MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Click http://www.lookchem.com/cas-133/1333-83-1.html for suppliers of this product.

Cas: 1333-83-1 Code: Μ **RTECS:**

USE NIOSH/MSHA CERTIFIED DUST MASK AND/OR RESPIRATOR WHERE APPROPRIATE.

LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION TO MAINTAIN EXPOSURE LEVELS.

Equipment PROTECTIVE CLOTHING AS REQUIRED TO AVOID SKIN CONTACT. AN EMERGENCY EYE WASH STATION AND

WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

CAN CAUSE IRRITATION TO EYES, NOSE AND THROAT ON PROLONGED EXPOSURE AND/OR DIRECT CONTACT. SKIN CONTACT CAN

THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT

EYE IRRITATION, SKIN IRRITATION/ULCERATION, UPPER RESPIRATORY TRACT IRRITATION, NAUSEA, VOMITING, DIARRHEA.

RESTORE BREATHING. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION.

CAUSE IRRITATION AND ULCERATION ESPECIALLY UNDER FINGER NAILS. INHALATION MAY CAUSE PULMONAR Y IRRITATION AND DEATH.

EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. IN HALATION: REMOVE TO FRESH AIR.

SWEEP UP AND DISPOSE OF IN ACCORDANCE WITH APPLICABLE REGULATIONS.WITH SUITABLE ABSORBENT MATERIAL. COLLECT FOR

PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR

FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER

SODIUM BIFLUORIDE (SARA III)

Other REC Limits:

OSHA PEL: 2.5 PPM (F)

OSHA STEL:

ACGIH TLV:

ACGIHSTEL:

Ventilation:

RUBBER 4

Protective Gloves:

Eye Protection:

2.5 MG (F)/M3; 9394

Control Measures

SAFETY GLASSES OR GOGGLES

SHOWER SHOULD BE AVAILABLE.

Supplemental Safety and Health:

Health Hazards Data

 $ORAL\ LD50\ (RAT) = 130\ MG/KG$

Carcinogenicity Inds - NTP:

Health Hazards Acute And Chronic:

INGESTION CAN BE FATAL.

Spill Release Procedures:

Waste Disposal Methods:

NONE SPECIFIED BY MANUFACTURER.

Handling And Storage Precautions:

LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. 3

AVOID SKIN CONTACT. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Fire and Explosion Hazard Information

NONFLAMMABLE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Physical/Chemical Properties

STORE IN A COOL, DRY PLACE WITH ADEQUATE VENTILATION.

Neutralizing Agent:

Other Precautions:

Flash Point Method:

N/P

N/A

HCC: C1

NRC/State LIC No:

Boiling Point:

Melt/Freeze Pt:

M.P/F.P Text: NOT GIVEN

Decomp Temp:

Decomp Text: UNKNOWN

Vapor Pres: NOT GIVEN

Vapor Density: NOT GIVEN

Spec Gravity: NOT GIVEN

PH: 0.9

Viscosity:

NOT GIVEN

COMPLETE

Solubility in Water:

Corrosion Rate: UNKNOWN 5

Stability Indicator:

HEAT, OPEN FLAME

Materials To Avoid: STRONG ALKALI

Appearance and Odor:

Percent Volatiles by Volume:

Reactivity Data

Stability Condition To Avoid:

Hazardous Decomposition Products: OXIDES OF SULFUR, HYDROFLUORIC ACID

Hazardous Polymerization Indicator:

Conditions To Avoid Polymerization:

Toxicological Information

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

www.lookchem.com

Other Information:N/P

MSDS Transport Information

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

WARRANTY

terms and conditions of sale.

NONE. WILL NOT OCCUR.

Information:N/P

Information:N/P

N/P

N/K

YES

VOC Pounds/Gallon:

VOC Grams/Liter:

Evaporation Rate & Reference:

GRANULAR POWDER, OFF-WHITE, NO ODOR

Volatile Org Content %:

B.P. Text: NOT GIVEN

Net Prop WT For Ammo:

Flash Point:

Flash Point Text: NONFLAMMABLE

Autoignition Temp:

Lower Limits: NOT GIVEN

Upper Limits: NOT GIVEN

Extinguishing Media:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard: NONE SPECIFIED BY MANUFACTURER.

Autoignition Temp Text:

CARCINOGENS.

First Aid:

DISPOSAL.

Explanation Of Carcinogenicity:

Signs And Symptions Of Overexposure:

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

Route Of Entry Inds - Inhalation:

NONE SPECIFIED BY MANUFACTURER.

Other Protective Equipment:

Work Hygienic Practices:

LD50LC50Mixture:

YES

Skin: YES

YES

IARC: NO

OSHA: NO

Ingestion:

Respiratory Protection:

Code:

Code:

Code: Μ

NΡ Code:

Μ

NONE RECOMMENDED

Composition/Information on Ingredient

WB0350010 Code: Μ Name: