

SAFETY DATA SHEET

REV: 01 DATE: 03 OCTOBER 2023

DOT 4 - HIGH PERFORMANCE BRAKE FLUID (CLEAR)

1. Product & Company Identification

Product Details

Product name: DOT 4 - HIGH PERFORMANCE BRAKE FLUID (CLEAR)
Physical form: Liquid
Odour: Light
CAS No.: Mixture

Company Details

Manufacturer: Mohm Chemical Sdn Bhd
Address: No. 32, Jalan Temenggong, Off Jalan Tampoi,
81100 Johor Bahru, Johor, Malaysia.
Tel: + 60-7-3331222
Fax: + 60-7-3320545/ + 60-7-3337919

2. Hazards Identification

Hazard Pictogram



Signal Word: Warning

Classification

SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

Hazard Statement

H318- Causes serious eye damage.
H315- Causes skin irritation.

Precautionary Statement – Prevention

P280- Wear protective gloves. Wear eye or face protection.
P264- Wash hands thoroughly after handling.

Precautionary Statement – Response

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



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Precautionary Statement – Storage

Not applicable.

Precautionary Statement – Disposal

Not applicable.

3. Composition / Hazardous Components

<u>Chemical Name</u>	<u>CAS No.</u>	<u>WT%</u>
2-Aminoethanol	141-43-5	1 - 5

4. First-aid Measures

Eye Contact :	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.
Skin Contact :	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation :	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.
Ingestion :	Wash out mouth with water. 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. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

5. Fire Fighting Measures

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media:	None known.
Special firefighting procedure:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Hazardous decomposition:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
Specific hazards arising from the chemical:	No specific fire or explosion hazard.



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6. Accidental release measures

Methods for cleaning up:	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 via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
Environmental precautions:	Avoid dispersal of spilled 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).

7. Handling and Storage

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Avoid contact with used product. Do not reuse container.
Advice on general occupational hygiene:	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.
Conditions for safe storage including any incompatibilities:	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 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure control / Personal protection

Control parameters

Occupational exposure limits:	2-Aminoethanol ACGIH TLV (United States, 4/2014). STEL: 15 mg/m ³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 7.5 mg/m ³ 8 hours. TWA: 3 ppm 8 hours. NIOSH REL (United States, 10/2013). STEL: 15 mg/m ³ 15 minutes. STEL: 6 ppm 15 minutes. TWA: 8 mg/m ³ 10 hours.
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	TWA: 3 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 6 mg/m³ 8 hours. TWA: 3 ppm 8 hours.
Appropriate engineering controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
<u>Individual protection measures</u>	
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.
Eye/face protection:	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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand protection:	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.
Body protection:	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.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection:	Use a properly fitted, air-purifying or supplied air 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.

9. Physical and Chemical Properties

Form:	Liquid
Colour:	clear
Equilibrium Reflux Boiling Point :	
Dry °C (°F)	304 (580)
WET °C (°F)	193 (379)



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Kinematic Viscosity ,mm2/s @40°C	1550
Kinematic Viscosity, mm2/s @100°C	2

10. Stability and Reactivity

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability:	The product is stable.
Incompatibility (material to be avoid):	Oxidizing materials.
Conditions to be avoid:	Keep away from sources of ignition.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

Acute toxicity

Product/ingredient name : 2-Aminoethanol

Result : LD50 Oral

Species : Rat

Dose : 1720 mg/kg

Exposure : -

Carcinogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Name : 2-Aminoethanol

Category : Category 3

Route of exposure : Not applicable.

Target organs : Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

There is no data available.

Irritation/Corrosion

Product/ingredient name : 2-Aminoethanol

Result : Eyes - Severe irritant; Skin - Moderate irritant

Species : Rabbit ; Rabbit

Score : -; -

Exposure : 250 µg ; 505 mg

Observation : -; -

Sensitization

There is no data available.

Aspiration hazard

There is no data available.



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Potential acute health effects

Inhalation : No known significant effects or critical hazards.
Ingestion : Irritating to mouth, throat and stomach.
Skin contact : Causes skin irritation.
Eye contact : Causes serious eye damage.

Delayed and immediate effects and also chronic effects from short and long term exposure

No known significant effects or critical hazards.

Potential chronic health effects :

Teratogenicity : Suspected of damaging the unborn child..

Numerical measures of toxicity

Acute toxicity estimates

Route : Oral; Dermal; Inhalation (vapors)
ATE value : 86000 mg/kg; 55000 mg/kg; 550 mg/L

12. Ecological Information

Toxicity

Product/ingredient name : 2-Aminoethanol

Result : Acute EC50 8.42 mg/L Fresh water; Acute LC50 >100000 µg/l Marine water
Acute LC50 170000 µg/l Fresh water

Species : Algae - Desmodesmus subspicatus; Crustaceans - Crangon crangon - Adult;
Fish - Carassius auratus

Exposure : 72 hours; 48 hours; 96 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

Product/ingredient name : 2-Aminoethanol

LogP_{ow} : -1.31

BCF : -

Potential : low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : There is no data available.

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

13. Disposal Considerations

Waste Disposal

Method:

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or



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landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport Information

DOT shipping name : non-regulated
DOT label : not applicable
DOT identification No.: not applicable
Supplemental section 12 information:
IMDG, IATA/ICAO, TDG – non – regulated

15. Regulatory Information

U.S. Federal regulations :

United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 311: Trisodium orthophosphate; Sodium hydroxide

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed
Clean Air Act Section 602 Class I Substances : Not listed
Clean Air Act Section 602 Class II Substances : Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed
DEA List I Chemicals (Precursor Chemicals) : Not listed

16. Other Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use and determine whether they are appropriate.

*** End Of SDS ***

