

MATERIAL SAFETY DATA SHEET

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

Click <http://www.industryonline.com/cas/500/5005-07-01.html> for suppliers of this product.

Composition/Information on Ingredient

9003-07-0

Code:
M

RTECS:
TR5000000

Code:
M

Name:
POLYPROPYLENE

Other REC Limits:
NONE RECOMMENDED

OSHA PEL:
NOT ESTABLISHED

Code:
M

OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED

Code:
M

ACGIHSTEL:
N/P

Code:

Control Measures:

Respiratory Protection:
NONE REQUIRED UNDER NO

Ventilation:
STORE AND HANDLE IN DRY, VENTILATED AREA.

Protective Gloves:
4 ACID RESISTANT AND GAUNTLET WHEN FILLING

Eye Protection:
CHEMICAL GOGGLES/FACE SHIELD WHEN FILING

Other Protective Equipment:
Equipment WEAR FULL-BODY COVERING DURING USE. WHEN FILING USE ACID RESISTANT APRON. SEVERE CONDITIONS, WEAR ACID-RESISTANT CLOTHING.

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

Supplemental Safety and Health:
U.S.DOT: DRY BATTERIES (CONTAINING NO ELECTROLYTE) ARE NOT REGULATED BY U.S.DOT AS HAZARDOUS MATERIAL. RCRA: DRY CHARGE/SPENT LEAD-ACID BATTERIES ARE NOT REGULATED AS HAZARDOUS WASTE WHEN RECYCLED. HANDLE ACID FILLED BATTERIES CAUTIOUSLY. MAKE SURE VENT CAPS ARE ON SECURELY. WEAR PROTECTIVE CLOTHING WHEN FILLING/HANDLING.

LD50LC50Mixture:

Route Of Entry Inds - Inhalation:
NO

Skin:
NO

Ingestion:
NO

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
HAZARDOUS EXPOSURE CAN OCCUR ONLY WHEN LEAD IS HEATED ABOVE MELTING POINT, OXIDIZED, OR OTHERWISE PROCESSED OR DAMAGED TO CREATE DUST, VAPOR, OR FUME. EYES: IRRITATION. SKIN: NOT ABSORBED THROUGH SKIN . INHALATION: LEAD DUST OR FUME MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT AND LUNGS. INGESTION: SYSTEMIC TOXICITY.

Explanation Of Carcinogenicity:
DRY BATTERY NOT CARCINOGENIC.LEAD LISTED AS A2B CACINOGEN.ARSENIC CARCINOGEN ONLY AFTER PROLONGED,HIGH LEVEL EXPOSURE.

Signs And Symptoms Of Overexposure:
ACUTE: LEAD COMPOUNDS: SYMPTOMS OF TOXICITY INCLUDE HEADACHE, FATIGUE, ABDOMINAL PAIN, LOSS OF APPETITE, MUSCULAR ACHES AND WEAKNESS, SLEEP DISTURBANCES AND IRRITABILITY. CHRONIC: LEAD COMPOUNDS: ANEM IA,NEUROPATHY,PARTICULARLY OF MOTOR NERVES,WITH WRIST DROP,KIDNEY DAMAGE,REPRODUCTIVE CHANGES IN BOTH MALES AND FEMALES.

Medical Cond Aggravated By Exposure:
LEAD AND ITS COMPOUNDS CAN AGGRAVATE SOME FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES.

First Aid:
3 EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: WASH AREA WITH SOAP AND WATER. INHALATION: MOVE TO FRESH AIR, GARGLE, WASH NOSE AND LIPS. GET MEDICAL ATTENTION. INGESTION: GET ME DICAL ATTENTION.

Spill Release Procedures:
LEAD DUST OR PARTICULATE SHOULD BE VACUUMED (USING HEPA FILTER) OR WET-SWEPT; USE CONTROLS WHICH MINIMIZE FUGITIVE EMISSIONS. DO NOT USE COMPRESSED AIR. PLACE IN DRY, CLOSED CONTAINERS FOR DISPOSAL OR RECYCLING.

Neutralizing Agent:
NONE

Waste Disposal Methods:
DISPOSE OF TOXIC SUBSTANCE IN ACCORDANCE WITH APPROVED LOCAL, STATE, AND FEDERAL REQUIREMENTS. CONSULT STATE ENVIRONMENTAL AGENCY AND/OR FEDERAL EPA. USED BATTERIES SHOULD BE RETURNED TO SMELTER.

Handling And Storage Precautions:
STORE BATTERIES IN COOL, DRY, WELL VENTILATED AREAS. BATTERIES SHOULD BE STORED UNDER ROOF FOR PROTECTION AGAINST ADVERSE WEATHER CONDITIONS.

Other Precautions:
SEPARATE FROM INCOMPATIBLE MATERIALS. STORE AND HANDLE ONLY IN AREAS WITH ADEQUATE WATER SUPPLY. AVOID DAMAGE TO CONTAINERS. KEEP AWAY FROM FIRE, SPARKS, AND HEAT. PRECAUTIONARY LABELLING: POISON-CAUS ES SEVERE BURNS.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
N/R

Autoignition Temp:

Autoignition Temp Text:
N/A

Lower Limits:
N/R

Upper Limits:
N/R

Extinguishing Media:
ANY FIRE EXTINGUISHER MEDIA MAY BE USED.

Fire Fighting Procedures:
WEAR FULL BODY PROTECTIVE CLITHING AND SELF-CONTAINED BREATHING APPARATUS WITH POSITIVE PRESSURE AND FULL FACE PIECE.

Unusual Fire/Explosion Hazard:
TO AVOID FIRE/EXPLOSION RISK DURING CHARGING,KEEP SPARKS/OTHER SOURCES OF IGNITION AWAY FROM BATTERIES AND DO NOT ALLOW METALLIC MATERIALS TO CONTACT TERMINALS.

Physical/Chemical Properties

N1

Net Prop WT For Ammo:
N/R

Boiling Point:

B.P. Text:
>2516F,>138

Melt/Freeze Pt:

M.P/F.P Text:
486 TO 680F

Decomp Temp:

Decomp Text:
N/R

Vapor Pres:
N/R

Vapor Density:
N/R

Volatile Org Content %:

Spec Gravity:
9.6 TO 11.3

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Ref:
N/R

Solubility in Water:
NEGLECTIBLE

Appearance and Odor:
BLUISH GRAY METAL. NO

Percent Volatiles by Volume:
N/R

Corrosion Rate:
N/R

Reactivity Data:

YES

PROLONGED OVERCHARGE, SOURCES OF IGNITION, WATER DAMAGE, PHYSICAL DAMAGE.

Materials To Avoid:
LEAD: AVOID ACIDS,BASES,HALIDES,HALOGENATES,POTASSIUM NITRATE,PERMANGANATE,PEROXIDES,NASCENT HYDROGEN,REDUCING AGENTS.

Hazardous Decomposition Products:
LEAD:MELTING POINT MAY PRODUCE METAL FUME,VAPOR,DUST.CONTACT WITH ACID/BASE OR NASCENT HYDROGEN MAY GENERATE ARSINE GAS.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NONE 5

Toxicological Information

Information:N/P

MSDS Tra

Regulator

Federal Regulatory Information: N/P

State regulation, international law

Other Information

For R&D use
WARRANTY

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