

# SAFETY DATA SHEET

## SAFETY DATA SHEET BRAKE FLUID (DOT-3)

Version 1.1      Revision Date: -      SDS Number: AF-SDS-064      Date of last issue: May 22, 2024  
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### SECTION 1. IDENTIFICATION

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

#### Manufacturer or supplier's details

Company name of supplier : Hitachi Astemo Bangkok Trading Ltd.  
Address : 12th Floor UBC II Bldg, 591, Sukhumvit Road, North Klongton, Wattana,  
BANGKOK 10110, Thailand  
Customer Care : af\_thbt@hitachiastemo.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**

<b>H303</b>	May be harmful if swallowed
<b>H319</b>	Causes serious eye irritation.

**Precautionary Statement - Prevention**

<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection
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**Precautionary Statement - Response**

<b>P312</b>	Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P337+P313</b>	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.