

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-203/20344-49-4.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

20344-49-4

Code:

M

RTECS:

Code:

X 2

Name:

YELLOW IRON OXIDE

Other REC Limits:

NONE SPECIFIED

OSHA PEL:

10 MG/M3

Code:

M

OSHA STEL:

Code:

M

ACGIH TLV:

NOT ESTABLISHED

Code:

M

ACGIH STEL:

Code:

M

Control Measures

Respiratory Protection:

IF EXPOSURE EXCEEDS THE PEL/TLV, USE THE APPROPRIATE NIOSH-APPROVED RESPIRATOR.

Ventilation:

5 USE VENTILATION AS REQUIRED TO CONTROL VAPOR CONC--AT LEAST 10 AIR CHANGES PER HR ARE RECOMM FOR GOOD ROOM VENTILATION.

Protective Gloves:

APPROPRIATE GLOVES TO PREVENT CONTACT

Eye Protection:

SAFETY GLASSES, GOGGLES OR SPLASH SHIELD

Other Protective Equipment:

Equipment PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. DON'T WEAR CONTACT LENSES. EYEWASH STATIONS &SFETY SHOWERS SHOULD BE AVAIL.

Work Hygienic Practices:

WAS W/SOAP &WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET. DECONTAMINATE CONTAM CLOTHING BEFORE REUSE.

Supplemental Safety and Health:

PRODUCT IS PRESUMED TO BE FETOTOXIC. CHRONIC OVEREXPOS MAY CAUSE INJURY TO KIDNEYS AND LIVER.

CHRONIC OVEREXPOS MAY CAUSE DAMAGE TO LUNGS. OVEREXPOS MAY CAUSE SLIGHT LUNG FIBROSIS.

OVEREXPOS MAY CAUSE A TISSUE RESPONSE (PNEUMOCONIOSIS). CHRONIC OVEREXPOS MAY CAUSE SCARRING OF THE LUNGS.

Health Hazards Data

LD50/LC50 Mixture:

N/K

Route of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

YES

Carcinogenicity Inds - NTP:

N/P

IARC:

N/P

OSHA:

N/P

Health Hazards Acute And Chronic:

EYE/SKIN: MODERATE IRRIT. PROLONGED CONTACT- -DAMAGE/DEFAT/DRYING (DERMATITIS). ABSORB THRU SKIN--SYMPTOMS OF EXPOS AS FOR INHAL/INGEST. INHAL: IRRIT-NOSE/THROAT/RESP TRACT/MUCOUS MEMBRANES. CENTRAL NERV SYS DEPRESS. PROLONG OVEREXPOS (SOLVENT)--PERMANENT BRAIN/ NERVOUS SYS DAMAGE. CONCENTRATING/INHALING OF PROD-

Explanation Of Carcinogenicity:

N/K HARMFUL/FATAL. INGEST: CENTRAL NERV SYS DEPRESS. ASPIRATION INTO LUNGS CAN CAUSE SEVERE LUNG DAMAGE.

Signs And Symptoms Of Overexposure:

EYE: PAIN, TEARING, REDDENING, SWELLING. SKIN: REDDENING, SWELLING, RASH. INHAL: RUNNY NOSE, SORE THROAT, COUGHING, CHEST DISCOMFORT, SHORTNESS OF BREATH, REDUCED LUNG FUNCTION. INGEST: SORE THROAT/AB DOM PAIN/NAUSEA/VOMITTING/DIARRHEA. CENTRAL NERV SYS DEPRESS: HEADACHE/DIZZINESS/NAUSEA/INTOXICATION/UNCONSCIOUSNESS

Medical Cond Aggravated By Exposure:

PREEXISTING SKIN, EYE & RESP DISORDERS. IMPAIRED CENTRAL NERVOUS SYSTEM FUNCTIONS FROM PREEXIST DISORDERS. & DEATH. CHRONIC OVEREXPOS: LOSS OF MEMORY, INTELLECTUAL ABILITY, COORDINATION. 4

First Aid:

EYE: IMMED FLUSH EYE W/WATER 15 MIN, EYELIDS OPEN. SEE DR. SKIN: REMOVE CONTAM CLOTH & SHOES. WIPE EXCESS FROM SKIN. FLUSH W/WATER & SOAP. SEE DR IF IRRIT. INHAL: GROSS OVER EXPOS TO NUISANCE PARTICLE MAY CAUSE IRRIT OF RESP TRACT. INGEST:DON'T INDUCE VOMITING UNLESS DR ORDERS. IF OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS (PREVENT ASPIRATION). CONSULT DR/POISON CONTROL CTR/TRANSPORT TO EMERG RM.

Spill Release Procedures:

LRG SPILL: EVACUATE UNPROTECTED. WEAR APPROP RSPRTR & PROTEC CLOTH. S LEAK IF SAFE. DIKE/CONTAIN. VAPOR CLOUD, WATER FOG TO SUPPRESS. CONTAIN RUNOFF. REMOVE W/VACUUM TRUCK/PUMP TO STOR/SALV VESSEL. USE ABSORB. PLACE IN NON-LEAKING CNTNRS.

Neutralizing Agent:

N/K

Waste Disposal Methods:

OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS REGARDING PROPER DISPOSAL. FLUSH AREA W/WATER TO REMOVE TRACE RESIDUE. DISPOSE OF FLUSH SOLUTION AS ABOVE. SMALL SPILLS: TAKE UP W/ABSORBENT & PLACE IN N ON-LEAKING CNTNRS. SEAL TIGHTLY FOR DISPOSAL.

Handling And Storage Precautions:

KEEP FROM HEAT & IGNITION SOURCES. VAPORS MAY ACCUMULATE & TRAVEL TO IGNITION SOURCES DISTANT FROM HANDLING SITE. KEEP CNTNRS CLOSED WHEN NOT IN USE.

Other Precautions:

SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE PRODUCT IN ABSENCE OF SPARKS OR FLAME. CONTAINERS, EVEN IF EMPTY, MAY CONTAIN EXPLOSIVE VAPOR. DO NOT CUT, DRILL, GRIND, OR WELD NEAR CNTNRS. USE ADEQUATE VENTILATION.

Fire and Explosion Hazard Information

Flash Point Method:

TCC

Flash Point:

N/K

Flash Point Text:

20.0F.-6.7C

Autoignition Temp:

N/K

Autoignition Temp Text:

N/K

Lower Limits:

N/K

Upper Limits:

N/K

Extinguishing Media:

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE. (THEORETICAL)

Fire Fighting Procedures:

FLAMMABLE. EVACUATE AREA OF UNPROTECTED. DON'T ENTER CONFINED FIRE SPACE W/OUT HELMET, FACE SHIELD, BUNKER COAT, GLOVES, RUBBER BOOTS & POSS PRESS NIOSH SCBA.

Unusual Fire/Explosion Hazard:

CNTNRS EXPLO W/FIRE/COOLED W/WATER (PREVENT CNTNR RUPTURE). COOL AREA EXPOS TO DIRECT FLAME W/WATER (PREVENT CNTNR WEAKENING).

Physical/Chemical Properties

HCC:

F3

NRC/State Lic No:

N/K

Net Prop WT For Ammo:

N/K

Boiling Point:

N/K

B.P. Text:

N/K

Melt/Freeze Pt:

N/K

P.M.P. Text:

N/K

Decomp Temp:

N/K

Decomp Text:

N/K

Vapor Pres:

N/K

Vapor Density:

>1

Volatile Org Content %:

N/K

Spec Gravity:

11.66 LB/GL

VOC Pounds/Gallon:

N/K

PH:

N/K

VOC Grams/Liter:

N/K

Viscosity:

N/K

Evaporation Rate & Reference:

N/K

Solubility in Water:

N/K

Appearance and Odor:

N/K

Percent Volatiles by Volume:

46.09

Corrosion Rate:

N/K

Reactivity Data

Stability Indicator:

YES

Stability Condition To Avoid:

N/K

Materials To Avoid:

AVOID MATERIALS, STRONG ACIDS, AMINES, POLYAMINES & POLAMIDES UNDER UNCONTROLLED CONDITIONS.

Hazardous Decomposition Products:

ALDEHYDES AND ACIDS, CARBON DIOXIDE, CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

Hazardous Polymerization Indicator:

NO 6

Conditions To Avoid Polymerization:

N/K

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

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