

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-900/9003-56-9.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

9003-56-9

Code:

M

RTECS:

Code:

X

Name:

ACRYLONITRILE BUTADIENE STYRENE

Other REC Limits:

NONE SPECIFIED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

NOT ESTABLISHED

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED RESPIRATOR FOR ACID DUST/MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.

Ventilation:

NOT NORMALLY REQUIRED. USE LOCAL EXHAUST DURING CHARGING CYCLES TO AVOID AN EXPLOSIVE BUILD UP OF HYDROGEN GAS.

Protective Gloves:

NONE (USE RUBBER IF ACID IS LEAKING)

Eye Protection:

SAFETY GLASSES/SPLASH GOGGLES (LIQUID)

Other Protective Equipment:

Equipment NORMAL WORK CLOTHING. PROTECT WITH IMPERVIOUS APRON AND/OR BOOTS IF ACID IS LEAKING.

Work Hygienic Practices:

USE GOOD INDUSTRIAL HYGIENE PRACTICE. AVOID ALL CONTACT WITH ACID OR INTERNALS OF THE BATTERY. WASH AFTER HANDLING.

Supplemental Safety and Health:

BATTERY IS CLASSED AS AN ARTICLE PER OSHA HAZ COM STD AND INFORMATION SUPPLIED FOR INFORMATION PURPOSES ONLY.

Health Hazards Data

LD50/LC50/Mixture:

ORAL RAT LD50 IS NOT KNOWN

Route Of Entry Inds - Inhalation:

NO

Skin:

NO

Ingestion:

NO

Carcinogenicity Inds - NTP:

YES

IARC:

YES

OSHA:

NO

Health Hazards Acute And Chronic:

PRODUCT CONTAINS LEAD AND SULFURIC ACID. SULFURIC ACID IS A CORROSIVE CAUSING BURNS TO BODY TISSUES. LEAD IS TOXIC AND SOME LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC. CONTACT WITH EITHER IS HIGHLY UNLIKELY TO OCCUR UNLESS THE CASE IS BROKEN OR SPILLED, THEN ONLY CONTACT WITH THE ACID IS LIKELY.

Explanation Of Carcinogenicity:

LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC IN ANIMALS AND POSSIBLY IN HUMANS.

Signs And Symptoms Of Overexposure:

CONTACT WITH SULFURIC ACID IS THE MOST LIKELY EXPOSURE, PRODUCING IRRITATION OR BURNS TO THE BODY TISSUE CONTACTED.

Medical Cond Aggravated By Exposure:

NONE

First Aid:

8 FIRST AID IS GIVEN FOR SULFURIC ACID CONTACT. EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. INGESTED:DO NOT INDUCE VOMITING. GIVE 2 LARGE GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

Spill Release Procedures:

IF ACID IS SPILLED, NEUTRALIZE. PLACE REMAINDER IN AN ACID RESISTANT CONTAINER FOR RECYCLE OF THE LEAD.

Neutralizing Agent:

SODIUM BICARBONATE OR LIME

Waste Disposal Methods:

DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL REGULATIONS. MANUFACTURER SUGGESTS THAT DISPOSAL MAY BE DONE BY FLUSHING NEUTRALIZED ACID TO DRAIN AND SENDING REMAINDER TO LEAD RECLAIMER. DO NOT INCINERATE!!!

Handling And Storage Precautions:

STORE IN COOL, DRY AREA. PROTECT FROM PHYSICAL DAMAGE. PROTECT TERMINALS FROM SHORT CIRCUITS.

Other Precautions:

READ MANUFACTURERS LITERATURE AND FOLLOW INSTRUCTIONS.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

Flash Point Text:

NON-FLAMMABLE

Autoignition Temp:

NONE

Autoignition Temp Text:

NONE

Lower Limits:

UNKNOWN

Upper Limits:

UNKNOWN

Extinguishing Media:

PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.

Fire Fighting Procedures:

FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE. 9

Unusual Fire/Explosion Hazard:

WHEN BEING CHARGED THIS BATTERY GENERATES HYDROGEN GAS WHICH MAY FORM EXPLOSIVE MIXTURES WITH AIR.

Physical/Chemical Properties

HCC:

Z4

NRC/State LIC No:

N/R

Net Prop WT For Ammo:

10

Boiling Point:

NONE

B.P. Text:

UNKNOWN

Melt/Freeze Pt:

NONE

M.P./F.P Text:

UNKNOWN

Decomp Temp:

NONE

Decomp Text:

UNKNOWN

Vapor Pres:

UNKNOWN

Vapor Density:

UNKNOWN

Volatile Org Content %:

NONE

Spec Gravity:

UNKNOWN

VOC Pounds/Gallon:

NONE

PH:

N/K

VOC Grams/Liter:

NONE

Viscosity:

UNKNOWN

Evaporation Rate & Reference:

UNKNOWN

Solubility in Water:

UNKNOWN

Appearance and Odor:

AUTOMOTIVE STYLE BATTERY

Percent Volatiles by Volume:

N/K

Corrosion Rate:

UNKNOWN

Conditions To Avoid Polymerization:

NOT RELEVANT

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

Other Information:

Information:N/P

Physical/Chemical Properties:

Information:N/P

Health Hazards Data:

Information:N/P

Control Measures:

Information:N/P

Fire and Explosion Hazard Information:

Information:N/P

Physical/Chemical Properties:

Information:N/P

Health Hazards Data:

Information:N/P

Control Measures:

Information:N/P

Fire and Explosion Hazard Information:

Information:N/P

Physical/Chemical Properties:

Information:N/P

Health Hazards Data:

Information:N/P

Control Measures:

Information:N/P

Fire and Explosion Hazard Information:

Information:N/P

Physical/Chemical Properties:

Information:N/P