

MB VR® CONCENTRATE

Version 1.4

06/29/2006

1. PRODUCT AND COMPANY INFORMATION

Company : **BASF Corporation**
23700 Chagrin Blvd
BEACHWOOD, OH 44122

Telephone : 216-839-7500

Emergency telephone number : (800) 424-9300
(703) 527-3887 (Outside Continental US)

Product name : MB VR® CONCENTRATE

MSDS ID No. : 10173

TSCA Inventory : All components of this product are included, or are exempt from inclusion, in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Canadian DSL : All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List (DSL).

2. HAZARDOUS INGREDIENTS

<u>Chemical</u>	<u>CAS No.</u>	<u>TLV</u>	<u>STEL</u>	<u>PEL</u>	<u>CEIL</u>	<u>Weight %</u>
SODIUM HYDROXIDE	1310-73-2	N.E.	N.E.	2 mg/m3	2 mg/m3	1.00 - 5.00 %

3. HAZARDS IDENTIFICATION

HMIS® Rating	HEALTH	FLAMMABILITY	PHYSICAL HAZARD
	2	0	0

WHMIS Class : D2B
E

Effects of Overexposure

Inhalation : Harmful by inhalation.

Skin : Can cause severe irritation and possible burns.

Eyes : Corrosive. Can cause severe irritation, redness, tearing and blurred vision and possible burns and corneal injury.

Ingestion : Corrosive! Can cause severe and permanent damage to mouth, throat and stomach.

Chronic exposure : Existing respiratory or skin ailments may be aggravated by exposure.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
SODIUM HYDROXIDE	N.E.	N.E.	N.E.	N.E.

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4. FIRST AID MEASURES

- Eye contact : Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin contact : Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion : Do not induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.
- Inhalation : Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

- Flash point : not applicable
- Autoignition temperature : not applicable
- Lower explosion limit : not applicable
- Upper explosion limit : not applicable
- Suitable extinguishing media : Use extinguishing agent suitable for type of surrounding fire.
- Special Fire-fighting Procedures : As in any fire, wear pressure demand self-contained breathing apparatus (NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

- Methods for cleaning up : Evacuate personnel to safe areas. Wear personal protective equipment (refer to section 8). Contain spill immediately. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

- Handling : Keep out of reach of children. For personal protection see section 8.
- Storage : Store in a place accessible by authorized persons only. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Eye protection : When handling product, wear protective equipment such as:
safety glasses with side-shields

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	face-shield goggles
Hand protection	: Wear Chemically resistant gloves.
Body Protection	: Wear as appropriate: Chemically resistant clothes preventive skin protection
Respiratory protection	: In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use NIOSH approved respirators.
Hygienic Practices	: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	: Local exhaust ventilation can be necessary to control any air contaminants to within their TLVs during the use of this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color	: dark brown
Physical State	: liquid
Odor	: soapy
pH	: 12.2 - 13.5
Odor Threshold	: no data available
Vapor Pressure	: no data available
Vapor Density	: Heavier than air
Boiling point/range	: ca.214 °F (101 °C)
Freeze Point	: 28 °F (-2 °C)
Water solubility	: completely soluble
Specific Gravity	: 1.06
Viscosity	: no data available
Evaporation rate	: no data available
Partition coefficient (n-octanol/water)	: no data available
VOC Concentration as applied (less water and exempt solvents)	: 0 g/l

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10. STABILITY AND REACTIVITY

- Stability : Stable under recommended storage conditions.
- Conditions to avoid : no data available
- Materials to avoid : Strong mineral acids, oxidizing agents, aluminum, galvanized metals.
- Hazardous decomposition products : Hydrogen in contact with aluminum or zinc.
After evaporation of water, combustion will generate:
nitrogen oxides (NOx)
carbon oxides
- Hazardous polymerization : Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>	<u>Exposure time</u>
	LC50	no data available		
<u>Component</u>				
SODIUM HYDROXIDE	LC50	no data available		

Acute oral toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Oral)	no data available	
<u>Component</u>			
SODIUM HYDROXIDE	LD50 (Oral)	11,300 mg/kg	

Acute dermal toxicity

<u>Product</u>	<u>Type</u>	<u>Value</u>	<u>Species</u>
	LD50 (Dermal)	no data available	
<u>Component</u>			
SODIUM HYDROXIDE	LD50 (Dermal)	no data available	

12. ECOLOGICAL INFORMATION

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Ecotoxicological Information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal of waste material in manner which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

DOT	: Proper shipping name	Not regulated
IATA	: Proper shipping name	Not regulated

15. REGULATORY INFORMATION

SARA 311/312 (RTK)

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendments and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE (ACUTE) HEALTH HAZARD

SARA 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Weight %</u>	<u>CAS No.</u>	<u>Chemical Name</u>
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This product contains no chemicals subject to the SARA 313 supplier notification requirements.

CERCLA

CERCLA section 103(a) specifically requires the person in charge of a vessel or facility to report immediately to the National Response Center (NRC) a release of a hazardous substance whose amount equals or exceeds the assigned RQ. The following hazardous substances are contained in this product.

<u>RQ</u>	<u>CAS No.</u>	<u>Chemical Name</u>
1,000 lbs	1310-73-2	SODIUM HYDROXIDE

TSCA Section 12(b) Export Notification

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

<u>CAS No.</u>	<u>Chemical Name</u>
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There are no TSCA 12(b) Chemicals in this product.

California Proposition 65

The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm. Unless otherwise specified in Section 2 of this MSDS, these chemicals are present at < 0.1%:

