

SAFETY DATA SHEET

Astemo

Mobility Beyond

SAFETY DATA SHEET BRAKE FLUID (DOT-3)

Version 1.2 Revision Date: Apr. 1, 2025 SDS Number: AF-SDS-064 Date of last issue: Apr. 1, 2025
Date of first issue: Oct. 17, 2023

SECTION 1. IDENTIFICATION

Product name : BRAKE FLUID (DOT-3)
Product code :

Manufacturer or supplier's details

Company name of supplier : Astemo Asia Ltd.
Address : 12th Floor UBC II Bldg, 591, Sukhumvit Road, North Klongton, Wattana, BANGKOK 10110, Thailand
Customer Care : af_thbt@astemo.com
Contact : +66-61-3848262

Other means of identification:

Synonyms : None
Chemical family : Brake fluid
CAS number : NA

Recommended use of the chemical and restrictions on use

Recommended use : Intended to use in hydraulic braking systems and clutches, according to recommendations of vehicle manufacturers.

Suitable for use in industrial sector : Automotive

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance	Liquid
Color	Pale yellow/No color
Odor	Characteristic

Classification of the Product:

Flammable Liquids	Not classified
Acute Toxicity, Oral	Category 5
Serious eye damage/eye irritation	Category 2
Environmental Hazards	Not classified

Label Elements:



Signal Word: **WARNING**

Hazard Statement

H303	May be harmful if swallowed
H319	Causes serious eye irritation.

Precautionary Statement - Prevention

P280	Wear protective gloves/protective clothing/eye protection/face protection
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Precautionary Statement - Response

P312	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
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 advice/attention.

Other Hazards

There is no additional information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance:

Composition	Identifier	%
SIDDHI BF DOT 3	Proprietary Formulation	>99.5

Mixtures:

This product does not fall in the criteria of a mixture according to United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

SECTION 4. FIRST AID MEASURES

Description of first aid measures

- General advice** : Take off immediately all contaminated clothing & get under the shower if spilled over body.
- Inhalation** : Move to fresh air, seek medical attention in case of discomfort.
- Skin contact** : Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.
- Eyes contact** : Flush eyes with water with eyelids held open and seek medical attention
- Ingestion** : Do NOT induce vomiting, rinse mouth with water and seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms : The most important known symptoms and effects are described in the sections: 2 and 11.

Indication of any immediate medical attention and special treatment needed

Seek medical help and treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media : Dry chemical, carbon dioxide, water fog or fine spray.

Unsuitable Extinguishing Media : None known

Special Hazards Arising From the Substance or Mixture

Avoid contamination with oxidizing agents i.e. nitrates etc. as ignition may result.

Special Protective Equipment and Precautions for Firefighters

Firefighters must wear positive-pressure, self-contained breathing apparatus (SCBA) and suitable clothing. Spray water on fire-exposed containers to reduce risk of rupture.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Isolate the accidental-release area and ensure no unauthorized entry. Do not walk on the spilled area. Ensure adequate ventilation in the enclosed area. Eliminate all ignition sources around the affected area. Use adequate protective equipment, during all such measures meant to deal with accidental release.

Environmental Precautions

Prevent spillage from entering into soil, sewers, drainage and groundwater.

Methods and Materials for Containment and Clean Up

For small amounts : Collect the spillage through an appropriate absorbent material.
Dispose-off the collected spillage, in accordance with local regulations.
Clean the affected area with water.

For large amounts : Pump-off the spillage and collect it in suitable containers.
Dispose-off the collected spillage, in accordance with local regulations.

Clean the affected area with water.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

- Keep containers tightly closed when not in use.
- Do not eat, drink, or smoke in working area.
- Take measures to prevent the build-up of electrostatic charge.
- Avoid contact with eyes and skin
- Use good safety and industrial hygiene practices.
- Wash thoroughly after handling.

Conditions for Safe Storage, Including any Incompatibilities

Storage : Store materials in a cool & dry place.

Incompatibilities : Oxidizing materials, strong alkalis and acids, Peroxides, Anhydrides etc.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Limits/Guidelines

Exposure Controls

Engineering Controls : Adequate ventilation systems as needed to control & maintain concentrations of Air-borne contaminants below applicable exposure limits must be put in place. Flame- proof devices, sensors & auto alarm systems to be installed.

Eye/Face Protection : Safety glasses with side shields, Face shields etc.to be used

Respiratory Protection : Appropriate respiratory protection should be needed.

Skin/Hand Protection : Wear suitable working clothing; chemically resistant protective gloves to be used.

Ingestion : Do not eat, drink or smoke in work area. Wash hands before eating or smoking.

General safety and hygiene measures:

Wear protective clothing & equipment as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practices. Wash contaminated clothing immediately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (Physical State , Colour etc.)	Crimson red
Odour:	Characteristic
Odour threshold:	No Data Available
pH value:	7 – 11.5
Melting Point/Freezing point: (°C)	NA
Boiling point: (°C)	205 Min
Flash point: (°C)	> 135
Evaporation Rate (BuOAc = 1)	NA
Flammability	Not Applicable
Vapour Density: (Air = 1.0)	NA
Specific gravity: (29 °C) kg/ltr	1.00-1.150
Solubility in water	Insoluble
Auto ignition Temperature (°C)	NA

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Remains Stable under recommended Storage Conditions.

Chemical stability

Remains Stable under recommended Storage Conditions.

Possibility of hazardous reactions

Not Known

Conditions to avoid

Direct Sunlight, High Temperature. Open flame, Overheating, Heat. Sparks etc. must be avoided.

Incompatible materials

It is incompatible with Oxidizing Materials, Strong Alkalis and Acids, Peroxides, Anhydrides etc.

SECTION 11. TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation : Mild skin irritation found (Skin :
Rabbit) **Serious Eye Damage/Irritation** : Moderate Eye Irritation - 24h
(Eyes : Rabbit) **Respiratory or Skin Sensitization** : Does not cause skin
sensitization.

Germ Cell Mutagenicity : No data available

Carcinogenicity : No data available

Reproductive Toxicity : May cause congenital malformation in the fetus. Presumed human reproductive toxicant.
May cause reproductive disorders.

Specific Target Organ Toxicity (single exposure) : No data
available **Specific Target Organ Toxicity (repeated exposure)** :No
data available **Aspiration Hazard** :No data available

Potential Health Effects

Inhalation Irritant effects, headache, vertigo, dizziness, breathing difficulties

Skin Slightly irritant

Eye Causes slight to moderate irritation

Ingestion Gastrointestinal complaints, nausea, vomiting, diarrhea

SECTION 12. ECOLOGICAL INFORMATION

Eco toxicity

Persistence and Degradability: NA
Other Adverse Effects : No data
available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Product Waste

- Do not dump into any sewers, on the ground, or into any body of water.
- All disposal methods must be in compliance with Federal, State/Provincial, and local regulations.

Packaging Waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14. REGULATORY INFORMATION

International Inventories

United States: All components of this product are listed on the TSCA inventory.

Australia: All components of this product are listed on the

AICS. **China:** All components of this product are listed on the

IECSC. **Japan:** All components of this product listed on the

ENCS.

SECTION 15. OTHER INFORMATION

Disclaimer/Statement of Liability

This information is only concerns the above mentioned product as supplied and may not be valid if used with other products or in any process. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.