AL- MUQARRAM INDUSTRY

المكرم للصناعة د.م.م.
Al Muqarram Industry L.L.C.

MATERIAL SAFETY DATA SHEET

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**
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Website : **www.muqarram.com**

Emergency Telephone Number: 00971-549981925

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
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. 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)
Additives	Proprietary	<1	Eye Damage. Cat 1 (H318) Skin Irritation. Cat 2 (H315)

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.

5. FIRE FIGHTING MEASURES

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	: Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area
Environmental Precautions	: Avoid releases to the environment. Report spills to authorities as required.
Methods And Material For Containment And Cleaning Up	: 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/m3 TWA (manufacturer recommended) 5 mg/m3 TWA AU OEL (as oil mist, refined mineral) 5 mg/m3 TWA, 10 mg/m3 STEL NZ OEL (as oil mist, mineral) 5 mg/m3 TWA ACGIH TLV (inhalable) (as mineral oil)	None Established
Petroleum Base Oil	5 mg/m3 TWA AU OEL (as oil mist, refined mineral) 5 mg/m3 TWA, 10 mg/m3 STEL NZ OEL (as oil mist, mineral) 5 mg/m3 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 PROPERTIE

Appearance

Form	: Liquid
Color	: 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 determine
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 (Butyl Acetate = 1)	: Not determined
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%
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

Possible Health Effects

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 LD_{50}- >5000 mg/kg; Skin rabbit LD_{50}- >3160 mg/kg. Petroleum Base Oil: Oral rat LD_{50}->15 gm/kg
Non-Hazardous Ingredients	: No toxicity data available

12. ECOLOGICAL INFORMATION

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. Naphtha (petroleum), hydrodesulfurized heavy: 96 hr LC50 Fathead minnow – 8.2 mg/L; 96 hr LC50 Crangon Crangon – 4.3 mg/L
Persistence and Degradability	: No data available.
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	: **UN Number**
Marine Pollutant	: No
IATA Shipping Name	: Aerosols, Flammable
IATA Hazard Class	: 2.1
UN Number	: **UN Number**
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	: Not applicable

(Prior Informed Consent)	
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 inventor
New Zealand	: HSNO Approval Number: HSR002515
	Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Good for transport purposes.
	HSNO Hazard Classes: 2.1.2A, 6.1E, 6.3A, 6.4A, 9.1C, 9.1D
	New Zealand Inventory: All the ingredients comply with the HSNO regulations.

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
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.

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