

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 2 of 10

Relevant ingredients

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 68425-15-0 | Di-Tert-Dodecyl Polysulphide | | | <5 % |
| | 270-335-7 | | 01-2119540516-41 | |
| | Skin Sens. 1B; H317 | | | |
| 64742-48-9 | Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha | | | 2.5 - < 5 % |
| | 265-150-3 | 649-327-00-6 | | |
| | Carc. 1B, Muta. 1B, Asp. Tox. 1; H350 H340 H304 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|------------|---|------------------------------|----------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 68425-15-0 | 270-335-7 | Di-Tert-Dodecyl Polysulphide | <5 % |
| | inhalation: LC50 = > 15,5 mg/l (vapours); dermal: LD50 = 2000 mg/kg; oral: LD50 = 20008 mg/kg | | |

Further Information

DMSO-Extract < 3 %; IP 346. Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 3 of 10

Suitable extinguishing media

Carbon dioxide (CO₂). Extinguishing powder. Water spray. alcohol resistant foam. Sand.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x). carbon black.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray jet to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

High slip hazard because of leaking or spilled product. Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically. Dispose of waste according to applicable legislation. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Section 12: Ecological Information (non-mandatory)

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothes.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep/Store only in original container.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Oxidizing agent

Further information on storage conditions

Protect against: UV-radiation/sunlight. frost. heat.

Recommended storage temperature: 5 - 40°C

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 4 of 10

7.3. Specific end use(s)

Further information: see technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|----------------------------------|-----|-------------------|-----------|-----------|--------|
| 7429-90-5 | Aluminium metal, respirable dust | - | 4 | | TWA (8 h) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|------------------------------|----------------|----------|------------------------|
| 68425-15-0 | Di-Tert-Dodecyl Polysulphide | | | |
| Worker DNEL, long-term | | inhalation | systemic | 23,5 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 33,3 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 1,66 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 16,6 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 5,8 mg/m ³ |

PNEC values

| CAS No | Substance | Value |
|--|------------------------------|-------------|
| 68425-15-0 | Di-Tert-Dodecyl Polysulphide | |
| Freshwater sediment | | 3,85 mg/kg |
| Marine sediment | | 0,385 mg/kg |
| Secondary poisoning | | 66,7 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 1000 mg/l |

Additional advice on limit values

The product does not contain any relevant quantities of substances with legally established exposure limitation.

8.2. Exposure controls



Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 5 of 10

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | | |
|---|------------------------|---------------------|
| Physical state: | Paste | |
| Colour: | silver | |
| Odour: | characteristic | |
| Odour threshold: | not determined | |
| | | Test method |
| Melting point/freezing point: | not determined | |
| Boiling point or initial boiling point and boiling range: | not determined | |
| Flammability: | No data available | |
| Lower explosion limits: | No data available | |
| Upper explosion limits: | No data available | |
| Flash point: | not applicable | |
| Auto-ignition temperature: | No data available | |
| Decomposition temperature: | No data available | |
| pH-Value: | not applicable | |
| Viscosity / kinematic: (at 40 °C) | 220 mm ² /s | DIN 51562 - Grundöl |
| Water solubility: | insoluble | |
| Solubility in other solvents | | |
| No data available | | |
| Partition coefficient n-octanol/water: | No data available | |
| Vapour pressure: (at 20 °C) | <0,1 hPa | |
| Density (at 20 °C): | 1,05 g/cm ³ | DIN 51757 |
| Relative vapour density: | No data available | |
| Particle characteristics: | No data available | |

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

evaluation: not Explosive.

Self-ignition temperature

Solid: incapable of spontaneous heating.

Other safety characteristics

Solid content: 32,2%

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is stable under storage at normal ambient temperatures.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 6 of 10

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Do not overheat to avoid decomposition by heat.

Refer to chapter 7 No further action is necessary.

10.5. Incompatible materials

Reacts with: Oxidising agent, strong

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x). carbon black.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

Mixture not tested.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No | Chemical name | | | | |
|------------|------------------------------|---------------|---------|--------|---|
| | Exposure route | Dose | Species | Source | Method |
| 68425-15-0 | Di-Tert-Dodecyl Polysulphide | | | | |
| | oral | LD50 mg/kg | 20008 | Rat | https://www.epa.gov/chemical-research/to other: REACH guidance. Chapter R.6: QSAR |
| | dermal | LD50 mg/kg | 2000 | Rat | OECD 402 |
| | inhalation (4 h) vapour | LC50 mg/l | > 15,5 | Rat | OECD 403 |

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Aspiration hazard

Based on available data, the classification criteria are not met.

11.2. Information on other hazards

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 7 of 10

Endocrine disrupting properties

not applicable

Further information

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

SECTION 12: Ecological information**12.1. Toxicity**

Based on available data, the classification criteria are not met.
Mixture not tested.

| CAS No | Chemical name | | | | | |
|------------|------------------------------|------------------|-----------|--------------------------|---------------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 68425-15-0 | Di-Tert-Dodecyl Polysulphide | | | | | |
| | Acute fish toxicity | LC50 > 100 mg/l | 96 h | Danio rerio (zebrafish) | OECD 203 | |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Raphidocelis subcapitata | Study report (2010) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 < 0,1 mg/l | 48 h | Daphnia magna | | |

12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|------------------------------|---------|
| 68425-15-0 | Di-Tert-Dodecyl Polysulphide | > 6,2 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|------------------------------|--------|-----------------|----------------------|
| 68425-15-0 | Di-Tert-Dodecyl Polysulphide | < 0,01 | Cyprinus carpio | REACH Registration D |

12.4. Mobility in soil

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects

No data available

Further information

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 8 of 10

List of Wastes Code - residues/unused products

120112 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; spent waxes and fats; hazardous waste

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number or ID number: -
14.2. UN proper shipping name: -
14.3. Transport hazard class(es): -
14.4. Packing group: -

Inland waterways transport (ADN)

14.1. UN number or ID number: -
14.2. UN proper shipping name: -
14.3. Transport hazard class(es): -
14.4. Packing group: -

Marine transport (IMDG)

14.1. UN number or ID number: -
14.2. UN proper shipping name: -
14.3. Transport hazard class(es): -
14.4. Packing group: -

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: -
14.2. UN proper shipping name: -
14.3. Transport hazard class(es): -
14.4. Packing group: -

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 29, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions: 2,5%

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 9 of 10

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 3,4,5,7,9,10,11,12,14.

Abbreviations and acronyms

Asp. Tox: Aspiration hazard

Skin Sens: Skin sensitisation

Muta: Germ cell mutagenicity

Carc: Carcinogenicity

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road ; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ; ASTM - American Society for the Testing of Materials ; ATE - Acute Toxicity Estimates ; bw - Body weight ; CAO - Cargo Aircraft Only ; CAS - Chemical Abstracts Service ; CMR - Carcinogen, Mutagen or Reproductive Toxicant ; DIN - Standard of the German Institute for Standardisation ; DNEL - Derived No-Effect Level ; DOT - Department of Transportation ; DSL - Domestic Substances List (Canada) ; EG - European Union ; EN - European standards ; GHS - Globally Harmonized System ; GLP - Good Laboratory Practice ; HMIS - Hazardous Materials Identification System ; IARC - International Agency for Research on Cancer ; IATA - International Air Transport Association ; IC50 - Half maximal inhibitory concentration ; ICAO - International Civil Aviation Organization ; IMDG - International Maritime Dangerous Goods ; IMO - International Maritime Organization ; ISO - International Organisation for Standardization ; LC50 - Lethal Concentration to 50 % of a test population ; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose) ; MARPOL - International Convention for the Prevention of Pollution from Ships ; MSHA - Mine Safety and Health Administration ; n.o.s. - Not Otherwise Specified ; NFPA - National Fire Protection Association ; NO(A)EC - No Observed (Adverse) Effect Concentration ; NO(A)EL - No Observed (Adverse) Effect Level ; NOELR - No Observable Effect Loading Rate ; NTP - National Toxicology Program ; OECD - Organization for Economic Co-operation and Development ; PBT - Persistent, Bioaccumulative and Toxic substance ; (Q)SAR - (Quantitative) Structure Activity Relationship ; RCRA - Resource Conservation and Recovery Act ; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals ; RID - Regulation concerning the International Carriage of Dangerous Goods by Rail ; RQ - Reportable Quantity ; SADT - Self- Accelerating Decomposition Temperature ; SARA - Superfund Amendments and Reauthorization Act ; SDS - Safety Data Sheet ; TSCA - Toxic Substances Control Act (United States) ; UN - United Nations ; vPvB - Very Persistent and Very Bioaccumulative

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H317 | May cause an allergic skin reaction. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| EUH210 | Safety data sheet available on request. |

Further Information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Safety Data Sheet

according to UK REACH Regulation

ADDINOL Anti-Seize Paste GAL

Revision date: 26.08.2024

Product code: 717267

Page 10 of 10

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)