

Engine Flush Cleaner

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 02/08/2016 Revision date: 11/02/2016 Supersedes: 09/26/2016 Version: 1.5

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Engine Flush
Product code : 4031

Other means of identification : 4030, 4030-4, 4030-55, 4031

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Engine Flushing Oil

Recommended use : Lubricants, Greases and Release Products

1.3. Details of the supplier of the safety data sheet

Bardahl Manufacturing Corporation 1400 NW 52nd Street

Seattle, WA 98107 T 206-783-4851 - F 206-784-3219

jackie.leung@bardahl.com - www.bardahl.com

1.4. Emergency telephone number

Emergency number : 800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Aspiration hazard, Category 1 May be fatal if swallowed and enters airways

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GH508

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : May be fatal if swallowed and enters airways

Precautionary statements (GHS-US) : If swallowed: Immediately call a POISON CENTER

Do NOT induce vomiting

Store locked up

Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Mineral oil	(CAS No) 64742-53-6	>= 80	Asp. Tox. 1, H304

11/02/2016 EN (English) Page 1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after ingestion : Risk of lung oedema.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Handling temperature : Not determined

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products : Oxidizing agent. Storage temperature : Not Determined

11/02/2016 EN (English) 2/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Engine Flush		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³
NIOSH	NIOSH REL (STEL) (mg/m³)	10 mg/m³

Mineral oil (64742-53-6)

Not applicable

8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves. Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : amber Odour : characteristic Odour threshold : No data available : No data available рΗ Melting point : Not applicable Freezing point : No data available : No data available Boiling point : 140 °C PMCC typical Flash point Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Not applicable. Vapour pressure : No data available : No data available Relative vapour density at 20 °C Relative density : No data available Density : 0.878 g/cm3 typical Solubility : No data available : No data available Log Pow : No data available Auto-ignition temperature Decomposition temperature : No data available

Viscosity, kinematic

Viscosity, kinematic

Viscosity, dynamic

Explosive limits

Explosive properties

Oxidising properties

No data available

No data available

No data available

No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

11/02/2016 EN (English) 3/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. **Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agent.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified : Not classified Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated

exposure)

Aspiration hazard : May be fatal if swallowed and enters airways.

Symptoms/injuries after ingestion : Risk of lung oedema.

SECTION 12: Ecological information

12.1. **Toxicity**

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Engine Flush		
LC50 fish 1	> 100 mg/l Flathead Minnow	
EC50 Daphnia 1	> 10000 mg/l Daphina magna	
ErC50 (algae)	> 100 mg/l 72 hr Green algae	

12.2. Persistence and degradability

Engine Flush	
Persistence and degradability	Contains non readily biodegradable component(s).

12.3. **Bioaccumulative potential**

Engine Flush	
Bioaccumulative potential	No test data of component(s) available.

Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the global warming : No known effects from this product. **GWPmix** comment : No known effects from this product.

11/02/2016 EN (English) 4/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

TDG

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Engine Flush

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Mineral oil (64742-53-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

Revision date : 11/02/2016

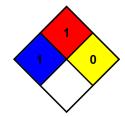
Full text of H-statements:

H304 May be fatal if swallowed and enters airways

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



11/02/2016 EN (English) 5/6

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : E

B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

11/02/2016 EN (English) 6/6