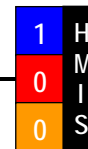




MATERIAL SAFETY DATA SHEET



NAME: **COMPOUND 50M**

PRODUCT # 282601

1. PRODUCT AND COMPANY IDENTIFICATION

EMERGENCY RESPONSE INFORMATION:

Company Offices:	812-273-6000	Weekdays
CHEMTREC:	800-424-9300	24-Hour Service
Steven T. Hale:	812-265-2703	Evenings and Weekends
David R. Goodman, Jr.:	812-273-6213	Evenings and Weekends

PREPARED DATE: 11-13-07

PREPARED BY: Steven T. Hale

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Clear, light amber liquid with a mild odor. May cause skin or eye irritation. May be harmful if swallowed.

POTENTIAL HEALTH EFFECTS:

EYES: Contacted areas may exhibit irritation.

SKIN: Contacted areas may exhibit irritation.

INGESTION: May be harmful if swallowed.

INHALATION: No hazard in normal industrial use.

CHRONIC EFFECTS / CARCINOGENICITY: This material contains no ingredient above de minimus concentrations known or suspected to cause cancer. Chronic overexposure to 2-butoxyethanol has apparently been found to cause liver and kidney injury, blood abnormalities, and gastrointestinal effects in laboratory animals.

POTENTIAL ENVIRONMENTAL EFFECTS: This material contains a toxic chemical listed under SARA Section 313. See Section 15.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>SYNONYM</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
2-butoxyethanol	EGBE Butyl cellosolve Ethylene glycol monobutyl ether	111-76-2	5-15
Sodium metasilicate	None	6834-92-0	0-10

4. FIRST AID MEASURES

EYES: Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician.

SKIN: Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.

INGESTION: Induce vomiting. Give water. Never give anything by mouth to an unconscious person. Call a physician.

INHALATION: Move subject to fresh air and get medical attention.

SIGNS AND SYMPTOMS OF EXPOSURE: Contacted areas may exhibit irritation and can be burned if not flushed immediately. During normal use, it is not reasonable to expect effects other than skin or eye irritation due to overexposure. However, **COMPOUND 50M** contains 5-15% by weight 2-butoxyethanol and acute exposure to 2-butoxyethanol may lead to dermatitis, dizziness, fatigue, nausea, vomiting, diarrhea, headache, possible unconsciousness, and even death.

PRIMARY ROUTE(S) OF ENTRY: Eyes, skin.



MADISON CHEMICAL CO., INC.

3141 Clifty Drive • Madison, IN 47250

NAME:

COMPOUND 50M

PRODUCT # 282601

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES: **FLASH POINT:** None prior to boiling (TOC, ASTM D 1310).
FLAMMABLE LIMITS:
LEL: N.D.
UEL: N.D.

EXTINGUISHING MEDIA: As appropriate for surrounding fire.

FIRE FIGHTING INSTRUCTIONS: Use NIOSH / MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain liquid spills with sand and absorb on inert material. Dispose with solid waste. See Waste Disposal Method. Flush remainder to drain with water.

7. HANDLING AND STORAGE

PRECAUTIONS: Normal for alkaline materials. Store away from acids. Keep container closed when not in use. Keep from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use good ventilation. Local exhaust is recommended if TLVs are exceeded.

RESPIRATORY PROTECTION: In absence of proper environmental control, use NIOSH / MSHA approved positive pressure supplied air respirator for mists where airborne exposure is excessive.

SKIN PROTECTION: Impermeable type gloves. Other equipment as required to avoid contact.

EYE PROTECTION: Safety eyewear to protect against unexpected splashes.

GENERAL HYGIENE CONSIDERATIONS: Eyewash facility and emergency shower should be in close proximity.

EXPOSURE GUIDELINES:

<u>CHEMICAL IDENTITY</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
2-butoxyethanol	111-76-2	25 ppm (skin)	20 ppm
Sodium metasilicate	6834-92-0	N.E.*	N.E.*

*Manufacturer recommends a ceiling limit of 2 mg / M³.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: Clear, light amber liquid with a mild odor.

BOILING POINT (°F.): 212

VAPOR PRESSURE (mm Hg): N.D.

VAPOR DENSITY (Air = 1): N.D.

SOLUBILITY IN WATER: Complete.

FLASH POINT (Method used): None prior to boiling (TOC, ASTM D 1310).

LEL: N.D.

UEL: N.D.

SPECIFIC GRAVITY (WATER = 1): 1.09

PERCENT VOLATILE BY VOLUME (%): N.D.

EVAPORATION RATE (WATER = 1): 1.0

pH (100%): 12.9 – 13.3

pH (1% by volume): 10.0 – 10.4

10. STABILITY AND REACTIVITY

STABILITY: Material is stable.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers, acids.

CONDITIONS TO AVOID: No data found.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, oxides of sulfur.

HAZARDOUS POLYMERIZATION: Will not occur.



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11. TOXICOLOGICAL INFORMATION

This material, as a whole, has not been tested. This material contains no ingredient above de minimus concentrations known or suspected to cause cancer. Chronic overexposure to 2-butoxyethanol has apparently been found to cause liver and kidney injury, blood abnormalities and gastrointestinal effects in laboratory animals. The injury to the liver and kidneys is believed to be secondary to red blood cell hemolysis, a known effect of 2-butoxyethanol in rodents. Humans are resistant to the hemolytic effects of 2-butoxyethanol and therefore the kidney and liver injury noted in animal studies is not considered relevant to human health hazard evaluation.

12. ECOLOGICAL INFORMATION

This material contains no hazardous air pollutants (HAPS). This material contains a toxic chemical listed under SARA Section 313. See Section 15.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Normal for alkaline wastes. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

DOT PROPER SHIPPING DESCRIPTION: Compound, cleaning, NOI, liquid.
(This material is not a hazardous material under regulations of the US Department of Transportation.)

15. REGULATORY INFORMATION

TSCA STATUS: All ingredients are listed on the TSCA inventory.

CERCLA REPORTABLE QUANTITY: None established.

SARA 311 / 312 HAZARD CLASSES:

<u> X </u>	Acute Health	<u> X </u>	Chronic Health
<u> </u>	Fire	<u> </u>	Reactive
<u> </u>	Sudden Release of Pressure		

SARA 312 INFORMATION: Storage of 10,000 pounds or more requires filing a Tier 2 form. This material is not an extremely hazardous substance (EHS). Threshold planning quantity is 10,000 pounds.

SARA 313 INFORMATION: This material contains the following substances subject to the reporting requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>CHEMICAL NAME</u>	<u>CATEGORY CODE</u>	<u>CAS NO.</u>	<u>% BY WEIGHT</u>
2-butoxyethanol	N230	111-76-2	5

STATE REGULATORY INFORMATION:

CALIFORNIA (PROPOSITION 65): California has not identified the ingredients listed in Section 2 as known to cause cancer or reproductive toxicity.

16. OTHER INFORMATION

MSDS STATUS: Revised Sections 1, 2, 3, 4, 6, 7, 8, 9, 10, 11, 13, 14 and 16 on 11-13-07.

PRECAUTIONARY LABELING: **WARNING!** May cause skin or eye irritation.
May be harmful if swallowed.
Contains 2-butoxyethanol and sodium metasilicate.
Keep from freezing.

FOR INDUSTRIAL USE ONLY – KEEP OUT OF THE REACH OF CHILDREN