BETAMAX 30 LT

Health Hazard : 2-Moderate

Flammability Hazard : 0-Minimal Reactivity Hazard . . . : 0-Minimal

Personal Protection : E-Glasses, gloves,

dust mask

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Revised . . . : January 15, 2009
MSDS No . . . : BETAMAX30LT

M - F, 8:00 a.m. - 5:00 p.m. PT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name BETAMAX 30 LT

General Use A low cement refractory castable for placement by vibration casting.

MANUFACTURER:

TELEPHONE NUMBERS:

2. COMPOSITION/HAZARDOUS INGREDIENTS

<u>Ingredient</u>	CAS Registry #	<u>Percent</u>	Exposure Limits
Alumina silicate	1302-93-8	45-60	OSHA PEL = 15mg/m³ total dust; 5mg/m³ respirable dust. ACGIH TLV = 2mg/m³ resp. dust.
Cement, Calcium Aluminate	65997-16-2	5-20	OSHA PEL = 15mg/m³ total, 5mg/m³ resp. dust;
Cristobalite	14464-46-1	<1	ACGIH TLV = 10mg/m³ total dust. See note 1. OSHA PEL = ½[(10mg/m³)/(%Silica+2)] resp. dust;
Glass Oxide	65997-17-3	<7	ACGIH TLV = 0.025mg/m³ respirable dust. None established.
Quartz	14808-60-7	<1	Treat as nuisance dust. OSHA PEL = [(10mg/m³)/(%Silica+2)] resp. dust;
Silica Fume, Amorphous	69012-64-2	<10	ACGIH TLV = 0.025mg/m³ respirable dust. OSHA PEL = 15mg/m³ total dust;
Silica, Amorphous (Glass)	7631-86-9	5-20	ACGIH TLV = 2mg/m³ respirable dust. OSHA PEL = 80mg/m³/% silica
This product contains minor percentages of <7		<7	ACGIH TLV = 3 mg/m³ respirable dust. OSHA PEL = 15mg/m³ total, 5mg/m³ resp. dust;
ingredients which are considered proprietary.		ACGIH TLV = 10mg/m³ total dust. See note 1.	

Some of the above ingredients are integral mineralogical constituents contained within the matrix of the raw materials. Note 1: ACGIH TLV for total dust with no asbestos and less than one percent crystalline silica.

3. HAZARDS IDENTIFICATION

Emergency Overview : This is a gray mixture of granular materials that may contain fine plastic fibers.

It has no detectable odor and poses no immediate health or environmental hazard.

Potential Health Effects:

Primary Entry Route(s) . . . : Inhalation

Target Organs Respiratory System

Acute Effects:

Eyes Solids or dust may cause irritation or scratch surface of eye.

Inhalation May cause upper respiratory irritation.

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3. HAZARDS IDENTIFICATION (cont.)

Chronic Effects : Dust generated from dry material may contain crystalline silica. IARC Monograph

Volume 68, 1997 concludes that, "There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite

from occupational sources." IARC classification - Group 1.

NTP has included crystalline silica in its list of substances that are "reasonably

anticipated to be carcinogens."

Signs and Symptoms : Cough, shortness of breath.

Medical Conditions

Pre-existing chronic lung conditions such as, but not limited to, bronchitis, emphysema, Aggravated by Exposure . . . : and asthma. Exposure to crystalline silica in conjunction with other carcinogens (such

as cigarette smoking) may have a synergistic (compounding) effect.

4. FIRST AID MEASURES

Eyes Flush eyes thoroughly with water for at least 15 minutes. Consult physician.

Ingestion No adverse effects anticipated by swallowing.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get immediate medical

attention.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards .: BETAMAX 30 LT is non-combustible and will not contribute to the intensity of a fire.

Flash Point and Method : Not Applicable. Flammable Limits Not Applicable. Autoignition Temperature . . .: Not Applicable.

Extinguishing Media : As appropriate for the surrounding fire. Fire Fighting Equipment : As appropriate for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Spill/Leak procedures : Reuse any spilled material where possible. Carefully scoop material into a suitable

container. If conditions warrant, clean-up personnel should wear approved respiratory protection, gloves, and goggles to prevent irritation from contact and/or inhalation. Spilled material poses no threat to the environment. See section 12.

7. HANDLING AND STORAGE

Handling BETAMAX 30 LT requires no special handling other than adherence to good

industrial practices.

Storage : Contact with water will cause material to set-up and become unusable.

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8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation Provide adequate general ventilation and local ventilation to control mist and/or dust

levels below the TLV.

Personal Protective Equipment

Eyes Goggles

Skin Long sleeve clothing

Inhalation Dust mask Other Gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point Not Applicable.

Vapor Pressure Not Applicable.

Vapor Density Not Applicable.

Solubility in Water : Slight Specific Gravity (water=1) . . : 1.9 Melting Point >3000°F

10. STABILITY AND REACTIVITY

Chemical Stability : BETAMAX 30 LT is stable under normal ambient and anticipated conditions of

temperature and pressure.

Incompatible Materials and

Conditions to Avoid None.

Hazardous Polymerization . . : Will not occur. Hazardous Decomposition . . : Will not occur.

11. TOXICOLOGICAL INFORMATION

There are no known health effects that can arise from the as-manufactured BETAMAX 30 LT. There is no evidence to suggest that BETAMAX 30 LT itself is carcinogenic.

12. ECOLOGICAL INFORMATION

BETAMAX 30 LT is virtually insoluble and immobile and poses no threat to the environment if accidentally released on land or into water.

13. DISPOSAL CONSIDERATIONS

BETAMAX 30 LT as-manufactured is not considered a hazardous waste. However, before destruction of the refractory lining, customers are advised to evaluate any changes to the product that may occur by the introduction of substances or operating conditions outside the control of the vendor.

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14. TRANSPORT INFORMATION

BETAMAX 30 LT is not a DOT Hazardous Material and contains no DOT Hazardous components.

15. REGULATORY INFORMATION

Section 2 lists OSHA exposure limits for chemicals considered by OSHA to be air contaminants.

16. OTHER INFORMATION

Although reasonable care has been taken in the preparation of the information contained herein, Pryor Giggey Co. extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

WARNING: This product may contain respirable crystalline silica; a chemical known to the State of California to cause cancer.