



SHIELD BRAKE FLUID

Revision Number: 3

Revision Date: 13/10/19

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SHIELD BRAKE FLUID

Product Use: BRAKE FLUID

Company Identification

Kuwait Dana Lubes Company

Postal Box: 9150

Ahmadi - Kuwait - 61001.

Emergency Telephone Number

(965) 23260723

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Product definition: Mixture

Classification as per regulation (EC) No. 1272/2008 [CLP/GHS]: Aspiration toxicant: Category 1

GHS Label Elements



Signal Word: Danger!

Precautionary Statements

Response: IF SWALLOWED: Immediately call a poison center or doctor/physician. Do NOT induce vomiting.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with applicable local/regional/national/international regulations.



Emergency Overview

Color: Straw. [Light]
Physical state: Liquid. [Fluid]
Odor: Mild hydrocarbon.
Hazard statements: This substance may be fatal if swallowed and enters airways, causes damage to organs through prolonged or repeated exposure.

Precautions: When handling this substance: do not breathe the dust, fume, gas, mist, vapors or spray; wear protective gloves and/or clothing, and eye and/or face protection.

OSHA/HCS status: Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Potential acute health effects

Eye: Irritates the eyes- can cause irritation or serious damage to the eye.
Skin: Irritates the skin- Can cause irritation or serious damage to the skin
Inhalation: Inhalation of vapor or oil mist from this product can be fatal for humans and other mammals.
Ingestion: can cause serious damage if ingested.
Birth Defects: Can cause harm to the developed child including birth defects, low birth weight and biological or behavioral problems that appear as child grows.
Cancer: May cause or increase the risk of cancer.

ENVIRONMENTAL HAZARDS

May cause long-term adverse effects in the aquatic environment.

NFPA Hazard ID: Health: 0 Flammability: 1 Reactivity: 0

HMIS Hazard ID: Health: 0 Flammability: 1 Reactivity: 0

3. COMPOSITION/INFORMATION ON INGREDIENTS

S.NO	COMPOSITION	CAS NO	AMOUNT
1.	DIETHYLENE GLYCOL	1114-66	40%-60%
2.	TRIETHYLENE GLYCOL BUTYL ETHER	1432-26	30%-60%
3.	ADDITIVES	62601-60-9	2%-6%



There are no additional items present the supplier has knowledge of and in the concentrations applicable classified as hazardous to health or the environment or have been assigned a workplace exposure limit and hence require reporting in this section.

4. FIRST AID MEASURES

EYE:	Flush immediately with water for at least 15 minutes. Get immediate medical attention.
SKIN:	Wash with soap and water. Remove contaminated clothing. Get medical attention if irritation develops.
INGESTION:	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
INHALATION:	Remove exposed person to fresh air and provide oxygen if breathing is difficult. Get medical attention

5. FIRE FIGHTING MEASURES

Flash point (COC):	>190°C
Auto Ignition:	NDA
Upper Flammable Limit:	NA
Lower Flammable Limit:	NA
Extinguishing Media:	CO ₂ , Dry Chemical, Foam, Water Fog
Firefighting procedures:	Recommend wearing self-contained breathing apparatus. Water may cause splattering.
Combustion products:	Normal combustion forms carbon dioxide, water vapor, and may produce oxides of Sulfur and Nitrogen. Incomplete combustion may produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

Environmental protection:	The material is not expected to be harmful to aquatic organisms. Stop the source of leak or release. Remove with vacuum trucks or pump to storage salvage vessels. Soak up residue with an absorbent such as Clay, Sand or other suitable materials.
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7. HANDLING AND STORAGE

Handling Procedure:	Keep containers closed when not in use. Handling
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Storage Procedure: temperatures should not exceed 70°C.
Keep containers in cool and Dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE: Eye protection is required.
Recommended chemical goggles or face shield.

SKIN: Protective clothing and gloves are normally required.

VENTILATION: Proper ventilation is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Boiling Point: NA

Melting Point: NA

Freezing Point: NA

Solubility in Water: soluble

Vapor Pressure: <0.1mmHg

Vapor Density (Air =1): NA

pH: 8-9

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: May react with strong oxidizing agents, such as Chlorates, Nitrates, Peroxides, etc.

Hazardous Polymerization: Polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Basis for assessment: Information given is based on data on the components and the toxicology of similar products. Unless indicated otherwise, the data presented is representative of the product as a whole, rather than for individual component(s).

Information on likely routes of exposure:



Skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Acute Toxicity

Acute oral toxicity: Can cause serious damage
Acute inhalation toxicity: Can be fatal on inhalation for humans and other mammals.
Acute dermal toxicity: Can cause serious damage at prolonged contact

Skin corrosion/irritation:

Can cause irritation or serious damage to the skin.

Serious eye damage/eye irritation:

Can cause irritating to the eye or serious damage.

Respiratory or skin sensitization

Substance may cause inflammation or other adverse reaction in the respiratory system.

Aspiration Hazards

Category: 1.
Toxicity: An aspiration hazard as per characteristics and properties.

Germ cell mutagenicity

OSHA HCS 2012-Classification criteria not met.

Carcinogenicity

Can cause cancer or increase the risk of cancer.

Reproductive toxicity

Can cause harm to the developing child including birth defects.

TOST - Single exposure

Based on available data, the classification criteria are not met.

TOST - Repeated exposure

Based on available data, the classification criteria are not met.



Further information

Used oils may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and the environment on disposal. ALL used oil should be handled with caution and skin contact avoided as far as possible.

12. ECOLOGICAL INFORMATION

Environmental impact:

This material is not expected to be readily biodegradable.

Eco toxicity:

This material is not expected to be harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Material, if discarded, not expected to be characteristic hazardous waste. Disposal should be in compliance with federal, state, and local laws.

14. TRANSPORT INFORMATION

Department of Transportation classification:

Not hazardous by D.O.T. regulations.

DOT Proper Shipping Name:

Not Applicable

Other Requirements:

Not Applicable

15. REGULATORY INFORMATION

SARA 311 Categories:

- | | |
|---------------------------------------|----|
| 1. Immediate (Acute) Health Effects: | NO |
| 2. Delayed (Chronic) Health Effects: | NO |
| 3. Fire Hazard: | NO |
| 4. Sudden Release of Pressure Hazard: | NO |
| 5. Reactivity Hazard: | NO |

STATE REGULATORY INFORMATION:

Based on information available this product does not contain any chemical substance regulated by a specific state law.

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; reactivity 0;

HMIS RATINGS: Health 1; Flammability 1; reactivity 0;

(0- Least, 1- Slight, 2- Moderate, 3- High, 4- Extreme, PPE- Personal)

Revision statement: This is a new Material Safety Data Sheet.

ABBREVIATION THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

NDA: No Data Available
CAS: Chemical Abstract Service Number
NFPA: National Fire Protection Association
NA: Not Applicable
