

SAFETY DATA SHEET

CONTACT CLEANER LUBRICANT Aerosol

According to Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, December 2011

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

1.1. Product identifier

Product name CONTACT CLEANER LUBRICANT Aerosol

Product No. EML-a, EEML200F, EEML400D, ZE

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

Application Lubricant.

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier ELECTROLUBE. A division of HK WENTWORTH LTD
 H K WENTWORTH PTY LIMITED
 P.O. BOX 339
 BROOKVALE, NSW 2100
 AUSTRALIA
 TEL: 02 9938 1566
 FAX: 02 9938 1467
 02 9938 1566
 02 9938 1467
 info@hkw.co.uk

1.4. Emergency telephone number

Emergency telephone Tel: 029938 1566 between 8.30am and 5.00pm EST

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

EC No 1272/2008

Physical hazards Aerosol 1 - H222, H229

Health hazards STOT SE 3 - H336

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word

Danger

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Hazard statements

H222 Extremely flammable aerosol.
 H229 Pressurised container: may burst if heated
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P261 Avoid breathing spray.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
 P391 Collect spillage.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
 P501 Dispose of contents/container in accordance with national regulations.
 P102 Keep out of reach of children.

Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

PENTANE, PROPAN-2-OL

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | |
|--|--|
| PENTANE | 60-100% |
| CAS number: 109-66-0 | EC number: 203-692-4 |
| | REACH registration number: 01-2119459286-30 |
| Classification Flam. Liq. 2 - H225 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411 | Classification (67/548/EEC or 1999/45/EC) F+;R12 Xn;R65 R66 R67 N;R51/53 |
| CARBON DIOXIDE | 1-5% |
| CAS number: 124-38-9 | EC number: 204-696-9 |
| Classification Not classified. | Classification (67/548/EEC or 1999/45/EC) - |

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| | |
|--|--|
| PROPAN-2-OL | 1-5% |
| CAS number: 67-63-0 | EC number: 200-661-7 |
| | REACH registration number: 01-2119457558-25-XXXX |
| Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336 | Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R67 |
| DIPHENYLAMINE | <1% |
| CAS number: 122-39-4 | EC number: 204-539-4 |
| M factor (Acute) = 1 | M factor (Chronic) = 1 |
| Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | Classification (67/548/EEC or 1999/45/EC) T;R23/24/25 R33 N;R50/53 |

The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16.

Composition comments No classified ingredients, or those having occupational exposure limits, present above the levels of disclosure.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately. Get medical attention. |
| Ingestion | Rinse mouth thoroughly with water. |
| Skin Contact | Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. |
| Eye contact | Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. |

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

| | |
|----------------------------|---|
| General information | See Section 11 for additional information on health hazards. |
| Inhalation | May cause respiratory system irritation. Vapours may cause headache, fatigue, dizziness and nausea. |
| Skin contact | May cause irritation. |

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

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5.2. Special hazards arising from the substance or mixture

Specific hazards The product is flammable. Heating may generate flammable vapours. Containers can burst violently or explode when heated, due to excessive pressure build-up.

Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions If ventilation is inadequate, suitable respiratory protection must be worn. Avoid inhalation of dust and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Provide adequate ventilation.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. See Section 11 for additional information on health hazards. The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store at moderate temperatures in dry, well ventilated area.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

PENTANE

Long-term exposure limit (8-hour TWA): ES-TWA

Short-term exposure limit (15-minute): ES-TWA

CARBON DIOXIDE

Long-term exposure limit (8-hour TWA): 5000 ppm 9000 mg/m³

Short-term exposure limit (15-minute): 30000 ppm 54000 mg/m³

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PROPAN-2-OL

Long-term exposure limit (8-hour TWA): 400 ppm 983 mg/m³

Short-term exposure limit (15-minute): 500 ppm 1230 mg/m³

DIPHENYLAMINE

Long-term exposure limit (8-hour TWA): 10 mg/m³

PENTANE (CAS: 109-66-0)

| | |
|-------------|---|
| DNEL | Industry - Dermal; Long term systemic effects: 432 mg/kg/day Industry - Inhalation; Long term systemic effects: 3000 mg/m ³ Consumer - Oral; Long term systemic effects: 214 mg/kg/day Consumer - Dermal; Long term systemic effects: 214 mg/kg/day Consumer - Inhalation; Long term systemic effects: 643 mg/m ³ |
| PNEC | - water; 0.23 mg/l - Sediment; 1.2 mg/kg - Soil; 0.55 mg/kg - STP; 3.6 mg/l |

PROPAN-2-OL (CAS: 67-63-0)

| | |
|-------------|--|
| DNEL | Industry - Dermal; : 888 mg/kg/day Industry - Inhalation; : 500 mg/m ³ Consumer - Dermal; : 319 mg/kg/day Consumer - Inhalation; : 89 mg/m ³ Consumer - Oral; : 26 mg/kg/day |
| PNEC | - Fresh water; 140.9 mg/l - Marine water; 140.9 mg/l - Sediment; 552 mg/kg - Soil; 28 mg/kg |

8.2. Exposure controls

| | |
|---|--|
| Appropriate engineering controls | Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. |
| Eye/face protection | Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166. |
| Hand protection | Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). To protect hands from chemicals, gloves should comply with European Standard EN374. |
| Other skin and body protection | Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. |
| Hygiene measures | Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Do not smoke in work area. |

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Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn. Combination filter, type A2/P2. Gas and combination filter cartridges should comply with European Standard EN14387.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Aerosol. Liquid. |
| Colour | Colourless. |
| Odour | Characteristic. |
| Melting point | -130°C/-202°F |
| Initial boiling point and range | 36°C/96.8°F @ |
| Flash point | -48°C/-54.4°F CC (Closed cup). |
| Flammability Limit - Lower(%) | : 1.4 |
| Vapour pressure | 5.33 kPa @ 20°C/68°F |
| Relative density | 0.650 @ 20°C/68°F |
| Bulk density | 650 kg/m ³ |
| Solubility Value (g/100g H₂O 20°C) | Immiscible with water. |
| Auto-ignition temperature | 309°C/588.2°F |
| Comments | Information given is applicable to the major ingredient. |

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not available. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

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| | |
|-----------------------------|---|
| Other health effects | There is no evidence that the product can cause cancer. |
| Inhalation | May cause respiratory system irritation. Vapours may cause headache, fatigue, dizziness and nausea. Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. |
| Skin Contact | Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin. Prolonged or repeated exposure may cause severe irritation. |
| Eye contact | Irritating to eyes. |
| Route of entry | Inhalation |

Toxicological information on ingredients.

PENTANE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 4,700.0

Species Rat

ATE oral (mg/kg) 4,700.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 12,800.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 46.5

Species Rat

ATE inhalation (vapours mg/l) 46.5

Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

Inhalation Vapours may cause headache, fatigue, dizziness and nausea.

Eye contact Irritating to eyes.

Acute and chronic health hazards Irritation of eyes and mucous membranes. Narcotic effect. Central nervous system depression.

Route of entry Skin and/or eye contact Skin absorption Ingestion

Target Organs Central nervous system Eyes Skin Respiratory system, lungs

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Medical Symptoms Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). General respiratory distress, unproductive cough. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

Benzamine, N phenyl, reaction product with 2,4,4 trimethylpentene

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

DIPHENYLAMINE

Acute toxicity - oral

ATE oral (mg/kg) 100.0

Acute toxicity - dermal

ATE dermal (mg/kg) 300.0

SECTION 12: Ecological Information

Ecotoxicity Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

Ecological information on ingredients.

PENTANE

Acute toxicity - fish LC50, <: < 10 mg/l,
LC50, 96 hours: 4.26 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, <: < 10 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 10.7 mg/l, Freshwater algae
NOEC, 72 hours: 7.51 mg/l, Freshwater algae

Acute toxicity - microorganisms EC₅₀, >: 100 mg/l,

PROPAN-2-OL

Acute toxicity - fish LC50, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 13299 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 1.000 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC₅₀, >: > 1.000 mg/l, Activated sludge

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Benzamine, N phenyl, reaction product with 2,4,4 trimethylpentene

| | |
|---|---|
| Acute toxicity - fish | LC ₅₀ , 96 hours: > 71 mg/l, Brachydanio rerio (Zebra Fish) LC ₅₀ , 96 hours: mg/l, Fish |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: 51 mg/l, Daphnia magna EC ₅₀ , 48 hours: mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | EC ₅₀ , 72 hours: > 100 mg/l, Scenedesmus subspicatus |

Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

| | |
|---|---|
| Acute toxicity - fish | LC ₅₀ , 96 hours: >100 mg/l, Fish |
| Acute toxicity - aquatic invertebrates | EC ₅₀ , 48 hours: >100 mg/l, Daphnia magna |
| Acute toxicity - aquatic plants | IC ₅₀ , 72 hours: >100 mg/l, Algae |

DIPHENYLAMINE

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

NOEC 0.01 < NOEC ≤ 0.1

Degradability Non-rapidly degradable

M factor (Chronic) 1

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

PENTANE

Persistence and degradability The product is readily biodegradable. The product is degraded completely by photochemical oxidation.

PROPAN-2-OL

Persistence and degradability The product is readily biodegradable.

Benzamine, N phenyl, reaction product with 2,4,4 trimethylpentene

Persistence and degradability The product is not biodegradable.

Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate

Persistence and degradability The product is not readily biodegradable.

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12.3. Bioaccumulative potential

Bioaccumulative Potential No data available on bioaccumulation.

Ecological information on ingredients.

PENTANE

Partition coefficient : 3.39

PROPAN-2-OL

Bioaccumulative Potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Ecological information on ingredients.

PENTANE

Mobility The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

PENTANE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

PROPAN-2-OL

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Ecological information on ingredients.

PENTANE

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. Road 1950

UN No. Sea 1950

CONTACT CLEANER LUBRICANT Aerosol

UN No., Air 1950

UN No. (ADN) 1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS (CONTAINS PENTANE, DIPHENYLAMINE)

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

14.3. Transport hazard class(es)

ADR Class No. 2.1

ADR/RID classification code 5F

ADR/RID label 2.1

IMDG Class 2.1

ICAO Class 2.1

ADN class 2.1

Transport labels



14.4. Packing group

ADR Pack Group None

IMDG packing group None

ADN packing group None

Air Pack Gr. None

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-D, S-U

ADR transport category 2

Tunnel restriction code (D)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

CONTACT CLEANER LUBRICANT Aerosol

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

EU legislation

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

| | |
|----------------------------------|---|
| Issued by | Bethan Massey |
| Revision date | 18/08/2016 |
| Revision | 14 |
| SDS No. | 11552 |
| Hazard statements in full | <p>H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H229 Pressurised container: may burst if heated H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.</p> |
| Danish MAL-Code | 2-1 |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.