

Material Safety Data Sheet

1. Identification of the material and supplier:

Product name	MARINE 4045
SDS no.	7714045
Product use	Medium & Low speed Diesel Engines. For specific application advice see appropriate Technical Data Sheet or consult our company representative.
Supplier	DAMAM General Trading FZCO P.O BOX 452939 LB181402, JAFZA VIEW 18, Jebel Ali Free Zone, Dubai, United Arab Emirates Tel: +971 4 321 9009 Fax: +971 4 343 0776 Email: info@damam.ae
EMERGENCY TELEPHONE	+971 4 321 9009
Product code	PAT7714045

2. Hazards identification:

Statement of hazardous/dangerous nature	NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
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3. Composition/information on ingredients:

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

This product does not contain any hazardous ingredients at or above regulated thresholds.

4. First-aid measures:

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Advice to doctor	Treatment should in general be symptomatic and directed to relieving any effects.

5. Fire-fighting measures:

Extinguishing media	In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.
Suitable	Do not use water jet.
Not suitable	
Hazardous decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides.
Unusual fire/explosion hazards	In a fire or if heated, a pressure increase will occur and the container may burst.
Special fire-fighting procedures	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
Protection of fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures:

Personal precautions	<p>No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.</p> <p>Keep unnecessary and unprotected personnel from entering.</p> <p>Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).</p>
Environmental precautions	<p>Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.</p> <p>Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).</p>
Large spill	<p>Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.</p>
Small spill	<p>Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.</p> <p>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p>

7. Handling and storage:

Handling	Put on appropriate personal protective equipment.
Storage	<p>Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10).</p>
Combustibility Classification	Combustible liquid Class C2 (AS 1940).

8. Exposure controls/personal protection:

Ingredient name

Base oil - unspecified

Occupational exposure limits

TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral

Whilst specific OELs for certain components are included in this SDS, it should be noted that other components of the preparation will be present in any mist, vapor or dust produced. For this reason, the specific OELs may not be applicable to the product and are provided for guidance purposes.

Biological Limit Values

No biological limit allocated.

Exposure controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organization for standards.

Occupational exposure controls

The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Avoid breathing of vapors, mists or spray. Select and use respirators in accordance with AS/NZS 1715/1716. When mists or vapors exceed the exposure standards then the use of the following is recommended:

Respiratory protection

Approved respirator with organic vapors and dust/mist (Type P1) filters. Filter capacity and respirator type depends on exposure level.

Skin and body

Avoid prolonged or repeated contact with skin. Wear protective clothing if prolonged or repeated contact is likely.

Hand protection

Wear protective gloves if prolonged or repeated contact is likely. Chemical-resistant gloves. Recommended: nitrile gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore, be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Eye protection

Safety glasses with side shields.

9. Physical and chemical properties:

Physical state	Liquid.
Color	Light Amber.
Odour	Mild.
Flash point	>242 °C.
Vapor pressure	Not Available.
Vapor density	Not Available.
Viscosity	Kinematic: 147.40 mm ² /s (147.40 cSt) at 40°C. Kinematic: 14.6 mm ² /s (14.6 cSt) at 100°C.
pH	Not available.
Boiling point / range	Not available.
Melting point / range	Not available.
Pour point	-15 °C.
Relative density/Specific gravity	Not available.
Density	925 kg/m ³ (0.925 g/cm ³) at 15°C.
Solubility	insoluble in water.

10. Stability and reactivity:

Stability	The product is stable.
Conditions to avoid	Avoid extreme temperatures, strong oxidizers, fire.
Incompatibility with various substances/Hazardous Reactions	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides.

11. Toxicological information:

Effects and symptoms

Eyes

No significant health hazards identified.

Skin

Prolonged or repeated contact can defeat the skin and lead to irritation and/or dermatitis.

Inhalation

No significant health hazards identified.

Ingestion

No significant health hazards identified.

Chronic toxicity

Other chronic toxicity data

USED ENGINE OILS

Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.

Carcinogenic effects

No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC).

Mutagenic effects

No known significant effects or critical hazards.

Incompatibility with various substances/Hazardous Reactions

Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides
metal oxide/oxides.

12. Ecological information:

Ecotoxicity

Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].

**Biodegradability
Persistence/degradability**

The biodegradability of this material has not been determined.

13. Disposal considerations:

**Disposal considerations /
Waste information**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

**Special Precautions for
Landfill or Incineration**

No additional special precautions identified.

14. Transport information:

**International transport
regulations
Special precautions for user**

Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).

No known special precautions required. See Section: "Handling and storage" for additional information.

15. Regulatory information:

**Standard for the Uniform
Scheduling of Medicines and
Poisons
Substances of very high concern
Annex XVII - Restrictions on the
manufacturer, placing on the
market and use of certain
dangerous substances, mixtures
and articles
Other regulations**

Not scheduled.

Consumer products - This product is exempt per Appendix A of the SUSMP.

REACH Status

Not applicable

For the REACH status of this product please consult your company contact, as identified in Section 1.

**United States inventory
(TSCA 8b)**

All components are listed or exempted.

Australia inventory (AICS)

At least one component is not listed.

Canada inventory

At least one component is not listed.

China inventory (IECSC)

At least one component is not listed.

Japan inventory (ENCS)

At least one component is not listed.

16. Other information:

Key to abbreviations

AMP = Acceptable Maximum Peak.
ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.
ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail.
ADG Code = Australian Code for the Transport of Dangerous Goods by Road and Rail.
CAS Number = Chemical Abstracts Service Registry Number.
HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.
ICAO = International Civil Aviation Organization.
IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.
IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.
IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.
NOHSC = National Occupational Health & Safety Commission, Australia.
TWA = Time weighted average.
STEL = Short term exposure limit.
UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

History

Date of Issue	01-Jun-2023.
Date of Revision	01-Sep-2023.
Prepared by	Product Stewardship.

Notice to reader:

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