability (solid, gas):** Not applicable.
- **Auto-ignition temperature:** 350 °C (DIN 51794)
- **Decomposition temperature:** Not determined.
- **Explosive properties:** Not determined.
- **Explosion limits:**
- **Lower:** 1 Vol %
- **Upper:** 6 Vol %
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.873 g/cm³ (ASTM D 4052)

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· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	24.86 mm ² /s @ 40 °C (DIN 51562-1)
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **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** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

64742-55-8 Distillates (petroleum), hydrotreated light paraffinic

Oral	LD50	5,000 mg/kg (rat)
	LOAEL	125 mg/kg/24h (rat)
Dermal	LD50	2,000-5,000 mg/kg (rabbit)
	NOAEL	150 mg/kg/24h (mouse)
		30-2,000 mg/kg/24h (rat)
		1,000 mg/kg/24h (rabbit)
Inhalative	LOAEL	100 mg/kg/24h (mouse)
	LC50 / 4h	2.18-5.53 mg/l (rat)
	NOEL	220 mg/m ³ (rat)
	NOAEL	980 mg/m ³ (rat)

Hydrocarbons, C15-C20 n-alkanes, isoalkanes, cycloalkanes, <0.03% aromatics

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	1.72-4.6 mg/l (rat)

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Oral	LD50	5,000-15,000 mg/kg (rat)
	NOAEL	1,000-5,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)
		3,160-5,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	4.951-9.3 mg/l (rat)
	LC50 / 8h	41-4,467 ppm (rat)

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	LC50 / 8h	5 mg/l (rat)
	NOAEL	200 ppm (rat)
	NOAEC	275-10,400 mg/m ³ (rat)
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics		
Oral	LD50	5,000 mg/kg (rat)
	NOAEL	5,000 mg/kg/24h (rat)
Dermal	LD50	3,160 mg/kg (rabbit)
Inhalative	LC50 / 4h	5.266 mg/l (rat)
	NOAEC	10.4 mg/l (rat)
68425-15-0 Polysulfides, di-tert-dodecyl		
Oral	LD50	19,550 mg/kg (rat)
	NOAEL	1,000 mg/kg/24h (rat)
Dermal	LD50	2,000 mg/kg (rat)
Inhalative	LC50 / 4h	15.5 mg/l (rat)
61789-86-4 Calcium petroleum sulfonate, synthetic, neutral		
Oral	LD50	16,000 mg/kg (rat)
Dermal	LD50	4,000-5,000 mg/kg (rabbit)
	NOAEL	1,000 mg/kg/24h (rat)
Inhalative	LC50 / 4h	1.9 mg/l (rat)
	NOAEL	50 mg/m ³ (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

12 Ecological Information

· Toxicity

· Aquatic toxicity:

64742-55-8 Distillates (petroleum), hydrotreated light paraffinic

LL50	10,000 mg/l/96h (aquatic invertebrates)
	100 mg/l/96h (fish)
	>100 mg/l/96h (Pimephales promelas) (OECD 203)
LL50	10,000 mg/l/72h (aquatic invertebrates)
LL50	10,000 mg/l/48h (aquatic invertebrates)
EL50	10,000 mg/l/48h (aquatic invertebrates)
NOEL	>100 mg/l/72h (Pseudokirchnerella subcapitata) (OECD 201)

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

LL50	1,000 mg/l/96h (fish)
LL50	1,000 mg/l/72h (fish)
LL50	1,000 mg/l/48h (fish)
LL50	1,000 mg/l/24h (fish)
LL0	1,000 mg/l/96h (fish)

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EL50	1,000 mg/l/48h (aquatic invertebrates)
EL50	1,000 mg/l/24h (aquatic invertebrates)
EL50	1,000 mg/l/72h (algae / cyanobacteria)
EL0	1,000 mg/l/48h (aquatic invertebrates)
NOELR	1,000 mg/l/28d (fish)
NOELR	1,000 mg/l/21d (aquatic invertebrates)
NOELR	1,000 mg/l/72h (algae / cyanobacteria)

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics

EC50	100 mg/l/3h (microorganisms)
LL50	1.028 mg/l/96h (fish)
LL50	3.193 mg/l/48h (aquatic invertebrates)
LL50	3.193 mg/l/24h (aquatic invertebrates)
EL50	10,000 mg/l/72h (algae / cyanobacteria)
NOELR	1,000 mg/l/28d (fish)
NOELR	1,000 mg/l/21d (aquatic invertebrates)

68425-15-0 Polysulfides, di-tert-dodecyl

LC50	100 mg/l/96h (fish)
LC0	100 mg/l/96h (fish)
LL50	100 mg/l/96h (fish)
NOEC	0.08 mg/l/72h (algae / cyanobacteria)
	10-10,000 mg/l/72h (microorganisms)
NOEC	100 mg/l/96h (fish)
NOEC	0.1 mg/l/48h (aquatic invertebrates)

61789-86-4 Calcium petroleum sulfonate, synthetic, neutral

EC50	1,000 mg/l/96h (algae / cyanobacteria)
EC50	1,000 mg/l/72h (algae / cyanobacteria)
EC0	1,000 mg/l/48h (aquatic invertebrates)
EC50	1,000 mg/l/48h (aquatic invertebrates)
NOEC	1,000 mg/l/72h (algae / cyanobacteria)
NOEC	1,000 mg/l/96h (algae / cyanobacteria)

· **Persistence and degradability** Biodegradability (CEC L-33-A-93):> 75%

· **Behaviour in environmental systems:**

· **Bioaccumulative potential**

64742-55-8 Distillates (petroleum), hydrotreated light paraffinic

Partition coefficient	>3.5 [---] (log Kow) (Bioaccumulation)
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Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Biodegradability	2 % (28d) (Biodegradability) (OECD 301 F)
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Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cycloalkanes, <12:03% aromatics

Biodegradability	74 % (28d) (Biodegradability) (OECD 306)
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68425-15-0 Polysulfides, di-tert-dodecyl

Partition coefficient	6.2-12.45 [---] (log Kow) (Bioaccumulation)
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· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (according to Appendix 1 AwSV): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Contact waste processors for recycling information.
Return product and/or partially emptied container in original packaging to the point of sale or hand it over to a collection point for special waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|---|
| · UN-Number | |
| · ADG, ADN, IMDG, IATA | Not classified as hazardous for transport |
| · UN proper shipping name | |
| · ADG, ADN, IMDG, IATA | Not classified as hazardous for transport |
| · Transport hazard class(es) | |
| · ADG, ADN, IMDG, IATA | |
| · Class | Not classified as hazardous for transport |
| · Packing group | |
| · ADG, IMDG, IATA | Not classified as hazardous for transport |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not classified as hazardous for transport |

15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

26401-35-4	DTDA
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic
68425-15-0	Polysulfides, di-tert-dodecyl
64743-00-6	Hydrocarbon waxes (petroleum), oxidized
61789-86-4	Calcium petroleum sulfonate, synthetic, neutral
7128-64-5	2,5-thiophenediylbis(5-tert-butyl-1,3-benzoxazole)
61789-86-4	Calcium petroleum sulfonate, synthetic, neutral

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· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **National chemical directories**

Components listed or exempted from listing:

TSCA (USA)

DSL/NDSL (CDN)

AICS (Aus)

IECSC (CN)

EINECS/ELINCS/NLP (EU)

ECL/KECI (KOR)

PICCS (RP)

· **Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The classification of the mixture was carried out by calculation in accordance with the rules laid down in Annex I of Regulation (EC) No 1272/2008.

No special training instructions to ensure protection of human health and environment are required.

· **purity requirement**

· **Relevant phrases**

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

· **Department issuing SDS:** Abteilung Produktsicherheit

· **Contact:**

· **Abbreviations and acronyms:**

Flam. Liq. 4: Flammable liquids – Category 4

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B

Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

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