
M A T E R I A L S A F E T Y D A T A S H E E T

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 | SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION |
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PRODUCT NAME : ENCORE MACHINE GRADE PART B
 IDENTIFICATION NUMBER: ENCORE MACHINE GRADE PART B
 PRODUCT USE/CLASS : Polyurethane Part B

SUPPLIER:

Encore Rail Systems
 2350 West Midway
 Broomfield, CO 80020
 INFORMATION: 1-866-712-7622

PREPARER: Technical Department, PHONE:866-712-7622, PREPARE DATE: 08/18/06

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 | SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS |
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ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT%
01	Polyoxyalkyleneamine	9046-10-0	10.0-30.0

ITEM	EXPOSURE LIMITS					
	ACGIH		OSHA		COMPANY	
TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN	
01	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

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 | SECTION 3 - HAZARDS IDENTIFICATION |
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EMERGENCY OVERVIEW: Harmful if swallowed. May cause eye burns. Irritating to skin. Vapors irritating to eyes and respiratory tract. May cause allergic skin reaction.

ACUTE EFFECTS - EYE CONTACT: Severe irritant. Prolonged contact may cause burns.

ACUTE EFFECTS - SKIN CONTACT: Moderate irritant. Contact may cause redness, scaling, itching, and dermatitis.

ACUTE EFFECTS - INHALATION: Vapors may be irritating. Vapors from heated material may cause tearing, redness of eyes, coughing and mild burning sensation in the mucous membranes.

ACUTE EFFECTS - INGESTION: May cause irritation of mouth, throat, and stomach, with nausea, abdominal pain, and possible collapse. Slightly toxic.

CHRONIC OVEREXPOSURE EFFECTS: *Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components.

OTHER INFORMATION: No information.

PRIMARY ROUTE(S) OF ENTRY: INHALATION, SKIN CONTACT, EYE CONTACT,

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 | SECTION 4 - FIRST AID MEASURES |
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EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

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SECTION 4 - FIRST AID MEASURES

SKIN CONTACT: Immediately flush skin with plenty of water. Remove clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.

INGESTION: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

NOTES TO PHYSICIAN: Treat symptomatically. If swallowed, gastric lavage is indicated.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: >200F LOWER EXPLOSIVE LIMIT: N.A.
(PENSKY-MARTENS C.C.) UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: No data - contains water

EXTINGUISHING MEDIA: FOAM, DRY CHEMICAL, CO2, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Use water to cool exposed containers.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Reclaim clean material. Wear appropriate protective equipment during cleanup. Absorb with inert material, such as clay. Sweep or shovel into loosely-covered waste container and remove to appropriate waste area. Dispose of in accordance with federal, state, and local regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Remove contaminated clothing and wash before reuse. Avoid breathing vapor or mist. Avoid contact with skin and eyes. FOR INDUSTRIAL/PROFESSIONAL USE ONLY. Empty containers may retain product residue and can be dangerous. Observe all labeled precautions even after container is emptied.

STORAGE: Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Local exhaust as needed to control vapor or dust levels to below lowest component TLV.

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| SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION |
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RESPIRATORY PROTECTION: None normally required under good general industrial ventilation. If use is performed in a poorly-ventilated space, or if inhalation effects occur, use NIOSH-approved vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

SKIN PROTECTION: Clean clothing to cover skin. Neoprene gloves. Nitrile gloves. Supported PVA gloves.

EYE PROTECTION: Chemical splash goggles. Face shield.

OTHER PROTECTIVE EQUIPMENT: Accessible eye wash and safety shower.

HYGIENIC PRACTICES: Follow good general industrial safety practices during use.

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| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES |
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BOILING RANGE	: 500 - 500 F	VAPOR DENSITY	: Is heavier than air
ODOR	: Mild ammoniacal	ODOR THRESHOLD	: No data
APPEARANCE	: Opaque	EVAPORATION RATE:	Is slower than Butyl Acetate
SOLUBILITY IN H2O	: Appreciable		
FREEZE POINT	: ≥32 deg F	SPECIFIC GRAVITY:	1.075
VAPOR PRESSURE	: No data	pH @ 100.0 %	: >7
PHYSICAL STATE	: Liquid	VISCOSITY	: Low
COEFFICIENT OF WATER/OIL DISTRIBUTION: No data			

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| SECTION 10 - STABILITY AND REACTIVITY |
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CONDITIONS TO AVOID: Prolonged exposure to freezing temperatures.

INCOMPATIBILITY: Strong Lewis or mineral acids. Reaction with isocyanates in large amounts or under uncontrolled conditions releases considerable heat and may release acrid fumes.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon. Oxides of nitrogen, ammonia. Various hydrocarbons. Irritating aldehydes and ketones.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

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| SECTION 11 - TOXICOLOGICAL PROPERTIES |
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COMPONENT TOXICOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	----- LD50 -----	----- LC50 -----
Polyoxyalkyleneamine	Oral (rat)=480mg/kg	No information

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| SECTION 12 - ECOLOGICAL INFORMATION |
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ECOLOGICAL TEST DATA: No information.

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SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. When cured, product is non-hazardous, and may be placed in industrial or municipal landfill if local regulations permit. DO NOT landfill free liquid. Product disposed of in "as sold" condition is not considered a hazardous waste per Federal RCRA regulations. Fuels blending of free liquid recommended if permitted.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NOT REGULATED
DOT TECHNICAL NAME: N/A
DOT HAZARD CLASS: N/A HAZARD SUBCLASS: N/A
DOT UN/NA NUMBER: N/A PACKING GROUP: N/A RESP. GUIDE PAGE: N/A

INTERNATIONAL SHIPPING NAME: Not considered a dangerous good for transport
INTERNATIONAL ID NUMBER: N/A
IMDG CLASS (1°,2°): N/A IMDG PAGE NUMBER: N/A
IMDG EMS: N/A IATA CLASS (1°,2°): N/A

SECTION 15 - REGULATORY INFORMATION

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:
This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:
IMMEDIATE HEALTH HAZARD

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372:
----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN
No SARA Section 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:
The chemical substances in this product are on the TSCA Section 8 Inventory.
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
----- CHEMICAL NAME ----- CAS NUMBER
No components found.

COMPONENT RCRA CLASSIFICATIONS: Not regulated
COMPONENT RCRA CODES: No information.

CERCLA RQ VALUE (MINIMUM): None known

NEW JERSEY RIGHT-TO-KNOW:
The following materials are non-hazardous, but are among the top five components in this product:
----- CHEMICAL NAME ----- CAS NUMBER
Polyether polyol blend NONE
Water 7732-18-5
Dipropylene glycol 25265-71-8

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|                SECTION 15 - REGULATORY INFORMATION                |
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PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
Polyether polyol blend	NONE
Water	7732-18-5

CALIFORNIA PROPOSITION 65:

No Proposition 65 chemicals known to exist in this product.

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

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|                SECTION 16 - OTHER INFORMATION                |
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HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 05/05/05

REASON FOR REVISION: revised Section(s): 1,3,4,13,14,15,16

VOLATILE ORGANIC COMPOUNDS (VOCS): 2 grams/ltr (calculated)

LEGEND: N.A. - No information, N.E. - Not Established,
N.D. - Not Determined

ABBREVIATIONS: ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = US Occupational Health and Safety Administration; UK = United Kingdom; TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs); STEL = Short-Term Exposure Limit (15 min); C = Ceiling Value; PEL = Permissible Exposure Limit

DISCLAIMER: To the best of our knowledge, the information contained in this MSDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

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<END OF MSDS>