

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

1.1 Product identifier

Trade name: **COPPER PASTE**

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

No further relevant information available.

Application of the substance / the mixture

Grease

Only for proper handling.

1.3 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

Further information obtainable from: msds@motorex.com

1.4 Emergency telephone number:

In case of a medical emergency following exposure to a chemical, the public should call NHS Direct in England or Wales 0845 46 47 or NHS 24 in Scotland 08454 24 24 24 (UK only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS09

Signal word Warning

Hazard-determining components of labelling:

copper

Hazard statements

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P273 Avoid release to the environment.

P391 Collect spillage.

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

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

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· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

| | | |
|--|--|----------|
| CAS: 7440-50-8 EINECS: 231-159-6 Reg.nr.: 01-2119480154-42 | copper Acute Tox. 3, H331; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319 | 2.5-7.5% |
| CAS: 7440-66-6 EINECS: 231-175-3 Index number: 030-002-00-7 Reg.nr.: 01-2119467174-37 | zinc powder -zinc dust (stabilized) Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) | ≥2.5-≤3% |
| CAS: 38900-29-7 EINECS: 254-184-4 Reg.nr.: 01-2120119814-57 | Dilithium azelate Acute Tox. 4, H302 | ≥1-≤3% |

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

aliphatic hydrocarbons

<5%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Remove residues with soap and water.· **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.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

· 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

· 5.3 Advice for firefighters

· **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

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

· 6.2 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.

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

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- **6.3 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.
- **6.4 Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 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:**
The recommended storage temperature is (deg.C): $\leq 50^{\circ}\text{C}$
Store containers closed and protect against rain, dust, heat and other atmospheric influences.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

7440-50-8 copper

| | |
|-----|---|
| WEL | Short-term value: 2** mg/m ³ Long-term value: 0.2* 1** mg/m ³ *fume **dusts and mists (as Cu) |
|-----|---|

· **DNELs**

7440-50-8 copper

| | | |
|------------|--|---------------------------------|
| Dermal | DNEL / Workers / Systemic effects / Long-term | 137 mg/kg/24h (worker) |
| | DNEL/Workers/Systemic effects/acute-short term | 273 mg/kg/24h (worker) |
| | DNEL/general population/Systemic effects/Long-term | 137 mg/kg/24h (consumer) |
| | DNEL/general pop/Systemic effects/acute-short term | 273 mg/kg/24h (consumer) |
| Inhalative | DNEL/Workers/Systemic effects/acute-short term | 20 mg/m ³ (worker) |
| | DNEL/general pop/Systemic effects/acute-short term | 20 mg/m ³ (consumer) |

7440-66-6 zinc powder -zinc dust (stabilized)

| | | |
|------------|--|----------------------------------|
| Oral | DNEL/general population/Systemic effects/Long-term | 0.83 mg/kg/24h (consumer) |
| Dermal | DNEL / Workers / Systemic effects / Long-term | 83 mg/kg/24h (worker) |
| | DNEL/general population/Systemic effects/Long-term | 83 mg/kg/24h (consumer) |
| Inhalative | DNEL / Workers / Systemic effects / Long-term | 5 mg/m ³ (worker) |
| | DNEL/general population/Systemic effects/Long-term | 2.5 mg/m ³ (consumer) |

38900-29-7 Dilithium azelate

| | | |
|--------|---|-------------------------------------|
| Dermal | DNEL/general population/Local effects/Long-term | 0.023 mg/cm ² (consumer) |
|--------|---|-------------------------------------|

· **PNECs**

7440-50-8 copper

| | |
|---------------------------------------|---------------------------------|
| PNEC / Aquatic organisms / Freshwater | 0.0078 mg/l (aquatic organisms) |
|---------------------------------------|---------------------------------|

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| | |
|--|------------------------------------|
| PNEC / Aquatic organisms / Marine water | 0.0052 mg/l (aquatic organisms) |
| PNEC/Aquatic organisms/Sewage treatment plant/STP | 0.23 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (freshwater) | 87 mg/kg (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (marine water) | 676 mg/kg (aquatic organisms) |
| PNEC / Terrestrial organism / Soil | 65 mg/kg (terrestrial organisms) |
| 7440-66-6 zinc powder -zinc dust (stabilized) | |
| PNEC / Aquatic organisms / Freshwater | 0.0206 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Marine water | 0.0061 mg/l (aquatic organisms) |
| PNEC/Aquatic organisms/Sewage treatment plant/STP | 0.1 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (freshwater) | 117.8 mg/kg (aquatic organisms) |
| PNEC / Aquatic organisms / Sediment (marine water) | 56.5 mg/kg (aquatic organisms) |
| PNEC / Terrestrial organism / Soil | 35.6 mg/kg (terrestrial organisms) |
| 38900-29-7 Dilithium azelate | |
| PNEC / Aquatic organisms / Freshwater | 0.023 mg/l (aquatic organisms) |
| PNEC / Aquatic organisms / Marine water | 0.0023 mg/l (aquatic organisms) |
| PNEC/Aquatic org/intermittent releases(freshwater) | 0.23 mg/l (aquatic organisms) |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· **Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device in case of insufficient ventilation.

Respiratory protection if formation of aerosol or mist: use mask with filter type A2, A2/P2 or ABEK.

· **Hand protection**

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/face protection** Goggles recommended during refilling

· **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Physical state**

Fluid

· **Colour:**

Gold coloured

· **Odour:**

Characteristic

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| | |
|---|--------------------------------------|
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Undetermined. |
| · Boiling point or initial boiling point and boiling range | 1 °C (DIN EN ISO 3405) |
| · Flammability | Not applicable. |
| · Lower and upper explosion limit | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Flash point: | >250 °C |
| · Decomposition temperature: | Not determined. |
| · pH | Not determined. |
| · Viscosity: | NLGI 2 @ 25 °C |
| · Kinematic viscosity | Not determined. |
| · Consistency | |
| · Dynamic: | NLGI 2 @ 25 °C |
| · Solubility | |
| · water: | Not miscible or difficult to mix. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Heat Capacity | |
| · Vapour pressure: | Not determined. |
| · Density and/or relative density | |
| · Density at 20 °C: | 0.95 g/cm ³ (ASTM D 4052) |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |

| | |
|--|---|
| · 9.2 Other information | |
| · Appearance: | |
| · Form: | Pasty |
| · Important information on protection of health and environment, and on safety. | |
| · Explosive properties: | Product does not present an explosion hazard. |
| · Solvent separation test: | |
| · VOC (EC) | 0.00 % |
| · Change in condition | |
| · Drip point: | 280 °C |
| · Evaporation rate | Not determined. |

| | |
|--|------|
| · Information with regard to physical hazard classes | |
| · Explosives | Void |
| · Flammable gases | Void |
| · Aerosols | Void |
| · Oxidising gases | Void |
| · Gases under pressure | Void |
| · Flammable liquids | Void |
| · Flammable solids | Void |
| · Self-reactive substances and mixtures | Void |
| · Pyrophoric liquids | Void |
| · Pyrophoric solids | Void |
| · Self-heating substances and mixtures | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |

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· **Desensitised explosives**

Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

7440-50-8 copper

| | | |
|-----------------|-----------|-----------------------------|
| Oral | LD50 | 300-2,500 mg/kg (rat) |
| | NOAEL | 1,000 ppm (mouse) |
| | | 1,000 ppm (rat) |
| | LOAEL | 2,000 ppm (mouse) |
| 2,000 ppm (rat) | | |
| Dermal | LD50 | 2,000 mg/kg (rat) |
| Inhalative | LC50 / 4h | 5.11 mg/l (rat) |
| | NOAEL | 2 mg/m ³ (rat) |
| | LOEL | 0.2 mg/m ³ (rat) |

7440-66-6 zinc powder -zinc dust (stabilized)

| | | |
|-------|----------------------|-----------------------|
| Oral | LD50 | 2,000 mg/kg (rat) |
| | NOEL | 3,000 ppm (mouse) |
| | | 3,000 ppm (rat) |
| | NOAEL | 31.52 mg/kg/24h (rat) |
| LOAEL | 53.8 mg/kg/24h (rat) | |
| | LOEL | 30,000 ppm (rat) |

38900-29-7 Dilithium azelate

| | | |
|--------|-------|---------------------------------|
| Oral | LD50 | 300 mg/kg (rat) |
| Dermal | NOAEL | 111.25-1,089.75 mg/kg/24h (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** Based on available data, the classification criteria are not met.
- **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.

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· 11.2 Information on other hazards**· Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**· 12.1 Toxicity****· Aquatic toxicity:****7440-50-8 copper**

| | |
|------|---|
| LC50 | 0.0028-9.15 mg/l/96h (fish) |
| LC50 | 0.0005-0.302 mg/l/48h (aquatic invertebrates) |
| | 0.0059-0.0302 mg/l/48h (fish) |
| EC50 | 0.012-0.0238 mg/l/24h (aquatic invertebrates) |
| EC50 | 0.005-0.042 mg/l/96h (aquatic invertebrates) |
| | 0.047 mg/l/96h (algae / cyanobacteria) |
| EC50 | 0.0165-0.987 mg/l/72h (algae / cyanobacteria) |
| EC50 | 0.001-1.213 mg/l/48h (aquatic invertebrates) |
| NOEC | 0.4-1 g/kg/21d (terrestrial arthropods) |
| | 0.0234-0.0449 g/kg/21d (sediment) |
| NOEC | 0.0279-1 g/kg/28d (terrestrial arthropods) |
| | 0.042 g/kg/28d (terrestrial plants) |
| | 0.0183-0.5809 g/kg/28d (sediment) |
| NOEC | 0.0122-0.0292 mg/l/96h (fish) |
| | 3.818 mg/l/96h (microorganisms) |
| NOEC | 3.563-3.8 mg/l/48h (microorganisms) |

7440-66-6 zinc powder -zinc dust (stabilized)

| | |
|------|--|
| LC50 | 0.112-2.92 mg/l/96h (fish) |
| LC50 | 0.095-1.22 mg/l/48h (aquatic invertebrates) |
| EC50 | 5.2 mg/l/3h (microorganisms) |
| EC50 | 0.22-22 mg/l/24h (aquatic invertebrates) |
| EC50 | 0.155-2.909 mg/l/48h (aquatic invertebrates) |
| NOEC | 0.085-0.553 g/kg/21d (terrestr. macroorganisms (- arthropods)) |
| NOEC | 0.1-1 g/kg/28d (terrestr. macroorganisms (- arthropods)) |
| NOEC | 0.02 mg/l/96h (algae / cyanobacteria) |

38900-29-7 Dilithium azelate

| | |
|------|--|
| LC50 | 100 mg/l/96h (fish) |
| EC10 | 3.3-100 mg/l/72h (algae / cyanobacteria) |
| EC50 | 8.2-100 mg/l/72h (algae / cyanobacteria) |
| EC50 | 100 mg/l/48h (aquatic invertebrates) |
| NOEC | 1-100 mg/l/72h (algae / cyanobacteria) |

· 12.2 Persistence and degradability No further relevant information available.**· 12.3 Bioaccumulative potential** No further relevant information available.**· 12.4 Mobility in soil** No further relevant information available.**· 12.5 Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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- **12.7 Other adverse effects**

- **Remark:**

Very toxic for fish

Toxic for fish

- **Additional ecological information:**

- **General notes:**

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

Water hazard class 2 (according to Appendix 1 AWSV): significantly hazardous to water

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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Toxic for aquatic organisms

SECTION 13: Disposal considerations

- **13.1 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.

SECTION 14: Transport information

- **14.1 UN number or ID number**

- **ADR/RID/ADN, IMDG, IATA**

UN3077

- **14.2 UN proper shipping name**

- **ADR/RID/ADN**

3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc powder -zinc dust (stabilized))

- **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (copper, zinc powder -zinc dust (stabilized))

- **14.3 Transport hazard class(es)**

- **ADR/RID/ADN**



- **Class**

9 (M7) Miscellaneous dangerous substances and articles.

- **Label**

9

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· **IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles.
 · **Label** 9

· **14.4 Packing group**
 · **ADR/RID/ADN, IMDG, IATA** III

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances: copper
 · **Marine pollutant:** No
 Symbol (fish and tree)
 · **Special marking (ADR/RID/ADN):** Symbol (fish and tree)
 · **Special marking (IATA):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles.
 · **Hazard identification number (Kemler code):** 90
 · **EMS Number:** F-A,S-F
 · **Stowage Category** A
 · **Stowage Code** SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**

· **ADR/RID/ADN**
 · **Limited quantities (LQ)** 5 kg
 · **Excepted quantities (EQ)** Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml
 · **Transport category** 3
 · **Tunnel restriction code** (-)

· **IMDG**
 · **Limited quantities (LQ)** 5 kg
 · **Excepted quantities (EQ)** Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (COPPER, ZINC POWDER -ZINC DUST (STABILIZED)), 9, III

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SECTION 15: Regulatory information

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

· **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients is listed.

· **Regulated poisons**

None of the ingredients is listed.

· **Reportable explosives precursors**

None of the ingredients is listed.

· **Reportable poisons**

None of the ingredients is listed.

· **Directive 2012/18/EU**

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

· **Seveso category E1** Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

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

SECTION 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**

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Department issuing SDS:** Abteilung Produktsicherheit

· **Abbreviations and acronyms:**

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

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

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

Annex: Exposure scenario 1

· **Short title of the exposure scenario** Industrial use of lubricants and greases in open systems

· **Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· **Product category** PC24 Lubricants, greases, release products

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- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC7 Industrial spraying
 - PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 - PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 - PROC10 Roller application or brushing
 - PROC13 Treatment of articles by dipping and pouring
- **Environmental release category**
 - ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- **Description of the activities / processes covered in the Exposure Scenario**
 - See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
 - Duration and frequency 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting consumer exposure** Not required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures**
 - Disposal must be made according to official regulations.
 - Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

Annex: Exposure scenario 2

- **Short title of the exposure scenario** Professional use of lubricants and greases in open systems
- **Sector of Use**
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Product category** PC24 Lubricants, greases, release products
- **Process category**
 - PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
 - PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
 - PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 - PROC10 Roller application or brushing

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PROC11 Non industrial spraying

PROC13 Treatment of articles by dipping and pouring

- **Environmental release category**

- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 - ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

- **Description of the activities / processes covered in the Exposure Scenario**

- See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use**

- **Duration and frequency** 5 workdays/week.

- **Physical parameters**

- **Physical state** Fluid

- **Concentration of the substance in the mixture** The substance is main component.

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure** No special measures required.

- **Other operational conditions affecting consumer exposure** Not required.

- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

- **Risk management measures**

- **Worker protection**

- **Organisational protective measures** No special measures required.

- **Technical protective measures** No special measures required.

- **Personal protective measures** No special measures required.

- **Measures for consumer protection** No special measures required.

- **Environmental protection measures**

- **Air** No special measures required.

- **Water** No special measures required.

- **Disposal measures**

- Disposal must be made according to official regulations.

- Ensure that waste is collected and contained.

- **Disposal procedures** Dispose of product residues with household waste.

- **Waste type** Partially emptied and uncleaned packaging

- **Exposure estimation**

- **Consumer** Not relevant for this Exposure Scenario.

- **Guidance for downstream users** No further relevant information available.

Annex: Exposure scenario 3

- **Short title of the exposure scenario** Private use of lubricants and greases in open systems

- **Sector of Use** SU21 Consumer uses: Private households / general public / consumers

- **Product category** PC24 Lubricants, greases, release products

- **Environmental release category**

- ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
 - ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

- **Description of the activities / processes covered in the Exposure Scenario**

- See section 1 of the annex to the Safety Data Sheet.

- **Conditions of use**

- **Duration and frequency** 5 workdays/week.

- **Physical parameters**

- **Physical state** Fluid

- **Concentration of the substance in the mixture** The substance is main component.

- **Other operational conditions**

- **Other operational conditions affecting environmental exposure** No special measures required.

- **Other operational conditions affecting consumer exposure** Not required.

- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

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- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures** No special measures required.
- **Personal protective measures** No special measures required.
- **Measures for consumer protection** No special measures required.
- **Environmental protection measures**
- **Air** No special measures required.
- **Water** No special measures required.
- **Disposal measures**
Disposal must be made according to official regulations.
Ensure that waste is collected and contained.
- **Disposal procedures** Dispose of product residues with household waste.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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