

SAFETY DATA SHEET
MISSION MODELS POLYURETHANE MIX ADDITIVE

12/8/15

Manufacturer or Distributor:



Information Telephone Number: 818 929 9253

Emergency Telephone Number: 818 929 9253

For Health Emergencies: 818 929 9253

Poison Control Center: 1-888-516-2502 / 1-800-222-1222

SECTION I – PRODUCT IDENTIFICATION

Product Name: Polyurethane Mix Additive

Product Number: MMA-001

Product Sizes: 2 oz, 4 Oz, 8 Oz, 16 Oz, & 32 Oz

Brand Name: Mission Models

Product Use: Paint additive intermix.

ART MATERIAL - Consumer Product

SECTION II – HAZARDS IDENTIFICATION

Information pertaining to particular dangers for man and environment:

This product has been classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200)

Emergency Overview:

WARNING! IRRITANT.

Label elements:

Conforms to ASTM D-4236



GHS07

Signal Word:

WARNING!

Hazard Statements:

Causes eye and skin irritation. May cause respiratory tract irritation. May cause an allergic skin reaction.

Precautionary Statements:

Avoid contact with eyes. Do not eat, drink or smoke when using this product. Avoid release to the environment. Not a food. Do not use on food.

Children's Statement:

KEEP OUT OF REACH OF CHILDREN.

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Classification of the Product:

NFPA	Health 2 - Warning! May be harmful if inhaled or absorbed. Flammability 0 - Not Combustible Reactivity 0 - Stable
HMIS:	Health 2 - Moderate Hazard Flammability 0 - Minimal Hazard Physical Hazard 0 - Minimal Hazard
Regulation (EC) No. 1272/2008:	Triethylamine (CAS No.: 121-44-8) - Less than 1.00% - Flam.Liq. 2; H225 Acute Tox. 4; H302 Acute Tox. 3; H311 Acute Tox. 3; H331 Skin Corr. 1A; H335 Eye Dam. 1; H318 1,2 - benzisothiazol-3(2H)-one (BIT) (CAS No.: 2634-33-5) - Less than 0.01% - Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Dipropylene Glycol Monobutyl Ether (DPnB) (CAS No.: 29911-28-2) - Less than 10.00% - Eye Irrit. 2 H319; Eye Dam. 1 H318; Acute Tox. 4 H312 Propylene Glycol Methyl Ether (PGME) (CAS No.: 107-98-2) - Less than 5.00 % - Flam. Liq. 3 H226; STOT SE 3 H336
Export and Import of Dangerous Chemicals Regulation (EC)No. 649/2012:	This product and its ingredients are listed in the Annex I of the regulation.
Directive 67/548/EEC & Directive 1999/45/EC:	R36/R37/R38 (Eyes, Respiratory Tract, Skin Irritant) ; R43 (May cause sensitization by skin contact.)

SECTION III – COMPOSITION / INFORMATION ON INGREDIENTS

Substances:	Dipropylene Glycol Monobutyl Ether (DPnB) (CAS No.: 29911-28-2) - Less than 10.00% Propylene Glycol Methyl Ether (PGME) (CAS No.: 107-98-2) - Less than 5.00 % Triethylamine (CAS No.: 121-44-8) - Less than 1.00% 1,2 - benzisothiazol-3(2H)-one (BIT) (CAS No.: 2634-33-5) - Less than 0.01%
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Ingredients are marked according to CLP Regulation (CLP-Regulation (EC) No 1272/2008) and according to DSD (Dangerous Substances Directive (67/548/EEC)) and DPD (Dangerous Preparations Directive (1999/45/EC)) These ingredients are regarded as trade secrets.

SECTION IV – FIRST AID MEASURES

Inhalation:	If inhaled, remove to fresh air.
Skin Contact:	Wash thoroughly with soap and water. Seek medical assistance if irritation persists after exposure.
Eye Contact:	Flush immediately with plenty of water for at least 15 minutes and get medical attention immediately.
Ingestion:	Drink water or milk to dilute. Do not induce vomiting. Contact a physician.

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SECTION V – FIRE FIGHTING MEASURES

Extinguishing Media: Water, foam, carbon dioxide or dry chemical equipment.

Fire/Explosion Hazards: Not available

Flashpoint/Flammability: Greater than 200 °F. Not Flammable

SECTION VI – ACCIDENTAL RELEASE MEASURES

Environmental Precautions: No product should be released to the environment without due care.

Methods and Materials for Containment and Cleaning up: Contain spill. Recover as much as possible with sand, soil or similar product. Place into closed container and store in a safe location to await disposal. Wash the spill area with soap and water.

SECTION VII – HANDLING AND STORAGE

Safe Handling: Use under ventilated conditions. Avoid eye contact. For personal protection, we recommend that employees wash thoroughly after handling product. Always wash before eating, smoking or using toilet facilities. Keep container closed when not in use.

Storage Specifications: Keep the sample in a cool dry ventilated area..

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal Protective Equipment: Wear safety goggles and protective gloves to avoid dust contact.

Exposure Limits: Not applicable to this mixture.

Respiratory and Ventilation: Wear approved NIOSH/MSHA respirator if exposure to mist or vapor exceed applicable PEL/TLV limits. Use in accordance with manufacturer's use limitations and OSHA STANDARD 1910-34. Local ventilation may be used to prevent routine inhalation.

Skin Protection: Handle with non-porous nitrile gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full Contact Material: Nitrile rubber
Data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye Protection: Safety glasses conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear
Physical State:	Liquid
Color:	Clear
Odor:	Slight ammonia odor
Boiling Point:	Not determined
Freezing Point:	Not determined
State (pH):	7.5-8.5
Specific Gravity:	1.0 - 2.0
Viscosity:	25 mPas
Flashpoint:	Greater than 200 °F
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Solubility in water:	Miscible
VOC:	VOC less than 0.01%

SECTION X – STABILITY AND REACTIVITY

Reactivity:	Reaction with strong oxidizing agents.
Chemical Stability:	Stable
Conditions to Avoid:	All sources of ignition. Avoid heat.
Incompatible materials:	Strong oxidizing agents, strong acids, strong bases, amines, ammonia, halogenated compounds.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION XI – TOXICOLOGICAL INFORMATION

Health Effects:	Studies have not been performed on this particular mixture. The information below is based on data on the individual ingredients.
Oral:	Expected to be greater than 2,000 mg/kg (rats)
Ingestion:	Nausea, vomiting and abdominal pain.
Dermal:	May cause allergic skin reaction.
Eye Effects:	Causes eye irritation.

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SECTION XII – ECOLOGICAL INFORMATION

Toxicity:	No information available.
Aquatic toxicity:	No information available.
Persistence and degradability:	A mixture of biodegradable and non biodegradable ingredients. No other information is available.
Bioaccumulative potential:	Not expected to bioaccumulate significantly.
Mobility in Soil:	No information available.
Additional ecological information:	No information available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Contact specialist disposal companies. Dispose of waste and residues in accordance with local authority requirements. Recover and reclaim or recycle, if practical.

SECTION XIV – TRANSPORTATION INFORMATION

The following transportation categories do not apply to this mixture sold as a consumer use product (non-bulk).

Suitable Cleaning Agents:

14.1 UN-No:

Land transport ADR / RID	Not applicable
Marine transport IMDG	Not applicable
Air transport ICAO / IATA	Not applicable

14.2 UN-proper shipping name:

Land transport ADR / RID	Non dangerous goods
Marine transport IMDG	Non dangerous goods
Air transport ICAO / IATA	Non dangerous goods

14.3 UN-transport hazard class(es):

Land transport ADR / RID	Not applicable
Marine transport IMDG	Not applicable
Air transport ICAO / IATA	Not applicable

14.4 UN-packaging group:

Land transport ADR / RID	Not applicable
Marine transport IMDG	Not applicable
Air transport ICAO / IATA	Not applicable

14.5 UN-environmental hazards:

Land transport ADR / RID	Not applicable
Marine transport IMDG	Not applicable
Air transport ICAO / IATA	Not applicable

Precautions: Not applicable

Transport in Bulk According to annex II of MARPOL 73 / 78 and the IBC Code: Not applicable

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the materials.

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SECTION XV – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture.

SARA:	Not applicable
Section 355 (extremely hazardous substances):	Not applicable
Section 313 (Specific toxic chemical listing):	Not applicable
TSCA (Toxic Substance Control Act) The Safe Drinking Water and Toxic Enforcement Act of 1986 - California Proposition 65:	All ingredients are listed. Warning! This product contains a chemical known to the State of California to cause cancer.
Chemicals known to cause cancer:	Trace amounts of Benzyl Chloride (CAS No. : 100-44-7); 1,4-Dioxane (CAS No.: 123-91-1)
Chemicals known to cause reproductive toxicity for females:	None of the ingredients are listed as of 12/08/2015
Chemicals known to cause reproductive toxicity for males:	None of the ingredients are listed as of 12/08/2015
Chemicals known to cause developmental toxicity:	None of the ingredients are listed as of 12/08/2015
Carcinogenicity categories:	
EPA (Environmental Protection Agency):	Not applicable to this mixture.
TLV (Threshold Limit Value established by ACGIH):	Not applicable to this mixture.
MAK (German Maximum Workplace Concentration):	Not applicable to this mixture.
NOISH-Ca (National Institute for Occupational Safety & Health):	Not applicable to this mixture.
OSHA-Ca (Occupational Safety & Health Administration):	Not applicable to this mixture.

SECTION XVI – OTHER INFORMATION

Supersedes MSDS:	12/8/2015
Reason for Issue:	GHS Format
Prepared by:	Rudolph J. Jaeger, Ph.D., DABT, ERT (UK) Chief Toxicologist and President ENVIRONMENTAL MEDICINE, INC. 263 CENTER AVENUE WESTWOOD, NJ 07675 jaegerr@envmed.com 201-666-7929 x13

H Statements:

H225 Highly flammable liquid and vapor.	H318 Causes serious eye damage.
H226 Flammable liquid and vapor.	H319 Causes serious eye irritation
H302 Harmful if swallowed.	H331 Toxic if inhaled.

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H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

Brand Names

This SDS applies to the following brand names: Mission Models

MMA-001 Polyurethane Nix Additive.