

SAFETY DATA SHEET

Product: PRO BLOCK MMS (PART B)

Revision Date: 2015/12/22

Section 1. Product and Company Identification

Product Name: **PRO BLOCK MMS (PART B)**
 Recommended Use(s): Water Mitigation system (Part B)
 Non-Recommended Use(s): Not specified
 Manufacturer: **Proma Adhesives**, 9801 Boulevard parkway,
 Anjou, QC, H1J 1P3, Canada
 Email: info@proma.ca
 Url: www.proma.ca
 Emergency Contact: **Emergency Spills (CANUTEC):** (613)996-6666 /Emergency contact number in Canada/U.S.A

Section 2. Hazard Identification

GHS Classification for mixture:

Serious eye damage/eye irritation - Category 1
 Skin corrosion/irritation - Category 1B
 Skin sensitization - Category 1
 Acute Toxicity (oral) - Category 4
 Germ Cell Mutagenicity - Category 2
 Toxic to reproduction (fertility) - Category 2
 Specific Target Organ Toxicity (Repeated Exposure) - Category 2

Pictograms:



Signal Words:

Danger

Hazard Statements:

Causes severe skin burns and eye damage.
 Harmful if swallowed.
 May cause an allergic skin reaction.
 Suspected of damaging fertility.
 Suspected of causing genetic defects.
 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements: General

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fumes. Wash hands thoroughly after handling. Wear protective gloves, eye protection and a dust mask.

Response

If exposed or concerned: Get medical advice/attention. Get medical advice if you feel unwell. IF IN EYES: Remove contact lenses, if present and easy to do, rinse with water for several minutes. IF ON SKIN: Rinse with water for several minutes. IF INHALED, Move the person to fresh air. IF INGESTED, call a poison center.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local regulations.

Section 3. Composition / Information on Ingredients

Identifiers	Ingredients	Percentage
100-51-6	benzyl alcohol	<50%
84852-15-3	4-nonylphenol	<25%
112-57-2	Tetraethylenepentamine	<25%
15520-10-2	2-methylpentane-1,5-diamine	<5%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	<3%
112-24-3	Triethylenetetramine	<0.5%



SAFETY DATA SHEET

Section 4. First-Aid Measures

First-Aid: Eyes

IF IN EYES: Wash eyes with plenty of water. Hold eyelids open to ensure adequate flushing. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention.

First-Aid: Skin

IF ON SKIN: Rinse with water for several minutes. Take off all contaminated clothing and wash it before reuse. In case of chemical burns, redness or other symptoms, seek medical advice/attention.

First-Aid: Ingestion

IF INGESTED: Call a poison center. Do not induce vomiting.

First-Aid: Inhalation

IF INHALED: Move the person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms occur.

Section 5. Fire-Fighting Measures

Flammability

Low flammability. This product must be heated at high temperature to present a risk

Suitable Extinguishing Media

Use dry chemical, water spray, carbon dioxide or alcohol-resistant foam.

Unsuitable Extinguishing Media

Not Available

Specific Hazards Arising from Combustion of Products

Combustion Products: May include and are not limited to Oxides of carbon (COx) and halogenated compounds.

Heat & Fire: The product is slightly flammable. Fire and heat may decompose the product and generate hazardous gas, vapor or dust.

Protective Measures for Fire-Fighting

Wear protective clothing to prevent contact with skin and eyes completely. Wear self-contained breathing apparatus for firefighting. Avoid direct contact with the substance. Avoid breathing gas, vapor or dust. In the case of large fires, evacuate residents who are downwind of fire.

Specific Hazards Arising from Combustion of Products

Explosion data:

Sensitivity to mechanical impact:	Not available
Sensitivity to Static discharge:	Not available

**SAFETY DATA SHEET****Section 6. Accidental Release Measures****Personal Precautions, Protective Equipment and Emergency Procedures**

Wear protective gloves, clothing and protective goggles to prevent contact with skin and eyes.
Avoid direct contact.
Avoid generating dust.
See protective measures in section 7 & 8.

Environmental Precautions

Prevent entry into sewers, water courses, basements or confined areas. Dispose the material in accordance with the government regulation. If the product has entered a water course or sewer or contaminated soil or vegetation, advise the local emergency services and environmental authorities.

Clean-up Procedures

Collect and transfer to a closable container without splash or generating dust / mist. Dispose the material in accordance with the government regulations.

Section 7. Handling and Storage**Precautions for Safe Handling**

Handling: Avoid direct contact with the substance. Avoid breathing dust. Keep container tightly closed. Wear protective gloves, clothing and protective goggles to prevent contact with skin and eyes. Ensure there is sufficient ventilation of the area. Do not eat or drink during handling. Report immediately if physical damage, leakage or spillage occurs.

General hygiene advice: Launder contaminated clothing before reuse. Wash any exposed area of body thoroughly after handling before eating, drinking or smoking.

Conditions for Safe Storage

Store locked up. Keep container tightly closed. Store in a well-ventilated area. Keep out of the reach of children. Respect the laws of the safety standards and occupational health.

Section 8. Exposure Controls / Personal Protection**Control Parameters / Exposure Guideline**

Ingredients	Occupational Exposure Limits	
	AIHA WEEL	
Tetraethylenepentamine	TWA: 5 mg/m ³ (8h)	Absorbed through skin. Skin sensitizer.
Benzyl alcohol	TWA: 10 ppm (8h)	
Triethylenetetramine	TWA: 1 ppm (8h)	Absorbed through skin.

Control Parameters / Exposure Controls

Engineering Controls: Use ventilation adequate to keep exposures below recommended exposure limits. (airborne levels of dust, fume, vapor etc.)

Control Parameters / Individual Protective Measures

Eye/Face Protection: Wear Safety goggles. Don't use eye lens.

Skin and Body Protection: Wear protective clothing. Wear a dust mask.

Hand Protection: Wear impermeable gloves.

Respiratory Protection: If ventilation is inadequate or in the case of mechanical work on cured material or when mixing use an adequate respiratory equipment.



SAFETY DATA SHEET

Section 9. Physical and Chemical Properties

Basic physical and chemical properties Information

Physical state:	Liquid
Color:	Yellow
Odour:	Amine
Odour threshold:	Not available
pH (in water):	Not available
Melting/freezing point:	Not available
Boiling point:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability:	Slightly flammable
Upper Explosive Limit:	Not available
Lower Explosive Limit:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Specific gravity (kg/L):	1
Solubility uncured:	Not soluble
Solubility cured:	Not available
Octanol/Water coefficient:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity (kcPs @ 21°C):	Not available
Oxidizing Properties:	Not available
Explosive Properties:	Not available
VOC content (g/l)	Not available

Section 10. Chemical Stability & Reactivity Information

Stability/Reactivity	Stable under ambient condition.
Possibility of Hazardous Reactions	None
Conditions to Avoid	Incompatible materials.
Materials to Avoid	Oxidizer
Hazardous Products of Decomposition	May include and are not limited to Oxides of carbon (COx) and halogenated compounds.

Section 11. Toxicological Information

Toxicological Information for Product

Prolonged / Repeated Exposure: Prolonged / Repeated exposure may cause allergic skin reaction.

Ingestion: The product is classified for ingestion hazard.

Toxicological Data: No toxicological data exists for the product.

Carcinogenicity: This product is not classified as carcinogenic.

Inhalation: No known effect.

Toxicological Information for Component

	Benzyl alcohol	4-nonylphenol
Toxicity - Oral	LD50 Rat 1230 mg/kg	LD50 Rat 1300 mg/kg
Toxicity - Dermal	LD50 Rabbit > 2000 mg/kg	N/A
Toxicity - Inhalation	N/A	N/A
	Tetraethylenepentamine	2-methylpentane-1,5-diamine
Toxicity - Oral	LD50 Rat 3990 mg/kg	LD50 Rat 1690 mg/kg
Toxicity - Dermal	N/A	LD50 Rat 1280 mg/kg
Toxicity - Inhalation	N/A	LC50 Rat 2900 mg/m ³ (1h)
	2,4,6-tri(dimethylaminomethyl)phenol	Triethylenetetramine
Toxicity - Oral	LD50 Rat 1200 mg/kg	LD50 Rat 2500 mg/kg
Toxicity - Dermal	N/A	LD50 Rabbit 850 mg/kg
Toxicity - Inhalation	N/A	N/A

SAFETY DATA SHEET

Section 12. Ecological Information

Ecotoxicity:	No ecotoxicity values for this specific blend. Avoid release into the environment.
Persistence and Degradability:	Not available
Bioaccumulative Potential:	High potential
Mobility in Soil:	Not available
Other Adverse Effects:	Not available

Section 13. Disposal Considerations

Waste Disposal Regulation(s) / Operation

Avoid release to the environment. Users need to pay attention to the possible existence of regional or national regulations regarding disposal.

Section 14. Transportation Information [ADR-UN, DOT, ICAO, IMDG, TDGR]

UN Number:	1760
UN Proper Shipping Name:	Corrosive Liquid, N.O.S. (4-nonylphenol, 2-methylpentane-1,5-diamine)
Hazard Class:	8
Packing group:	II



Section 15. Regulatory Information

Safety, Health and Environmental Regulations for Product

No regulation data for product.

Safety, Health and Environmental Regulations for Component

BenzyI alcohol

Canada: DSL / NDSL: Listed on the Canadian DSL (Domestic Substance List) inventory. Listed on the Canadian Ingredient Disclosure List.

States: Hazardous Substance Right to know list (RTK): Massachusetts. New Jersey. Pennsylvania.

Tetraethylenepentamine

Canada: DSL / NDSL: Listed on the Canadian DSL (Domestic Substance List) inventory. Listed on the Canadian Ingredient Disclosure List.

States: Hazardous Substance Right to know list (RTK): Massachusetts. New Jersey. Pennsylvania.

Section 16. Other Information

Date of preparation :	December 2 2015
Version :	1.0
Prepared by :	PROMA ADHESIVES INC



SAFETY DATA SHEET

Other Information Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This

Glossary

ACGIH:	American Conference of Governmental Industrial Hygienists.
ADR:	European Road Transport.
CAS:	Chemical Abstracts Service.
DOT:	US Department of Transportation USA.
DSL:	Canadian Domestic Substances List.
EPA:	US Environmental Protection Agency.
ICAO:	International Civil Aviation Organization.
IMDG:	International Maritime Dangerous Goods Code.
LC50:	Lethal concentration that will kill 50 percent of the test animals within a specified time.
LD50:	The dose required to produce the death in 50 percent of the exposed species within a specified time.
N/Ap:	Not applicable.
N/Av:	Not available.
N/D:	Not determined.
NDSL:	Canadian Non-Domestic Substances List.
NIOSH:	National Institute for Occupational Safety and Health.
OSHA:	Occupational Safety and Health Administration, US Department of Labor.
REL:	A recommended exposure limit (REL) is an occupational exposure limit that has been recommended by the United States National Institute for Occupational Safety and Health to the Occupational Safety and Health Administration (OSHA) for adoption as a permissible exposure limit.
RTECS:	Registry of Toxic Effects of Chemical Substances.
SARA:	Superfund Amendments and Reauthorization Act.
STEL:	A short-term exposure limit (STEL) is the acceptable average exposure over a short period of time, usually 15 minutes as long as the time-weighted average is not exceeded.
TDGR:	Transportation of Dangerous Goods Regulations.
TLV:	The threshold limit value of a chemical substance is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse health effects. Strictly speaking, TLV is a reserved term of the American Conference of Governmental Industrial Hygienists (ACGIH). However, it is sometimes loosely used to refer to other similar concepts used in occupational health and toxicology. TLVs, along with biological exposure indices (BEIs), are published annually by the ACGIH.
TSCA:	Toxic Substances Control Act.
TWA:	A time-weighted average is used to calculate a workers daily exposure to a hazardous substance (such as chemicals, dusts, fumes, mists, gases, or vapors) or agent (such as occupational noise), averaged to an 8-hour workday, taking into account the average levels of the substance or agent and the time spent in the area. This is the guideline OSHA uses to determine permissible exposure limits (PELs) and is essential in assessing a worker's exposure and determining what protective measures should be taken.
UN:	United Nations.