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MODERN SAFETY TECHNIQUES

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**MATERIAL
SAFETY
DATA
SHEET**

PRODUCT: 80033-B Catalyst
DATE: January 1, 2009

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EMERGENCY CONTACT:

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The following information includes safety data required by OSHA. The recipient of this safety data is responsible for passing the safety information on so that it reaches the ultimate user who may come in contact with the material.

TRADE NAME: 987 LTC Catalyst
**CHEMICAL NAME
& FAMILY:** Alumina base catalyst with heavy metals.

SYNONYMS: Alumina base catalyst with heavy metals.

**CHEMICAL NOTATION
OR STRUCTURE:**

Al_2O_3 + heavy metals.
Proprietary mixture.

INGREDIENTS: Alumina impregnated with heavy metals.
Proprietary mixture. Includes Nickel compounds.

CAS REGISTRY NO: Al_2O_3 - 1344-28-1
RTECS NO: Al_2O_3 : BK 1200000

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HEALTH INFORMATION

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PRECAUTIONS IN USE:

Because of the presence of a suspected carcinogen, avoid inhalation, ingestion or skin contact with the catalyst in either the product form or an altered form resulting from its use (dust, leachate, or waste). To avoid inhalation, use a properly fitted NIOSH-approved respirator fitted with a filter for highly toxic particulates. Ventilate the work area to keep dust levels below the PEL's shown on p. 3. Avoid skin contact by using rubber gloves, head coverings, goggles, and impervious clothing that is changed once a day. To prevent ingestion, do not allow eating, drinking or smoking in the work area. Hands and face must be washed before eating, drinking or smoking. Employees should shower after working with this material. SEE SPECIAL INFORMATION, p.4.

FIRST AID:

EYES: Immediately wash from eyes with large amounts of water, occasionally lifting upper & lower eye lids. If irritation occurs and persists, seek medical attention.

SKIN: Wash with soap & water. Remove contaminated clothing.

INGESTION: Drink 2 glasses of milk or water & induce vomiting by having patient touch the back of his throat with his finger. Never make an unconscious person vomit. Get medical attention immediately.

INHALATION: Remove to fresh air.

TOXICOLOGY

This product and its components are not listed on the IARC, NTP or OSHA Carcinogens Lists:

ANIMAL TOXICOLOGY

TESTS FOR DOT HAZARD CLASSIFICATION:

Not tested. Not classified as hazardous. Hazardous shipping label not required.

TESTS FOR FDA APPROVAL FOR USE IN FOODS:

Not a food-grade product. Must not be used in food or food contact.

HUMAN TOXICOLOGY:

Alumina is not known to cause any occupational disease. A mild desiccation of the skin may result from frequent contact. Nickel compounds are listed on the NTP and IARC lists as suspected carcinogens which have been known to cause cancer in laboratory animal tests. MST, Inc. knows of no medical conditions abnormally aggravated by exposure to this product. The primary route of entry is inhalation.

MATERIAL SAFETY DATA SHEET

ENVIRONMENTAL DATA

Waste streams that contain this product must be treated to meet standards for toxic discharges.

TYPICAL CHEMICAL & PHYSICAL INFORMATION

APPEARANCE: Bluish green beads

pH IN 5% SLURRY: Approximately 5-9

ODOR: None

SPECIFIC GRAVITY: Approximately ~2.4

BULK DENSITY: 25-30 lbs/ft³

**SOLUBILITY
IN WATER:** Base-Insoluble. Heavy metals will leach.

APPROXIMATE ANALYSIS:		<u>Wt. %</u>	<u>OSHA PEL mg/M³</u>	<u>ACGIH mg/M³</u>
STC	Ni (as NiCl ₂)	0.15-0.19	1	1 (proposed =.05, eff. 1991)
	Al ₂ O ₃	30-40	n.1.	n.1.

n.1. - Not listed.
STC - SARA Toxic Chemical

STABILITY: Stable

REACTIVITY: Non-reactive

**FIRE & EXPLOSION
DATA:** Will not burn or explode

REGULATORY STATUS

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- OSHA-** See Approximate Analysis, p. 3.
- NIOSH-** Catalyst not evaluated.
- EPA-** Contains chemical (s) listed on the SARA 313 Toxic Chemical List. Toxic Chemical (s) shown in Approximate Analysis, p. 3 and by attachment if MSDS describes different product grades.
- ACGIH-** See Approximate Analysis, p. 3.
- USDA-** Not applicable. Not a food-grade product.
- FDA-** Not applicable. Not a food-grade product.
- DOT-** Not classified.

OTHER INFORMATION

Hazard Rating:

- HMIS-**
- * Health - 2
 - Flammability - 0
 - Reactivity - 0
 - Protective Equipment - E (Safety Glasses, Gloves, Dust Masks)

Revision Summary:

- Added other Information

Supersedes:

- January 1, 2006

HANDLING INFORMATION

STORAGE AND

TRANSPORTATION:

Keep containers tightly sealed and dry.

DISPOSAL:

Dispose in a secure type landfill, suitable for toxic chemicals, according to state, local and federal regulations. See SPECIAL INFORMATION.

SPILLAGE AND CLEANUP:

Vacuum up. Return to container for re-use or disposal. Use protective measures specified in PRECAUTIONS IN USE section page 2.

CONTAINERS:

Steel drums, fiber drums or bins depending on the customer's requirements.

SPECIAL INFORMATION

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Following contact with other chemicals or gases, the catalyst must be handled with special precautions. The combination of catalyst and retained material can be flammable and acutely toxic. Extra protection should be used besides that described in PRECAUTIONS IN USE. Avoid sources of ignition. Use NIOSH-approved organic vapor gas mask. Determine RCRA Hazardous Waste classification before disposal.

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