

Material Safety Data Sheet

1. Identification of the material and supplier

Product name : Monster M Dot 4

ETHOXINOL® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more countries, but not all countries.

Other names : Not available.

Recommended use : Brake fluid

Supplier name and address : Monster Lubricants Pty Ltd
PO Box 442 Ramsgate
NSW 2217, Australia

Telephone : +61 2 9750 8344

e-mail address for MSDS information : info@monsterlubricants.com.au

Emergency telephone number : **Australia: 1800 786 152 (ALL HOURS)**
International: +65 6336 6011 (ALL HOURS)

2. Hazards identification

Hazard classification : NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

Based on available information, this material is not classified as hazardous according to Australian criteria.

Not classified as Dangerous Goods for the purpose of transport by road, rail, sea or air transport.

Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

Risk phrase(s) : None Assigned.

Safety phrase(s) : None Assigned.

Poison schedule (Australia) : None Allocated.

3. Composition/information on ingredients

Physical state : Liquid.

Colour / Appearance : Straw to yellow

Ingredient name	CAS number	Concentration (%)
Polyglycol ether borate ester	-	30 - 60
Glycol ethers	-	30 - 60
Corrosion inhibitors	-	< 10
Other ingredients determined not to be hazardous	-	to 100

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4 . First-aid measures

Ingestion

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Medical Attention and Special Treatment

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Following ingestion this product is likely to hydrolyse to form a glycol ether and boric acid.

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 1126; New Zealand 0800 764 766.

5 . Fire-fighting measures

Extinguishing media

Use dry chemical, CO₂, water spray (fog) or foam.

Hazardous combustion products

Decomposition products may include the following materials:

carbon dioxide
carbon monoxide
nitrogen oxides

Special protective equipment for 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.

Precautions for fire fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

In a fire or if heated, a pressure increase will occur and the container may burst.

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6 . Accidental release measures

Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and clean-up procedures

Large spill

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 (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. 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.

7 . Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Precautions for safe storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

C classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

8 . Exposure controls/personal protection

National exposure standards

No value assigned to this material by the Australian regulatory authority.

Biological limit values

No biological limit allocated.

Engineering controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Eyes

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

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8 . Exposure controls/personal protection

Refer to Australian/New Zealand Standard AS/NZS 1337:1992 for guidance on selection and use of protective eyewear.

Hands

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Refer to Australian/New Zealand Standard AS/NZS 2161.1: 2000 for guidance on selection and use of protective gloves.

Respiratory

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Refer to Australian/New Zealand Standard AS/NZS 1715 and AS/NZS 1716 for guidance on selection and use of respiratory devices.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

9 . Physical and chemical properties

Physical state : Liquid.
Colour / Appearance : Straw to yellow
Solubility : Soluble in the following materials: cold water and acetone.

Density	: 1.06 g/cm ³ [20°C]	Vapour density	: Not available.
Specific gravity	: Not available.	Vapour pressure	: Not available.
Boiling point	: >260°C	Flash point	: Closed cup: 137°C
Melting point	: Not available.	Flammable limits	: Not available.
Viscosity	: Dynamic: 5 mPa·s	Auto-ignition temperature	: Not available.
pH	: 8.4		

(Typical values only - consult specification sheet)

10 . Stability and reactivity

Chemical stability : The product is stable.
Conditions to avoid : No specific data.
Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous Reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

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11 . Toxicological information

Potential acute health effects

- Ingestion** : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Eye contact : No known significant effects or critical hazards.
Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Acute toxicity

Product/ingredient name	Exposure	Species	Dose	Result
ETHOXINOL D4 CLEAR	LD50 Dermal	Rabbit	>2000 mg/kg	-

Potential chronic health effects

- Chronic effects** : Kidney and liver toxicity, reproductive toxicity (testicular toxicity) and delayed development was observed in animal studies with high level oral exposures to one of the polyglycol ether components and the boric acid ingestion hydrolysis by-product.
Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Teratogenicity : No known significant effects or critical hazards.
Developmental effects : No known significant effects or critical hazards.
Fertility effects : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
Ingestion : No specific data.
Skin : No specific data.
Eyes : No specific data.
Target organs : Contains material which may cause damage to the following organs: kidneys, liver.

12 . Ecological information

- Environmental effects** : No known significant effects or critical hazards.

Aquatic ecotoxicity

- Conclusion/Summary** : Not available.

Biodegradability

- Conclusion/Summary** : Not available.

- Mobility** : Not available.

- Other adverse effects** : No known significant effects or critical hazards.

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13 . Disposal considerations

Methods of disposal

The generation of waste should be avoided or minimised 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.

14 . Transport information

Road and rail transport

Not classified as dangerous goods by the criteria of the Australian Dangerous Goods (ADG) Code for transport by road and rail.

Marine transport

Not classified as dangerous goods by the criteria of the International Maritime Dangerous Goods (IMDG) Code for transport by sea.

Air transport

Not classified as dangerous goods by the criteria of the International Air Transport Association (IATA) Code for transport by air.

15 . Regulatory information

Inventory status

Country	Inventory	Status
Australia	AICS	All components are listed or exempted.
Canada	DSL	At least one component is not listed.
China	IECSC	At least one component is not listed.
Europe	EINECS/ELINCS/NLP	At least one component is not listed.
Japan	ENCS	At least one component is not listed.
Korea	KECI	At least one component is not listed.
New Zealand	NZIoC	At least one component is not listed.
Philippines	PICCS	At least one component is not listed.
United States	TSCA	At least one component is not listed.

Carcinogen schedule (Australia) : None Allocated.

Poison schedule (Australia) : None Allocated.

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16 . Other information

✔ Indicates information that has changed from previously issued version.

Disclaimer

While the information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED MONSTER EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR MONSTER PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE. NO PART OF THIS DATA SHEET MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM, OR BY ANY MEANS, WITHOUT PERMISSION IN WRITING FROM HUNTSMAN. ALL REQUESTS FOR PERMISSION TO REPRODUCE MATERIAL FROM THIS DATA SHEET SHOULD BE DIRECTED TO MONSTER, MANAGER, PRODUCT SAFETY AT THE ABOVE ADDRESS