

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-133/1330-43-4.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
1330-43-4

Code:
M

RTECS:
VZ2240000

Code:
M

Name:
SODIUM TETRABORATE, PENTAHYDRATE

Other REC Limits:
NONE RECOMMENDED

OSHA PEL:
10 MG/M3

Code:
M

OSHA STEL:

Code:

ACGIH TLV:
1 MG/M3; 9394

Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures

Respiratory Protection:
NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED DUST RESPIRATOR MUST BE WORN.

Ventilation:
GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT.

Protective Gloves:
WEAR IMPERVIOUS GLOVES.

Eye Protection:
SAFETY GLASSES W/SIDE SHIELDS OR GOGGLES

Other Protective Equipment:
Equipment ROUTINE USE OF A NON-ALKALINE TYPE SKIN CLEANER WILL MINIMIZE POSSIBILITY OF ALLERGIC SKIN REACTION.

Work Hygienic Practices:
WASH AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health:
UNIT ISSUE OF THIS PRODUCT MAKES 1-GALLON OF WORKING SOLUTION. SEE, THIS SAME NSN, P/N INDICATOR-W FOR "WORKING SOLUTION" DATA.

Health Hazards Data

LD50LC50Mixture:
LD50 (ORAL RAT) IS NOT ESTABLISHED.

Route Of Entry Inds - Inhalation:
NO

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
EYES: CAUSES IRRITATION. SKIN: CAUSES IRRITATION. CAN CAUSE ALLERGIC SKIN REACTION. INHALATION: LOW HAZARD FOR RECOMMENDED HANDLING. INGESTION: MAY BE HARMFUL IF SWALLOWED.

Explanation Of Carcinogenicity:
NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Signs And Symptions Of Overexposure:
EYES: IRRITATION. SKIN: IRRITATION, ALLERGIC SKIN REACTION. INHALATION: LOW HAZARD FOR RECOMMENDED HANDLING. INGESTION: MAY BE HARMFUL IF SWALLOWED.

Medical Cond Aggravated By Exposure:
NONE SPECIFIED BY MANUFACTURER.

First Aid:
EYES: FLUSH WITH LARGE AMOUNTS OF WATER. IF SYMPTOMS PERSISTS, GET MEDICAL ATTENTION. SKIN: FLUSH AREA WITH WATER AND WASH WITH A NON-ALKALINE (ACID) TYPE SKIN CLEANER. IF IRRITATION OR ALLERGIC REACT ION DEVELOPS, GET MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, GET MEDICAL ATTENTION. INGESTION: INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. GET MEDICAL ATTENTION. 4

Spill Release Procedures:
FLUSH TO AN ACID-FREE SEWER WITH LARGE AMOUNTS OF WATER. DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT TO FEDERAL, STATE, OR LOCAL LAWS.

Neutralizing Agent:
NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:
DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions:
KEEP FROM CONTACT WITH OXIDIZING MATERIALS. KEEP CONTAINERS TIGHTLY CLOSED AND AWAY FROM ACIDS.

Other Precautions:
EXPECTED TO HAVE MODERATE BOD. EXPECTED TO HAVE HIGH POTENTIAL TO AFFECT AQUATIC ORGANISMS AND WASTE TREATMENT MICROORGANISMS. A FINAL CONCENTRATION OF 0.05 MG/L IS NOT EXPECTED TO CAUSE AN ADVERSE EN VIRONMENTAL EFFECT AFTER TREATMENT.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
NONCOMBUSTIBLE

Autoignition Temp:

Autoignition Temp Text:
N/R

Lower Limits:
N/R

Upper Limits:
N/R

Extinguishing Media:
NONCOMBUSTIBLE SOLID. USE APPROPRIATE AGENT FOR SURROUNDING FIRE.

Fire Fighting Procedures:
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:
FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS. 5

Physical/Chemical Properties

HCC:
N1

NRC/State LIC No:
N/R

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/R

Melt/Freeze Pt:

M.P/F.P Text:
UNKNOWN

Decomp Temp:

Decomp Text:
UNKNOWN 6

Vapor Pres:
NEGLEGIBLE

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
UNKNOWN

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
NEGLEGIBLE

Solubility in Water:
APPRECIABLE

Appearance and Odor:
YELLOW POWDER, ODORLESS.

Percent Volatiles by Volume:
NEG

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
FIRE AND EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Materials To Avoid:
STRONG OXIDIZING AGENTS, STRONG ACIDS

Hazardous Decomposition Products:
THERMAL DECOMPOSITION MAY PRODUCE OXIDES AND OXIDES OF SULFUR.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
WILL NOT OCCUR.

Toxicological Information

Information:N/P

MSDS Transport Information

Information:N/P

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

Other Information:N/P



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WARRANTY

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