

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-901/9015-51-4.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
9015-51-4
Code:
M
RTECS:

Code:
X
Name:
SILVER, COLLOIDAL

Other REC Limits:
N/P

OSHA PEL:
N/P
Code:

OSHA STEL:
N/P
Code:

ACGIH TLV:
N/P
Code:

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
WEAR APPROPRIATE NIOSH APPROVED RESPIRATOR.

Ventilation:
USE ONLY IN A CHEMICAL FUME HOOD.

Protective Gloves:
CHEMICAL-RESISTANT GLOVES.

Eye Protection:
ANSI APPROVED CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment:
Equipment ANSI APPROVED EYE WASH DELUGE SHOWER (FP N). OTHER PROTECTIVE CLOTHING.

Work Hygienic Practices:
WASH THOROUGHLY AFTER HANDLING. 4

Supplemental Safety and Health:
FEDERAL REGULATORY INFO: OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA, NEW ZEALAND, SINGAPORE, VIETNAM
CHECK ACGIH TLV.

Health Hazards Data

LD50LC50Mixture:
N/P

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
ACUTE: HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY
INVESTIGATED. TARGET ORGAN DATA: LIVER (OTHER CHANGES. BLOOD (CHANGES IN SPLEEN). ONLY SELECTED REGISTRY OF TOXIC
EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE . SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.
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Explanation Of Carcinogenicity:
N/P

Signs And Symptoms Of Overexposure:
SEE HEALTH HAZARDS.

Medical Cond Aggravated By Exposure:
N/P

First Aid:
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE
REMOVING CONTAMINATED CLOTHING AND SHOES. IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS
CONSCIOUS. CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.

Spill Release Procedures:
EVACUATE AREA. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT
CONTACT WITH SKIN AND EYES.

Neutralizing Agent:
N/P

Waste Disposal Methods:
DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN
AFTERBURNER AND SCRUBBER. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

Handling And Storage Precautions:
TOXIC. TOXIC BY INHAL, IN CONT W/SKIN & IF SWALLOWED. IF YOU FEEL UNWELL, SEEK MED ADVICE (SHOW THE LABEL WHERE
POSSIBLE). WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE PROTECTION.

Other Precautions:
DO NOT BREATHE DUST. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. KEEP TIGHTLY
CLOSED. LIGHT SENSITIVE. STORE IN A COOL DRY PLACE.

Fire and Explosion Hazard Information

Flash Point Method:
N/P 3

Flash Point:

Flash Point Text:
N/P

Autoignition Temp:

Autoignition Temp Text:
N/P

Lower Limits:
N/P

Upper Limits:
N/P

Extinguishing Media:
WATER SPRAY. CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.

Fire Fighting Procedures:
WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND
EYES.

Unusual Fire/Explosion Hazard:
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
N/P

Melt/Freeze Pt:

M.P./F.P Text:
N/P

Decomp Temp:

Decomp Text:
N/P

Vapor Pres:
N/P

Vapor Density:
N/P

Volatile Org Content %:

Spec Gravity:
N/P

VOC Pounds/Gallon:

PH: N/P

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
N/P

Solubility in Water:
N/P

Appearance and Odor:
DARK-BROWN OR BLACK FLAKES.

Percent Volatiles by Volume:
N/P

Corrosion Rate:
N/P

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
PROTECT FROM LIGHT.

Materials To Avoid:
STRONG OXIDIZING AGENTS. ACIDS.

Hazardous Decomposition Products:
TOXIC FUMES OF: CARBON MONOXIDE, CARBON DIOXIDE.

Hazardous Polymerization Indicator:
NO 5

Conditions To Avoid Polymerization:
N/P

Toxicological Information

Information:N/P

MSDS Transport Information

Information:N/P

Regulatory Information

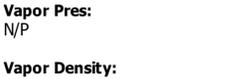
Sara Title III Information: N/P

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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