



1. Chemical product and company identification

Product name HYSOL MB 20
MSDS# 03094-BM
Code 03094-BM
Product use Lubricant
Manufacturer Castrol Industrial North America, Inc.
 150 W. Warrenville Road
 Naperville, IL 60563
 Product Information.: 1-800-621-2661
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 #	% by weight	Exposure limits
Distillates (petroleum), hydrotreated, heavy paraffinic	64742-54-7	10-15	ACGIH (United States). STEL: 10 mg/m ³ 15 minute(s). Form: Mist TWA: 5 mg/m ³ 8 hour(s). Form: Mist OSHA (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	10-15	ACGIH (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist STEL: 10 mg/m ³ 15 minute(s). Form: Mist OSHA (United States). TWA: 5 mg/m ³ 8 hour(s). Form: Mist
Proprietary Amine	NJTS# 00700101 001-5025P	5-10	None assigned.
Proprietary Glycol Ether	NJTS# 00700101001 -5024P	5-10	None assigned.
boric acid	10043-35-3	1-5	None assigned.

3. Hazards identification

Physical state	Liquid.
Color	Clear. to Hazy., Amber. Color
Emergency overview	WARNING! CAUSES EYE IRRITATION. CAUSES SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. Do not ingest. Avoid contact with skin and clothing. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.
Routes of entry	Skin Contact. Eye contact. Inhalation. Ingestion.
Potential Health Effects	
Eyes	Causes eye irritation.
Skin	Causes skin irritation.
Inhalation	No significant health hazards identified. May cause respiratory tract irritation.
Ingestion	Ingestion may cause gastrointestinal irritation and diarrhea.
Medical conditions aggravated by overexposure:	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	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing 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 if irritation develops.
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.
Products of combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...). Some metallic oxides.
Unusual fire/explosion hazards	This material is not explosive as defined by established regulatory criteria. Non-explosive in presence of open flames, sparks and static discharge, of shocks, of heat.
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.

Product Name HYSOL MB 20	MSDS# 03094-BM	Page: 2/7	
Version 2	Date of issue 07/27/2004.	Format US	Language ENGLISH
	Build 2.0.6		(ENGLISH)

Special remarks on fire hazards No additional remark.

Special remarks on explosion hazards No additional remark.

6. Accidental release measures

Personal Precautions Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

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. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

Personal protection in case of a large spill Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

7. Handling and storage

Handling Do not ingest. Avoid contact with skin and clothing. Avoid contact with eyes. 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. Wash thoroughly after handling.

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

Distillates (petroleum), hydrotreated, heavy paraffinic

Occupational exposure limits

ACGIH (United States).

STEL: 10 mg/m³ 15 minute(s). Form: Mist

TWA: 5 mg/m³ 8 hour(s). Form: Mist

OSHA (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Distillates (petroleum), solvent-dewaxed heavy paraffinic

ACGIH (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

STEL: 10 mg/m³ 15 minute(s). Form: Mist

OSHA (United States).

TWA: 5 mg/m³ 8 hour(s). Form: Mist

Proprietary Amine
Proprietary Glycol Ether
boric acid

None assigned.

None assigned.

None assigned.

Control Measures

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors 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 after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Product Name HYSOL MB 20

MSDS#

03094-BM

Page: 3/7

Version 2

Date of issue 07/27/2004.

Format US

Language ENGLISH

Build 2.0.6

(ENGLISH)

Personal protection

Eyes	Avoid contact with eyes. Safety glasses with side shields.
Skin and Body	Avoid contact with skin and clothing. Wear suitable protective clothing.
Respiratory	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.
Hands	Wear suitable gloves.



Consult local authorities for acceptable exposure limits.

9. Physical and chemical properties

Physical state	Liquid.
pH	8.8 to 9.3 at 5%
Odor	Mild. Chemical. Odor
Color	Clear. to Hazy., Amber. Color
Specific Gravity	0.985 to 1.005
Solubility	Easily soluble in cold water, hot water.
Dispersion properties	Is not dispersed in cold water, hot water.

10. Stability and reactivity

Stability and Reactivity	The product is stable.
Conditions to avoid	Not available.
Incompatibility with various substances	Strong oxidizing materials
Hazardous Decomposition Products	Not available.
Hazardous polymerization	Not available.

11. Toxicological information

Ingredient name	Test	Result	Route	Species
Proprietary Amine	LD50	373 mg/kg	Oral	Rat
	LD50	500 mg/kg	Oral	Mouse

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).

Product Name HYSOL MB 20

MSDS#

03094-BM

Page: 4/7

Version 2

Date of issue 07/27/2004.

Format US

Language ENGLISH

Build 2.0.6

(ENGLISH)

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 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

Harmful if a large amount is swallowed. May cause damage to the following organs: liver and kidneys.

Can cause CNS depression.

Other information

Harmful if a large amount is swallowed. May cause damage to the following organs: Liver. Kidneys.

Can cause CNS depression.

12. Ecological information

Ecotoxicity

No testing has been performed by the manufacturer.

Persistence/degradability

13. Disposal considerations

Waste information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

RCRA Waste Code(s)

USED OIL

Consult your local or regional authorities.

14. Transport information

International transport regulations

Regulatory Information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	Not available.	Not available.	Not available.		Not available.
TDG Classification	Not regulated.	Not available.	Not available.	Not available.		Not available.
IMDG Classification	Not available.	Not available.	Not available.	Not available.		Not available.
IATA Classification	Not available.	Not available.	Not available.	Not available.		Not available.

15. Regulatory information

U.S. Federal regulations

US INVENTORY (TSCA): In compliance.

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

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Proprietary Glycol Ether	NJTS# 00700101001 -5024P	5
Supplier notification	Proprietary Glycol Ether	NJTS# 00700101001 -5024P	5

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: Proprietary Glycol Ether: 1 lbs. (0.4536 kg);

Trace Quantities: Dioxane: 100 lbs. (45.36 kg); Ethylene oxide: 10 lbs. (4.536 kg); Maleic anhydride: 5000 lbs. (2268 kg); Aniline: 5000 lbs. (2268 kg);
Please contact your supplier to get the information.

State regulations

Massachusetts RTK:Proprietary Amine; 1,1'-Iminodipropan-2-ol; 1H-benzotriazole
New Jersey:Proprietary Amine; Proprietary Glycol Ether
Pennsylvania RTK:Proprietary Amine (generic environmental hazard); Proprietary Glycol Ether (environmental hazard, generic environmental hazard); 1,1'-Iminodipropan-2-ol (generic environmental hazard)

California Prop 65: WARNING! This product contains trace amounts of the following chemicals which the State of California has found to cause cancer, birth defects or other reproductive harm.:
Dioxane; Ethylene oxide; Aniline

Inventories

AUSTRALIAN INVENTORY (AICS): Not listed.

CANADA INVENTORY (DSL): Not listed.

CHINA INVENTORY (IECS): Not listed.

EC INVENTORY (EINECS/ELINCS): Not listed.

JAPAN INVENTORY (ENCS): Not listed.

KOREA INVENTORY (ECL): Not listed.

PHILIPPINE INVENTORY (PICCS): Not listed.

16. Other information

Label Requirements

WARNING!

CAUSES EYE IRRITATION.

CAUSES SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

Product Name
HYSOL MB 20

MSDS#

03094-BM

Page: 6/7

Version 2

Date of issue 07/27/2004.

Format US

Language ENGLISH

Build 2.0.6

(ENGLISH)

HMIS® Rating :

Health 2
 Flammability 1
 Physical Hazard 0
 Personal protection B

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

**Other special considerations**

PETROLEUM OIL: STEL = 10 mg/M3. Using terminology of the International Agency for Research on Cancer (IARC), the petroleum distillates listed in Section II are classified by the supplier as severely processed. Not all those listed in Section II may be present. The supplier has stated that these distillates do not require a carcinogen label as defined by OSHA 29 CFR 1910.1200.

History

Date of issue 07/27/2004.
Date of previous issue 05/03/2004.
Prepared by Product Stewardship

Notice to reader

NOTICE : This Material Safety Data Sheet is based upon data considered to be accurate at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case. We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

Product Name HYSOL MB 20	MSDS# 03094-BM	Page: 7/7
Version 2	Date of issue 07/27/2004.	Format US
		Language ENGLISH (ENGLISH)
	Build 2.0.6	