

SYNTHETICS INTERNATIONAL, INC.**XG CATALYST****MATERIAL SAYFETY DATA SHEET**

Effective date: 09-01-1997 Revised Date: 08-30-02

Product Name: **XG Catalyst**

Chemical Family: Mixture

Chemical Name:

Chemical Family: see Section III

Molecular Weight: (Mixture)

Synonyms: none

CAS # and Name: Mixture – see Section III

HMIS Hazard Rating: Health 2 Fire 0 Reactivity 0

II. Physical Data (on typical material)

Boiling Point: ~300' F

Specific Gravity (H₂O = 1): ~1.06

Freezing Point: ~0' C

Vapor Pressure at 20' C: <1.3mm/hg

Vapor Density at one ATM, 20' (air = 1): 1

Solubility in water by wt: Miscible

Appearance and Color: Milky off white liquid with mild odor

pH: 8.5 typical

V.O.C. (g/l): 216, NO CFC's

V.O.C. 9g/l) with StonLok "E": 247, NO CFC's

III. Ingredients

Material	%	CAS No.	TLV (units)	Hazard
Polyamine	~30.0	Trade Secret	None established	see Section V
2-prpoxyethanol	~20.0	2807-30-9	None established	see Section V
Surfactants and defoamers	~1.5	Trade Secret	None established	see Section V
Water	~48.5	7732-18-5	N.A.	N.A.

IV. Fire and Explosive Data: Fire fighting Measures

Flash Point (test methods): Pensky Martins closed cup >200' F

Flammable Limits in Air, by volume:

Lower: Not Applicable (low volatility aqueous system)

Upper: Not Applicable (low volatility aqueous system)

Extinguishing Media:

Non-flammable (aqueous system): Use water fog, carbon dioxide or dry chemical.

Special Fire Fighting Procedures:

Use positive pressure, NIOSH approved self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion Hazards:

Emits mildly toxic fumes under fire conditions. No CN radicals in composition.

V. Health Hazard Data

TLV and Source: None Established

Effects of Single Exposures:

Swallowing: Product may be moderately toxic and may be harmful if swallowed. May cause damage to red blood cells.

Skin Absorption:

No evidence of adverse effects from available information.

Inhalation:

Not expected to be relevant exposure route but mist could cause respiratory tract sensitization and/or irritation. May be harmful to red blood cells in inhaled.

Skin Contact:

Brief contact is not irritating.

Eye Contact: May be severely irritating to eyes. May cause corneal damage.

Effects of repeated Overexposures:

Prolonged direct skin contact can cause defatting and drying of skin and may result in irritation and dermatitis. If absorbed through skin, may cause red blood cell damage.

Other Effects of Overexposure:

None currently known.

Medical Conditions Aggravated by Overexposure:

Preexisting eye, skin and respiratory disorders.

Significant Laboratory Data with Possible Relevance to Human Health Hazard Evaluation:

2-Propoxyethanol: Acute oral LD50 – 3.1 G/KG (RAT); Acute Dermal LD50 – 870 MG/KB (RAT); Acute inhalation LC50 - >200ppm/6H (RAT).

VI. Emergency and First Aid Procedures

Swallowing:

DO NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Obtain medical attention.

Skin:

Remove contaminated clothing and wash skin with soap and water for 15 minutes. Wash clothing before reuse. Discard contaminated leather articles.

Inhalation:

Remove to fresh air and provide oxygen if breathing is difficult. Get medical attention.

Eyes:

Immediately flush eyes thoroughly with water and continue washing for at least 15 minutes. Obtain medical attention, preferably from an ophthalmologist.

Notes to Physician:

If more than 2.0 mls per KG has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victims head below hips to prevent aspiration. If convulsions or unconsciousness occur before emesis, gastric lavage using cuffed endotracheal tube should be considered.

VII Stability and Reactivity

Stability:

Stable

Conditions to Avoid:

None Known.

Incompatibility (materials to avoid):

Avoid strong oxidizing agents, mineral acids, and strong mineral and organic bases.

Hazardous Combustion and Decomposition Products:

None expected

Hazardous Polymerization:

Will not occur.

VIII. Accidental Release Measures and Disposal Methods

Steps to be taken if Material is released or spilled.

Collect large spills into suitable container. Wipe small spills with absorbent material.

Waste Disposal Method:

Dispose of or incinerate in accordance with appropriate Federal, State and local regulations. This IS NOT haz waste under RCRA (40 CFR 261).

IX. Special Personal Protection Information

Respiratory Protection

None expected to be needed when rolled or brushed. NIOSH organic approved suggested for vapor.

Ventilation

Use local exhaust ventilation.

Protective Gloves

Chemical resistant gloves for direct handling.

Eye Protection

Safety glasses

Other Protective Equipment

Eye bath

X. Special Precautions (Handling/Storage/Use)

WARNING: Severe eye irritant. May be toxic if absorbed through skin. Avoid contact with eyes, skin and clothing. Do not swallow. Wash thoroughly after handling. Keep out of reach of children.

For Industry Use Only

Other Precautions:

None

XI. Regulatory Information

Status on Substance Lists:

Concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations.

Federal EPA

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) require notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in 40 CFR 302.4.

Components present in this product at a level that could require reporting under the statute are: NONE

SARA 302, 304, 311, and 312: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on the threshold Planning Quantities (TRQ's) and release reporting based on Reportable Quantities (RQ's) in 40 CFR 355.

Components present in this product at a level that could require reporting under the statute are: NONE

SARA 313: Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR

372. This information must be included in all MSDS's that are copied and distributed for this material.

Components present in this product at a level that could require reporting under the statute are:

Chemical	CAS Number	Hazardous Substance (=> 1%) Upper Bound Concentration %
2-propoxethanol	2807-30-9	20.0%

State Right To Know

California Proposition 65: This product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute.

Massachusetts 105 CMR 670.000 Right To Know, Substance list (MSL) hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products

Components present in this product at a level that could require reporting under the statute are: NONE

Pennsylvania Right To Know List

Hazardous Substances and Extraordinarily Hazardous Substances on the List must be identified when present in products

Components present in this product at a level that could require reporting under the statute are: NONE

TSCA Inventory Status

The ingredients of this product are listed on the EPA/TSCA inventory

VOC's

216 g/L: no CFC's
247 g/L when combined with StonLok "E"

Other regulatory information:

EPA Hazard categories: Immediate Health Hazard, Delayed Health Hazard

The material in this Material Data Safety Sheet is offered in good faith as typical values and not a product specifications(s); and is accurate and current to the best of Richard James Specialty Chemicals Corp's knowledge. No warranty, expressed or implied, is made. Information is offered solely for recipient's consideration, investigation and verification and should be reviewed by recipient in the context of intended product use. Buyer/user/recipient assumes the risk in use of the Material; and it is the responsibility of said entity(ies) to determine the suitability and completeness of information; to ensure proper use, and safety/health; and to determine that use is in accordance with the applicable federal, state and local laws and regulations.