# Safety data sheet
**according to UK REACH**

*Printing date 20.11.2024* *Version number 2 (replaces version 1)* *Revision: 30.03.2022*

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

· **1.1 Product identifier**

· **Trade name: MOTIP RADIATOR CLEANER BOTTLE 300 ML**

· **Article number:** 090621
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
· **Sector of Use**
SU21 Consumer uses: Private households / general public / consumers
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
· **Product category**
PC0 Other
Flux agents for casting
· **Process category**
PROC7 Industrial spraying
PROC11 Non industrial spraying
· **Application of the substance / the mixture**
Cleaning agent/ Cleaner
Anticorrosion additive

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
European Aerosols B.V.*
Wolfraamweg 2
NL-8471 XC Wolvega
The Netherlands
Tel : +31 (0)561 694400
e-mail: sds-nl@european-aerosols.com

European Aerosols Ltd.
Wilberforce House
Station Road
London NW4 4QE,
phone no. +44 1223 790332

*Formerly known as Motip Dupli B.V.

· **Further information obtainable from:** Department Product Safety
· **1.4 Emergency telephone number:**
+31 (0)561-694400 (09:00h - 17:00h)

UK: NPIS National Poisons Information Centre Tel: +44 0344 892 0111

## SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

(Contd. on page 2)

# Safety data sheet
## according to UK REACH

Printing date 20.11.2024 Version number 2 (replaces version 1) Revision: 30.03.2022

**Trade name: MOTIP RADIATOR CLEANER BOTTLE 300 ML**

(Contd. of page 1)

· **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**



GHS07

· **Signal word** Warning
· **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
· **Precautionary statements**

| | |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P280 | Wear protective gloves / eye protection / face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P501 | Dispose of contents / container in accordance with regional regulations. |

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

## SECTION 3: Composition/information on ingredients

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

· **Dangerous components:**

| | | |
|---|---|---|
| CAS: 111-76-2<br>EINECS: 203-905-0<br>Index number: 603-014-00-0<br>Reg.nr.: 01-2119475108-36 | 2-butoxyethanol<br>Acute Tox. 3, H331<br>Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 | 5-<10% |

· **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:** In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
· **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.



(Contd. on page 3)

# Safety data sheet
## according to UK REACH



(Contd. of page 2)

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:**
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.
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**
Wear protective equipment. Keep unprotected persons away.
· **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
· **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**
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 measures required.
· **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:** Keep container tightly sealed.
· **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:** | |
|---|---|
| **111-76-2 2-butoxyethanol** | |
| WEL | Short-term value: 246 mg/m³, 50 ppm<br>Long-term value: 123 mg/m³, 25 ppm<br>Sk, BMGV |

| · **DNELs** | | |
|---|---|---|
| **111-76-2 2-butoxyethanol** | | |
| Oral | DNEL | 3.2 mg/kg (Consumer, longterm systemic) |
| | DNEL | 13.4 mg/kg (Consumer, acute systemic) |
| Dermal | DNEL | 75 mg/kg /per day (Worker, longterm systemic) |
| | DNEL | 89 mg/kg /per day (Worker, acute systemic) |
| | DNEL | 38 mg/kg (Consumer, longterm systemic) |

(Contd. on page 4)

# Safety data sheet
## according to UK REACH



**Trade name: MOTIP RADIATOR CLEANER BOTTLE 300 ML**

(Contd. of page 3)

| | | |
|---|---|---|
| | DNEL | 44.5 mg/kg /per day (Consumer, acute systemic) |
| Inhalative | DNEL | 98 mg/m3 /20 ppm (Worker, longterm systemic) |
| | DNEL | 663 mg/m3 /135 ppm (Worker, acute systemic) |
| | DNEL | 246 mg/m3 /50 ppm (Worker, acute local) |
| | DNEL | 49 mg/m3 (Consumer, longterm systemic) |
| | DNEL | 426 mg/m3 (Consumer; acute systemic) |
| | DNEL | 123 mg/m3 (Consumer, acute local) |

· **PNECs**

**111-76-2 2-butoxyethanol**

| | |
|---|---|
| PNEC | 8.8 mg/l (Freshwater) |
| PNEC | 0.88 mg/l (Seawater) |
| PNEC | 9.1 mg/l (Sporadic release) |
| PNEC | 463 mg/l (Sewage treatment plant) |
| PNEC | 34.6 mg/kg (Freshwater sediment) |
| PNEC | 3.45 mg/kg (Seawater sediment) |
| PNEC | 2.8 mg/kg (Soil) |

· **Ingredients with biological limit values:**

**111-76-2 2-butoxyethanol**

| | |
|---|---|
| BMGV | 240 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butoxyacetic acid |

· **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.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Avoid contact with the eyes.
· **Respiratory protection:** Not necessary if room is well-ventilated.
· **Recommended filter device for short term use:** Combination filter A-P3
· **Hand protection**



Protective gloves

· **Material of gloves**
Butyl rubber, BR
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.
· **Penetration time of glove material**
Butyl rubber gloves with a thickness of 0.4 mm are resistant to:
Acetone: 480 min
Butyl acetate: 60 min
Ethyl acetate: 170 min
Xylene: 42 min
Butyl rubber gloves with a thickness of 0.4 mm are solvent resistant for 42- 480 minutes. As protective measure, we recommend that users and responsible persons for work safety assume solvent resistance length of 42 minutes. Considering the data in section 3 of this SDS, one can assume longer resistance length in

(Contd. on page 5)

# Safety data sheet
## according to UK REACH



**Trade name: MOTIP RADIATOR CLEANER BOTTLE 300 ML**

(Contd. of page 4)

particular cases.

· **Eye/face protection**



Tightly sealed goggles

· **Body protection:** Light weight protective clothing

## SECTION 9: Physical and chemical properties

| | |
|---|---|
| · **9.1 Information on basic physical and chemical properties** | |
| · **General Information** | |
| · **Physical state** | Fluid |
| · **Colour:** | Colourless |
| · **Odour:** | Characteristic |
| · **Odour threshold:** | Not determined. |
| · **Melting point/freezing point:** | <0 °C (<32 °F) |
| · **Boiling point or initial boiling point and boiling range** | 100 °C (212 °F) |
| · **Flammability** | Not applicable. |
| · **Lower and upper explosion limit** | |
| · **Lower:** | Not determined. |
| · **Upper:** | Not determined. |
| · **Flash point:** | >93 °C (>199.4 °F) |
| · **Auto-ignition temperature:** | >200 °C (>392 °F) |
| · **Decomposition temperature:** | Not determined. |
| · **pH at 20 °C (68 °F)** | 7-8 |
| · **Viscosity:** | |
| · **Kinematic viscosity at 40 °C (104 °F)** | 1.2 mm²/s |
| · **Dynamic:** | Not determined. |
| · **Solubility** | |
| · **water:** | Not miscible or difficult to mix. |
| · **Partition coefficient n-octanol/water (log value)** | Not determined. |
| · **Density and/or relative density** | |
| · **Density at 20 °C (68 °F):** | 1 g/cm³ (8.3 lbs/gal) |
| · **Relative density** | Not determined. |
| · **Vapour density** | Not determined. |

| | |
|---|---|
| · **9.2 Other information** | |
| · **Appearance:** | |
| · **Form:** | Fluid |
| · **Important information on protection of health and environment, and on safety.** | |
| · **Explosive properties:** | Product does not present an explosion hazard. |
| · **Solvent content:** | |
| · **Organic solvents:** | 10.8 % |
| · **VOC (EC)** | --- |
| | 109.1 g/l |
| · **VOC-EU%** | 10.80 % |
| · **Solids content:** | 92.5 % |
| · **Change in condition** | |
| · **Evaporation rate** | Not determined. |

| | |
|---|---|
| · **Information with regard to physical hazard classes** | |
| · **Explosives** | Void |
| · **Flammable gases** | Void |

(Contd. on page 6)

# Safety data sheet
## according to UK REACH



(Contd. of page 5)

| | |
|---|---|
| · **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 |
| · **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:**

**111-76-2 2-butoxyethanol**

| | | |
|---|---|---|
| Oral | LD50 | 1200 mg/kg (guinea pig) |
| Inhalative | LC50 / 4 h | 3 mg/m3 (rat) |
| | LC50 / 96 h | >100 mg/l (oncorhynchus mykiss) (Oncorhynchus mykiss) |

· **Primary irritant effect:**
· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **Respiratory or skin sensitisation** No sensitising effects known.
· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**111-76-2 2-butoxyethanol**

| | |
|---|---|
| LC50 / 48 h | 1550 mg/l (daphnia magna) |

(Contd. on page 7)

# Safety data sheet
## according to UK REACH

Printing date 20.11.2024 Version number 2 (replaces version 1) Revision: 30.03.2022

**Trade name: MOTIP RADIATOR CLEANER BOTTLE 300 ML**

(Contd. of page 6)

| | |
|---|---|
| LC50 / 72 h | 1840 mg/l (Pseudokirchneriella subcapitata) |
| LC50 / 96 h | 1474 mg/l (Regenbogenforelle) |

· **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.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## 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.

· **Uncleaned packaging:**
· **Recommendation:**
Disposal must be made according to official regulations.
Disposal must be made according to official regulations.

## SECTION 14: Transport information

| | |
|---|---|
| · **14.1 UN number or ID number** | |
| · **ADR, ADN, IMDG, IATA** | not regulated |
| · **14.2 UN proper shipping name** | |
| · **ADR, ADN, IMDG, IATA** | not regulated |
| · **14.3 Transport hazard class(es)** | |
| · **ADR, ADN, IMDG, IATA** | |
| · **Class** | not regulated |
| · **14.4 Packing group** | |
| · **ADR, IMDG, IATA** | not regulated |
| · **14.5 Environmental hazards:** | Not applicable. |
| · **14.6 Special precautions for user** | Not applicable. |
| · **14.7 Maritime transport in bulk according to IMO instruments** | Not applicable. |
| · **UN "Model Regulation":** | not regulated |



(Contd. on page 8)

# Safety data sheet
## according to UK REACH



(Contd. of page 7)

## 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.
· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not 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.

· **Relevant phrases**
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
· **Classification according to Regulation (EC) No 1272/2008**
Data is based on internal technical data and technical data from suppliers.

· **Department issuing SDS:** R&D legislation and regulatory advisor
· **Contact:** e-mail: sds-nl@european-aerosols.com
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2