

MATERIAL SAFETY DATA SHEET

DOLPHIN Engine Degreaser

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Revision No. 2

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Details

Product Name : DOLPHIN Engine Degreaser
Recommended Use : Vehicle Engines

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
Website : www.muqarram.com

Emergency Telephone Number: 00971-549981925

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classified as : Hazardous
Label Elements : Signal word warning.
Other Hazards : Flammable aerosol, pressurized, may burst if heated.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Wt. %
Water	7732-18-5	70 – 90
Butyl DiGlycol	112-34-5	5 – 20
Iso Propyl Alcohol	67-63-0	< 15
Surfactants	-	< 10
Perfume	-	< 1
Propellant	-	10 - 30

4. FIRST AID MEASURES

Description of first aid Measures

Eyes : Flush eye with plenty of water. If irritation or other symptoms persist seek medical attention
Ingestion : If swallowed, do not induce vomiting. Never give anything by mouth to unconscious person.
Skin Contact : Remove contaminated clothing. Wash affected area with soap and water.
Inhalation : Remove victim to fresh air. Seek medical attention immediately. If breathing stops gives artificial respiration.

Most Important Symptoms : Adverse effect not expected from this products under normal condition of use

Indication of Immediate Medical : No specific treatment, treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media : Dry agent, Carbon Mono Oxide, prevent contamination of drains and waterways.
Specific Hazards Arising From the Chemical : Flammable, may evolve toxic gases (hydrocarbon) when heated to decomposition. Aerosol may be explode at temperature above 50 °C.
Advice for Firefighters : Fire fighters should wear full protective clothing for fires in areas where chemical Are used or stored.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective Equipment : Wear appropriate protective equipment. Ensure adequate ventilation especially in Confined area.
Environmental Precautions : Prevent entry in storm sewers and waterways. Report spill as required by local and National regulations.
Method of Cleaning Up : Absorb with an inert material. Collect into a suitable container for disposal. Rinse area With clean water

7. HANDLING AND STORAGE

Precautions for Safe Handling : Handle with good industrial hygiene and safety practice. Avoid contact with eye, clothing and wash thoroughly after handling.
Proper Storage Condition : No special storage required. Store in a well-ventilated area removed from incompatible substances, heat, or ignition sources .Ensure aerosol cans are adequately labelled, protected from physical damage and sealed when not in use.
Respiratory Protection : Not required under normal use conditions.
Eye Protection : Not required for normal use. Avoid contact with eye.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters : **Exposure Limit**
Personal Protection : 1000 ppm TWA OSHA PEL
Chemical : 1000 ppm TWA ACGIH TLV(Aliphatic hydro carbon gas)
 Non Hazardous Ingredients Non Established.
Exposure Control
Engineering Controls : Avoid inhalation. Use in well ventilated areas
Personal Protective Equipment : Respiratory protection not required under normal use conditions. Gloves required under normal use conditions. Eye protection required for normal use. Avoid contact with eye.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State : Clear Colorless Liquid
Odor : Rosy Odor
Specific gravity of bulk : 0.950 – 1.005
pH : 8 –10.0
Water Solubility : Soluble

10. STABILITY AND REACTIVITY

Reactivity : Stable under normal use.
Chemical Stability : Stable under recommended storage condition.
Possibility of Hazard : Polymerization will not occur.
Reactivity
Condition to avoid : Keep away from all the heat sources, open flames and other sources of ignition.

Incomplete Material	: Thermal decomposition will generate oxides of carbon, silicone di oxide
Hazardous Decomposition Products	: May evolve carbon oxides and hydrocarbons and hydrocarbon when heated to decomposition

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effect

Inhalation	: Low irritant. No adverse effects expected from the normal use
Eye Contact	: Direct contact may cause mild eye irritation with redness & tearing.
Skin Contact	: Prolong or repeated contact may cause mild irritation in some individuals.
Ingestion	: Swallowing may cause gastrointestinal disturbances.

12. ECOLOGICAL INFORMATION

Eco-toxicity	: No information provided.
Persistence and Degradability	: No data available.
Bioaccumulation	: No information available.
Mobility	: Disperses in water
Other Adverse Effects	: No eco toxicity data available.

13. DISPOSAL CONSIDERATIONS

Water Treatment Method	: Disposal should be accordance with all local, state, provincial and federal regulation
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14. TRANSPORT INFORMATION

UN Number	: UN 1950
IMDG Shipping Name	: Aerosol, Flammable, LTD Quantity
Transport Hazard Class	: 2.1
IATA Shipping Name	: Aerosol
IATA Hazard Class	: 2.1
ADG Shipping Name	: Aerosol
ADG Hazard Class	: 2.1

15. REGULATORY INFORMATION

Hazards Codes	: F (Flammable)
Risk Phrases	: R10 (Flammable)
Safety Phrases	S16 -Keep away from sources of ignition, no smoking.

16. OTHER INFORMATION

Additional Information
It should be noted that the effects from exposure to this product depend on several Factors including frequency and duration of use, quantity used, and effectiveness of Control measures, protective equipment used and method of application.

Abbreviations

ACGIH	American Conference of Government Industrial Hygienists.
CAS#	Chemical Abstract Service Number.
PPM	Parts per million.
STEL	Short Term Exposure Limit.
SWA	Safe work Australia.
TLV	Threshold Limit Value.
TWA	Time Weighted Average

DISCLAIMER

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.