



DOLPHIN AM-40 ANTI RUST LUBRICANT

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Details

Product Name : **Dolphin AM-40 Anti Rust Lubricant Aerosol Spray**
Recommended Use : Anti Rust Lubricant

Company Details

Company Name : **Al Muqarram Industry L.L.C.**
Address : Etihad Street, Modern Industrial Area, Umm al Thaoob
Post Box No. 24756
Umm Al Quwain, United Arab Emirates
Phone Number : +971 (6) 5353796
Fax No. : +971 (6) 5353964
E-mail ID : info@muqarram.com, sales@muqarram.com

2. HAZARDS IDENTIFICATION

| | | |
|------------------------------|--------------------------|----------------|
| Physical Hazards | Flammable aerosol | Category 1 |
| | Gases under pressure | Compressed gas |
| Health Hazards | Aspiration Toxicity | Category 1 |
| | Eye Irritant | Category 2A |
| | Skin Irritant | Category 2 |
| Environmental Hazards | Aquatic Acute Toxicity | Category 3 |
| | Aquatic Chronic Toxicity | Category 3 |

Label Elements



Contains: Naphtha (petroleum), hydro desulfurized heavy (Petroleum Base Oil) and Additives

Danger!

H222 Extremely flammable aerosol.
H280 Contains gas under pressure: may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Prevention

P210 Keep away from heat, sparks, open flames and 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.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye protection.

Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical attention.
P362 Take off contaminated clothing and wash it before reuse.



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| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | if eye irritation persists: Get medical attention. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor or physician. |
| P331 | Do NOT induce vomiting. |
| Storage | |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| Disposal | |
| P501 | Dispose of contents and container in accordance with local and national regulations. |
| Other hazards that do not Result in Classification | None |

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Identity | CAS # | Wt. % | Substance Classification |
|---|-------------|---------|---|
| Naphtha (petroleum), hydro desulfurized heavy | 64742-82-1 | 15 – 20 | Flam. Liq. Cat 3 (H226) Asp. Tox. Cat 1 (H304) |
| Petroleum Base Oil | 8042-47-5 | 70 – 80 | Not Hazardous |
| Additives | Proprietary | <1 | Eye Dam. Cat 1 (H318) Skin Irrit. Cat 2 (H315) |

See Section 16 for full text of GHS Classification and H phrases

4. FIRST AID MEASURES

| | |
|---|---|
| Ingestion | Aspiration Hazard. DO NOT induce vomiting. Call a Poisons Information Center immediately. |
| Eyes | Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists. |
| Skin Contact | Wash with soap and water. If irritation develops and persists, get medical attention. |
| Inhalation | If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist. |
| Most Important Symptoms | May cause eye, skin, and respiratory irritation. Prolonged skin contact may cause drying of the skin. Inhalation may cause headache, dizziness, nausea and other symptoms of central nervous system depression. Accidental ingestion may cause gastrointestinal effects with irritation, nausea, vomiting, dizziness, coma and death. Aspiration into the lungs during ingestion or vomiting may cause lung damage. |
| Indication of Immediate Medical Attention and Special Treatment, if Needed | Immediate medical attention is required for ingestion. |



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5. FIRE FIGHTING MEASURES

| | |
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| Extinguishing media | Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. |
| Special hazards arising from the substance or mixture | Extremely flammable aerosol. Contents under pressure. Keep away from ignition source and open fire. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces |
| Advice for firefighters | Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Use shielding to protect against bursting containers. Cool fire-exposed containers with water. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area. |
| Environmental Precautions Methods And Material For Containment And Cleaning Up | Avoid releases to the environment. Report spills to authorities as required. Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. |

7. HANDLING AND STORAGE

| | |
|--------------------------------------|---|
| Precautions for Safe Handling | Avoid contact with eyes and skin. Avoid breathing vapors or aerosols. Intentional misuse by deliberately concentrating vapors and inhaling can be harmful or fatal. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty. |
| Proper Storage Condition | Store in a cool, dry ventilated area away from incompatible materials. Protect from physical damage. Do not store in direct sunlight, near open flames or above temperatures greater than 50°C. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

| Chemical Identity | Occupational Exposure Limits | Biological Limit Value |
|---|---|------------------------|
| Naphtha (petroleum), hydro desulfurized heavy | 350 mg/m ³ TWA (manufacturer recommended) 5 mg/m ³ TWA AU OEL (as oil mist, refined mineral) 5 mg/m ³ TWA, 10 mg/m ³ STEL NZ OEL (as oil mist, mineral) 5 mg/m ³ TWA ACGIH TLV (inhalable) (as mineral oil) | None Established |



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|--|--|------------------|
| Petroleum Base Oil | 5 mg/m ³ TWA AU OEL (as oil mist, refined mineral) 5 mg/m ³ TWA, 10 mg/m ³ STEL NZ OEL (as oil mist, mineral) 5 mg/m ³ TWA ACGIH TLV (inhalable) (as mineral oil) | None Established |
| Additives | None Established | None Established |
| Engineering Controls | Use in a well-ventilated area. | |
| Eye/Face Protection | Avoid eye contact. Always spray product away from your face. | |
| Respiratory Protection | None needed for normal use with adequate ventilation. | |
| Skin Protection | Avoid prolonged or repeated skin contact. Chemical resistant gloves recommended for operations where skin contact is likely. | |
| For Bulk Processing or Workplace Use the Following Controls are recommended | | |
| Appropriate Engineering Controls | Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits. | |
| Eye Protection | Safety goggles recommended where eye contact is possible. | |
| Skin Protection | Wear chemical resistant gloves. | |
| Respiratory Protection | None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear an approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice. | |
| Work/Hygiene Practices | Eye wash facilities should be available. Wash hands after handling. | |
| Other Protective Equipment | None required. | |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|-------------------------------------|
| Appearance | |
| Physical State | Liquid |
| Form | Aerosol |
| Color | Clear/Colorless |
| Properties | |
| Odor | Pleasant odor |
| Odor Threshold | Not determined |
| pH | Not determined |
| Melting/Freezing Point | Not applicable |
| Partition Coefficient of n-octanol/water | Not determined |
| Auto-ignition temperature: | Not determined |
| Decomposition temperature | Not determined |
| Viscosity | Not determined |
| Boiling Point/Range | 162-192°C (324-378°F) (Concentrate) |
| Flash Point | 41-42°C (106-108°F) (Concentrate) |
| Evaporation Rate | Not determined |
| (Butyl Acetate = 1) | |
| Flammability (solid, gas) | LEL 0.7% UEL 7.0% (Concentrate) |
| Vapor Pressure | 724 kPa @ 21°C (69.8°F) |
| Vapor Density (air =1) | >1 |
| Relative Density (Water = 1) | Not determined |
| Specific Heat Value | Not determined |
| Particle Size | Not applicable |
| VOC | 49.5% |



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| Percent Volatile | 78% |
| Saturated Vapor Concentration | Not determined |
| Release of invisible flammable vapors and gases | Yes |
| Aerosol Protection Level (NFPA 30B) | 3 |
| Solubility | Insoluble in water |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | Non-reactive |
| Chemical stability | Stable under normal storage conditions |
| Possibility of hazardous reactions | Will not occur |
| Conditions to avoid | Avoid extreme heat, flames and other sources of ignition. Avoid physical damage to aerosol can. |
| Incompatible materials | Strong oxidizers. |
| Hazardous decomposition products | Carbon monoxide and carbon dioxide |

11. TOXICOLOGICAL INFORMATION

| | |
|--|--|
| <u>Possible Health Effects</u> | |
| Ingestion | Swallowing is an unlikely route of exposure for an aerosol product. Swallowing large amounts may produce gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death. |
| Eye Contact | Liquid sprayed into eyes may cause irritation. May cause redness, stinging, swelling, and tearing. |
| Skin Contact | May produce mild irritation. Prolonged and/or repeated contact may cause defatting with possible dermatitis. |
| Inhalation | Mist or vapor can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal. |
| Chronic Exposure | None known. |
| Medical Conditions Aggravated by Exposure | Preexisting eye, skin and respiratory conditions may be aggravated by exposure. |
| Acute Toxicity Values | Naphtha (petroleum), hydro desulfurized heavy: Oral rat LD50- >5000 mg/kg; Skin rabbit LD50- >3160 mg/kg. |
| Non-Hazardous Ingredients | Petroleum Base Oil: Oral rat LD50->15 gm/kg No toxicity data available |



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12. ECOLOGICAL INFORMATION

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| Eco-toxicity | This product has been classified as harmful to the aquatic environment with long lasting effects based on the components. Releases to the environment should be avoided. |
| Persistence and Degradability | Naphtha (petroleum), hydrodesulfurized heavy: 96 hr LC ₅₀ Fathead minnow – 8.2 mg/L; 96 hr LC ₅₀ Crangon Crangon – 4.3 mg/L |
| Bioaccumulation | No data available. |
| Mobility in soil | No data available. |

13. DISPOSAL CONSIDERATIONS

| | |
|---|---|
| Safe Handling and Disposal Method | Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. |
| Disposal of Contaminated Packaging | Empty containers may be disposed of through normal waste management options. |
| Environmental Regulations | Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations. |

14. TRANSPORT INFORMATION

| | |
|--|---|
| IMDG Shipping Name | Aerosols |
| IMDG Hazard Class | 2.1 |
| UN Number | UN1950 |
| Marine Pollutant | No |
| IATA Shipping Name | Aerosols, Flammable |
| IATA Hazard Class | 2.1 |
| UN Number | UN1950 |
| ADG Shipping Name | Aerosols |
| ADG Hazard Class | 2.1 |
| UN Number | UN1950 |
| Hazchem (Emergency Action) Code | 2YE |
| Special Precautions for User | Dolphin AM-40 manufacturer does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air. |

15. REGULATORY INFORMATION

| | |
|---|----------------|
| Montreal Protocol (Ozone Depleting Substances) | None present |
| The Stockholm Convention (Persistent Organic Pollutants) | None present |
| The Rotterdam Convention (Prior Informed Consent) | Not applicable |



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| Basel Convention | Not applicable |
| International Convention for the Prevention of Pollution from Ships (MARPOL) | Not applicable |
| Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) | Not applicable |
| Australian Inventory of Chemical Substances | All of the components of this product are listed on the AICS inventory. |
| New Zealand: | <p>HSNO Approval Number: HSR002515</p> <p>Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Good for transport purposes.</p> <p>HSNO Hazard Classes: 2.1.2A, 6.1E, 6.3A, 6.4A, 9.1C, 9.1D</p> <p>New Zealand Inventory: All the ingredients comply with the HSNO regulations</p> |

16. OTHER INFORMATION

Full Text of GHS Classification and H Phrases from Section 3

| | |
|--------------------------|------------|
| Acute Toxicity | Category 4 |
| Aquatic Chronic Toxicity | Category 2 |
| Aspiration Toxicity | Category 1 |
| Eye Damage | Category 1 |
| Eye Irritant | Category 2 |
| Flammable Liquid | Category 3 |
| Skin Irritant | Category 2 |

Specific Target Organ Toxicity Single Exposure Category 3

| | |
|------|--|
| H226 | Flammable liquid and vapor. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H411 | Toxic to aquatic life with long lasting effects. |

List of Abbreviations or Acronyms

| | |
|-------|---|
| ACGIH | American Conference of Industrial Hygienists |
| ADG | Australian Dangerous Goods |
| AICS | Australian Inventory of Chemical Substances |
| AU | Australia |
| EC | Effective Concentration |
| EU | European Union |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| HSNO | Hazardous Substances and New Organisms |
| IARC | International Agency of Research on Cancer |



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| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC | Lethal Concentration |
| LD | Lethal Dosage |
| LEL | Lower Explosive Limit |
| NTP | National Toxicology Program |
| OEL | Occupational Exposure Limits |
| US OSHA | United States Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| SDS | Safety Data Sheet |
| STEL | Short Term Exposure Limit |
| TWA | Time-Weighted Average |
| UEL | Upper Explosive Limit |
| VOC | Volatile Organic Compounds |
| WHS | Work Health and Safety |

General Information

This product should be used as directed. For further information, please consult product data sheets and application information bulletin for this product.

Further Information

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate health and safety precaution, and hazard information. It does not represent a guarantee of the properties of product.

Revision Comments

This safety data sheet supersedes all previous issues and users are cautioned to ensure that it is correct.

DISCLAIMER

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.