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Material Safety Data Sheet

Effective Date: 04-17-08

I. CHEMICAL PRODUCT

Product: HYPOXANTHINE, DISODIUM SALT

II. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

MF: $C_5H_2N_4O \cdot 2Na$
M.W: 180.11
CAS No: 102-32-9

III. HAZARDS IDENTIFICATION

Emergency Overview

CAUTION!

MAY BE IRRITATING TO THE SKIN, EYES, AND UPPER RESPIRATORY TRACT.
MAY BE HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN

Potential Health Effects Skin

This material May cause skin irritation. Reddening, itching and inflammation may result.
May be absorbed through the skin.

Potential Health Effect Eyes

Direct contact may cause irritation, redness, tearing and blurred vision.

Potential Health Effects Inhalation

May cause irritation to the respiratory tract.
This material may cause injury or illness if inhaled.

Potential Health Effect Ingestion

If ingested, this material may cause irritation to the mouth, throat and gastrointestinal tract.
May be harmful if swallowed.

Special Toxic Effects

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED.

Target Organs

ND

IV. FIRST AID MEASURES

Skin

Immediately flush skin with plenty of water, for at least 15 minutes, while removing contaminated clothing and shoes. Contaminated clothing must be laundered before reuse. Get medical attention if irritation develops or persists.

Eyes

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing.

Get medical attention if irritation persists.

Inhalation

Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen.

Get medical attention.

Ingestion

If swallowed, wash out mouth with water provided person is conscious.

Never give anything by mouth to an unconscious person.

Get medical attention.

V. FIRE FIGHTING MEASURES

Hazardous Combustion Products

MAY EMIT TOXIC FUMES UNDER FIRE CONDITIONS.

Extinguishing Media

Use extinguisher media appropriate for surrounding fire.

Basic Fire Fighting Procedure

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear. Evacuate the area and fight fire from a safe distance.

Unusual Fire and Explosion Hazards

None known to manufacturer.

ND

Flash Point Temperature ND (Solid)

Autoignition Temperature ND

Flammability Limits in Air Lower ND

Flammability Limits in Air Upper ND

VI. ACCIDENTAL RELEASE MEASURES

Emergency Action

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind. (See Personal Protection Information Section.)

Environmental Precautions

Isolate hazard area and deny entry. Keep unnecessary people away. Take immediate steps to stop and contain the spill. Caution should be exercised regarding personnel safety and exposure to the spilled material.

Spill or Leak Procedure

Vacuum or sweep up material and place in a disposal container. Clean up spills immediately under qualified supervision observing precautions in Protective Equipment section. Avoid clean up procedures that generate dust or result in water pollution.

After removal, scrub the contaminated area with detergent and flush thoroughly with water. Absorb wash liquid and place in the disposable container. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways.

VII. HANDLING AND STORAGE

Handling

DO NOT GET IN EYES, ON SKIN OR CLOTHING.

Minimize dust generation during handling and contact.

Wash hands thoroughly before eating, drinking or smoking.

Storage

Store at room temperature.

Keep containers tightly closed and upright when not in use.

Storage Hazards

Store away from oxidizers.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Facilities using or storing this material must be equipped with an eyewash station and safety shower.

Local exhaust ventilation, process enclosures, and other forms of engineering controls are the preferred means for controlling exposures.

Eye Protection PPE

Do not wear contact lenses when working with this substance.

Avoid eye contact with this material. Wear chemical safety goggles or safety glasses.

Skin Protection PPE

Avoid skin contact with this material. Use appropriate chemical protective gloves when handling.

Showering and changing into street clothing after work is recommended.

Respiratory Protection PPE

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

A NIOSH/MSHA approved dust respirator should be used as a precautionary measure when airborne contaminants may occur.

A NIOSH/MSHA approved air purifying respirator is recommended where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited.

Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstance where air purifying respirators may not provide adequate protection.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance SOLID

Boiling Point ND

Melting Point ND

Freezing Point ND

Vapor Density ND

Vapor Pressure ND

Specific Gravity ND

Molecular Formula C₅H₂N₄O*2Na

Molecular Weight 180.11

pH ND

X. STABILITY AND REACTIVITY

Stability/Incompatibility

Stable under normal conditions of use.
Incompatible with strong oxidizing agents.

Decomposition Products

Combustion may produce CO, CO₂ and/or NO_x.

Hazardous Polymerization

Will not occur.

XI. TOXICOLOGICAL INFORMATION

CAUTION! THE TOXICOLOGICAL PROPERTIES OF THIS MATERIAL HAVE NOT BEEN FULLY INVESTIGATED. FOLLOW GOOD LABORATORY PRACTICES WHEN HANDLING.

Routes of Exposure

Inhalation, ingestion, skin and eye contact.

LD50

REGISTRY OF THE TOXIC EFFECTS OF CHEMICAL SUBSTANCES(RTECS)

RTECS # Not Listed.

NO ORAL LD50 IN RATS INFORMATION IS AVAILABLE.

Carcinogenicity

NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN

XII. ECOLOGICAL INFORMATION

EcoToxicological Information

DATA NOT YET AVAILABLE.

Chemical Fate Information

DATA NOT YET AVAILABLE.

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

It is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets criteria for hazardous waste.

If the material is determined to be a hazardous waste, the transportation, storage, treatment and disposal of this waste material must be conducted in compliance with 40 CFR 262, 263, 264, 268 and 270. Disposal can occur only in properly permitted facilities.

XIV. TRANSPORT INFORMATION

Department of Transportation (DOT) Requirements

Proper Shipping Name NOT REGULATED

Hazard Class NA

Packaging Group NA

Reportable Quantity None

Labels Required NA

UN/NA Code NA

Marine Pollutant (49 CFR 172.101 Appendix B)

XV. REGULATORY INFORMATION

Federal Regulations

or under the supervision of a technically qualified individual as defined by 40 CFR 720.0 et.sec.

(ii) The health risks of this product have not fully been determined. Any information that is or becomes available will be supplied on a Material Safety

Data Sheet. Uses other than for Research and Development may constitute a violation of TSCA.

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products NOT on the inventory list: (i) This

product is supplied solely for use in Research and Development by

State Regulations

Reformulation, use or processing of this product may affect its composition and would require re-evaluation

Based on available information this material does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65.

XVI. OTHER INFORMATION

The information presented in this Material Safety Data Sheet is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide for safety precautions. The data does not reflect a guarantee of any product properties.