



1. Chemical product and company identification

Product name Hysol MB 50
MSDS # 465450
Historic MSDS #: 03105-BE
Code 465450-US03
Product use Coolant lubricant
Manufacturer Castrol Industrial North America, Inc.
 150 W. Warrenville Road
 Naperville, IL 60563
Supplier Castrol Industrial North America, Inc.
 150 W. Warrenville Road
 Naperville, IL 60563
 Product Information: 1-800-621-2661
EMERGENCY SPILL INFORMATION: 1 (800) 424-9300 CHEMTREC (USA)

2. Composition/information on ingredients

Ingredient name	CAS #	%
Amine neutralised phosphoric acid esters	Not available.	1 - 5
Dialkylamine amine fatty acid salt	Not available.	1 - 5
Alkanolamine fatty acid salt	Not available.	5 - 10
Isopropanolamine	78-96-6	1 - 5
Triethanolamine	102-71-6	1 - 5
amines, tallow alkyl, ethoxylated	61791-26-2	1 - 5
Base oil - highly refined	64742-52-5 &/or 64742-53-6	50 - 55

3. Hazards identification

Physical state Liquid.
Color Amber. Yellow. [Light]
Emergency overview WARNING!
 HARMFUL IF SWALLOWED.
 CAUSES EYE IRRITATION.
 CAUSES SKIN IRRITATION.
 MAY CAUSE RESPIRATORY TRACT IRRITATION.
 Do not ingest. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Use only with adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Keep container closed.

Routes of entry Dermal contact. Eye contact. Inhalation. Ingestion.

Potential health effects

Eyes Causes eye irritation.

Skin Causes skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Inhalation	May cause respiratory tract irritation.
Ingestion	Harmful if swallowed.
Medical conditions aggravated by over-exposure	None identified.

See toxicological information (section 11).

4. First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.
Skin contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	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 appear.

5. Fire-fighting measures

Flammability of the product	May be combustible at high temperature.
Flash point	Water content interferes with flash point determination.
Products of combustion	These products are carbon oxides nitrogen oxides phosphorus oxides
Unusual fire/explosion hazards	Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat, shocks and mechanical impacts and oxidizing materials.
Fire-fighting media and instructions	In case of fire, use water fog, foam, dry chemicals, or carbon dioxide.
Protective clothing (fire)	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (See Section: "Exposure controls/personal protection"). Follow all fire fighting procedures (See Section: "Fire-fighting measures").
Environmental precautions and clean-up methods	If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Avoid contact of spilled material with soil and prevent runoff entering surface waterways. See Section 13 for Waste Disposal Information.
Personal protection in case of a large spill	Chemical splash goggles. Chemical resistant protective suit. Boots. Chemical resistant gloves. Vapor respirator or a self-contained breathing apparatus. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product. CAUTION: The protection provided by air-purifying respirators is limited. Use a positive pressure air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are not known, or if concentrations exceed the protection limits of air-purifying respirator.

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7. Handling and storage

Handling

Do not ingest. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Use only with adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. DO NOT ADD NITRITES TO THIS FLUID.

Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

8. Exposure controls/personal protection

Occupational exposure limits

Ingredient name

Occupational exposure limits

Amine neutralised phosphoric acid esters
Dialkylamine amine fatty acid salt
Alkanolamine fatty acid salt
Isopropanolamine
Triethanolamine

None assigned.
None assigned.
None assigned.
None assigned.
ACGIH TLV (United States, 1/2006).
TWA: 5 mg/m³ 8 hour(s).

amines, tallow alkyl, ethoxylated
Base oil - highly refined

None assigned.
ACGIH (United States).
STEL: 10 mg/m³ 15 minute(s). Form: Oil mist, mineral
TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral
OSHA (United States).
TWA: 5 mg/m³ 8 hour(s). Form: Oil mist, mineral

Some states may enforce more stringent exposure limits.

Control Measures

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable.

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.

Personal protection

Eyes

Avoid contact with eyes. Safety glasses with side shields or chemical goggles.

Skin and body

Avoid contact with skin and clothing. Wear suitable protective clothing.

Respiratory

Use only with adequate ventilation.

Hands

Wear suitable gloves.



Consult local authorities for acceptable exposure limits.

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9. Physical and chemical properties

Physical state	Liquid.
pH	9.5 to 9.9 at 5%
Color	Amber. Yellow. [Light]
Heat of combustion	Not available.
Specific gravity	0.94 to 0.96
Density	950 kg/m ³ (0.95 g/cm ³) at 15.6°C
Solubility	Easily soluble in cold water and hot water.
Dispersibility properties	Easily dispersed in hot water.

10. Stability and reactivity

Stability and reactivity	The product is stable.
Conditions to avoid	Not available.
Incompatibility with various substances	Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	Will not occur.

11. Toxicological information

Chronic toxicity

Carcinogenic effects

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

Mutagenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

Reproductive effects

No component of this product at levels greater than or equal to 0.1% is classified by established regulatory criteria as a reproductive toxin.

Teratogenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

Other chronic toxicity data

Alkanolamine: This product contains an alkanolamine. In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens. Therefore, no nitrites or related nitrosating agents should be added to such compositions.
Contains material that may cause target organ damage, based on animal data. kidneys

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

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13. Disposal considerations

Waste information

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Consult your local or regional authorities.

14. Transport information

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

15. Regulatory information

U.S. Federal regulations

United States inventory (TSCA 8b): All components are listed or exempted.

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Hysol MB 50: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

SARA 313

Form R - Reporting requirements

This product does not contain any hazardous ingredients at or above regulated thresholds.

Supplier notification

This product does not contain any hazardous ingredients at or above regulated thresholds.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: Diethanolamine; 2,2'-Iminodiethanol: 100 lbs. (45.36 kg); Aniline: 5000 lbs. (2268 kg);

State regulations

Massachusetts Substances

Massachusetts RTK: The following components are listed: 1-AMINO-2-PROPANOL; TRIETHANOLAMINE

New Jersey Hazardous Substances

New Jersey Hazardous Substances: None of the components are listed.

Pennsylvania RTK Hazardous Substances

Pennsylvania RTK: The following components are listed: 2-PROPANOL, 1-AMINO-; ETHANOL, 2,2',2"-NITRILOTRIS-

WARNING: This product contains a chemical known to the State of California to cause cancer. Aniline

Inventories

Canada inventory: All components are listed or exempted.

Europe inventory: All components are listed or exempted.

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): At least one component is not listed.

Japan inventory (ENCS): At least one component is not listed.

Korea inventory (KECI): All components are listed or exempted.

Philippines inventory (PICCS): Not determined.

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16. Other information

Label requirements

WARNING!

HARMFUL IF SWALLOWED.
CAUSES EYE IRRITATION.
CAUSES SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.

HMIS® Rating :

Health * 1
Flammability 1
Physical Hazard 0
Personal protection B

National Fire
Protection
Association
(U.S.A.)



History

Date of issue 06/07/2007.

Date of previous issue 05/15/2007.

Prepared by Product Stewardship

Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The BP Group shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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