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Effective Date: 11/15/95

Product Name: INOSITOL

Synonyms: Hexahydroxycyclohexane

Chemical Formula: C₆H₁₂O₆

CAS No.: 87-89-8

Hazards Identification

Potential Acute Health Affects

Very dangerous in case of ingestion. Slightly dangerous to dangerous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Very slightly to slightly dangerous in case of skin contact (permeator). This product may irritate eyes and skin upon contact.

Potential Chronic Health Affects

Carcinogenic Affects: N/A
Teretogenic Affects: N/A
Mutagenic Affects: N/A
Toxicity of the product to the reproductive system: N/A
There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.

First Aid

Eye Contact

Check for and remove any contact lenses. Immediately flush eyes with running water for at least fifteen minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.

Skin Contact

If the chemical got onto the clothed portion of the body, remove contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victims exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

Serious Skin Contact

Wash with disinfectant soap and cover the irritated skin with an anti-bacterial cream. Seek medical attention.

Inhalation

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation

No additional information.

Ingestion

Remove dentures if any. Have conscious person drink several glasses of water or milk. INDUCE VOMITING by sticking finger in throat. Lower the head so that the vomit will not reenter the mouth and throat. NEVER give an unconscious person anything to ingest. Seek medical attention.

Fire and Explosion Information:

Flammability of the Product	Combustable
Flash point	Not available
Extinguishing media to be recommended	Small Fire: Use DRY chemicals, CO2, water spray or foam. Large Fire: Use water spray, fog, or foam. DO NOT use water jet.
Explosion Hazards In Presence of Various Substances	N/A
Fire Hazards in the Presence Of Various Substances	N/A
Products of Combustion	Carbon oxides (CO, CO2)

Accidental Release Measures

Small Spill

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface, and dispose of according to local and regional authority requirements.

Large Spill

Use a shovel to put the material into a convenient waste disposal system. Finish cleaning by spreading water on contaminated surface and allow to evacuate through the sanitary system.

Handling and Storage

Precautions

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell seek medical attention and show label where possible. Avoid contact with skin or eyes.

Storage

Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well ventilated place. Combustible materials should be stored away from extreme heat and away from strong oxidizing ingredients.

Exposure Controls / Personal Protection

Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operation generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Splash goggles. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves (impervious).

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

Physical And Chemical Properties

Physical State and Appearance	Solid
Molecular Weight	180.6
pH (1% soln/water)	Not Available
Boiling Point	319°C
Melting Point	226°C
Critical Temperature	N/A
Specific Gravity	1.752 (water=1)
Vapor Pressure	N/A
Vapor Density	N/A
Volatility	N/A
Odor Threshold	N/A
Water/Oil Dist.coeff.	N/A
Ionicity (in water)	N/A
Dispersion Properties	See solubility in water
Solubility	Soluble in cold water

Stability and Reactivity Data

Stability	Stable
Instability Temperature	N/A
Conditions of Instability	N/A
Incompatibilities With Various Substances	N/A

Corrosivity	Non- corrosive in prescence of glass
Special Remarks	None
Polymerization	No.

Toxicological Information

Routes of Entry	Ingestion, Inhalation
Toxicity to Animals	LD50: N/A LC50: N/A
Chronic Affects on Humans	Toxicity to the reproductive system: N/A
Other Toxic Effects on Humans	Very dangerous in case of ingestion. Slightly dangerous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Very Slightly dangerous in case of skin contact (permeator).
Special Remarks on Toxicity to Humans	Nuisance dust

Ecological Information

Ecotoxicity	N/A
BOD5 and COD	N/A
Products of Biodegradation	Carbon oxides (CO, CO2).
Toxicity of Products of Biodegradation	The products of degradation are more toxic
Waste Disposal	Recycle, if possible. Consult your local or regional authorities.