

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-606/60676-86-0.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
60676-86-0
Code:
M

RTECS:
VV7328000
Code:
M

Name:
AMORPHOUS FUSED SILICA, SILICON DIOXIDE, QUARTZ,

Other REC Limits:
30 MG/CUM TOTAL DUST

OSHA PEL:
N/K
Code:
M

OSHA STEL:

Code:

ACGIH TLV:
0.1 MG/CUM (RESP) IC

Code:
M N/P

ACGIHSTEL:
EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem
Code:
1 ACGIH STEL:

Control Measures

Respiratory Protection:
NONE REQUIRED UNDER NORMAL CONDITIONS. WHEN CONCENTRATIONS OF SULFURIC ACID MIST ARE KNOWN TO EXCEED PEL, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION.

Ventilation:
ADEQUATE WELL VENTILATED AREA. IF MECHANICAL IS USED, COMPONENTS MUST BE ACID RESISTANT.

Protective Gloves:
RUBBER

Eye Protection:
CHEMICAL GOGGLES/FACE SHIELD

Other Protective Equipment:
Equipment ACID RESISTANT APRON, CLOTHING &BOOTS, PLASTIC ACID RESISTANT GLOVES W/ELBOW LENGTH GAUNTLET, EYE WASH STATION/SHOWERS

Work Hygienic Practices:
REMOVE/LAUNDER CONTAMINATED CLOTHING &SHOES BEFORE REUSE.

Supplemental Safety and Health:
REACTIVITY CONT'D: INCOMPATIBILITY: POTASSIUM NITRATE, PERMANGANATE PEROXIDES, NASCENT HYDROGEN.

WHEN BATTERY IS CHARGED HYDROGEN GAS IS EMITTED. THE LEL & UEL IS FOR HYDROGEN GAS: LEL: 4.1, UEL: 74.2 .

Health Hazards Data

LD50LC50Mixture:
N/P

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
YES 3

Carcinogenicity Inds - NTP:
YES

IARC:
YES

OSHA:
NO

Health Hazards Acute And Chronic:
LEAD COMPOUNDS: INHALATION: IRRITATION TO UPPER RESPIRATORY TRACT & LUNGS. INGESTION: SEVERE CRAMPING, SYSTEMIC TOXICITY. EYES: IRRITATION. CHRONIC: ANEMIA, NEUROPATHY, KIDNEY DAMAGE, REPRODUCTIVE CHANGES IN MALES/FEMALES, LIVER & NEUROLOGICAL DISEASES.

Explanation Of Carcinogenicity:
SEE INGREDIENTS.

Signs And Symptions Of Overexposure:
IRRITATION, PAIN, NAUSEA, VOMITING, DIARRHEA, CRAMPING, BURNS, HEADACHE, FATIGUE, LOSS OF APPETITE, MUSCULAR ACHES, WEAKNESS, SLEEP DISTURBANCES, IRRITABILITY, INFLAMMATION, WRIST DROP

Medical Cond Aggravated By Exposure:
LUNG & PULMONARY CONDITIONS, SKIN DISEASES; ECZEMA/DERMATITIS. KIDNEY, LIVER & NEUROLOGIC DISEASES.

First Aid:
SULFURIC ACID: INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGESTION: GIVE LARGE AMOUNTS OF WATER. DON'T INDUCE VOMITING. SKIN/EYES: FLUSH IMMEDIATELY W/LARGE AMOUNTS OF WATER FOR 15 MINS. LEAD:

INHALATION: REMOVE FROM EXPOSURE, GARGLE, WASH NOSE & LIPS. SKIN: WASH W/SOAP & WATER. EYES: FLUSH W/LARGE AMOUNTS OF WATER FOR 15 MINS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Spill Release Procedures:
S FLOW OF MATERIAL. SMALL: CONTAIN/ABSORB W/DRY SAND/EARTH/VERMICULITE. NEUTRALIZE W/SODA ASH/SODIUM BICARBONATE/LIME. WEAR ACID RESISTANT CLOTHING/BOOTS/GLOVES/FACE SHIELD. DON'T ALLOW DISCHARGE OF UNNEUTRALIZED ACID TO SEWER.

Neutralizing Agent:
SODA ASH, SODIUM BICARBONATE, LIME

Waste Disposal Methods:
SPENT BATTERIES: SEND TO SECONDARY LEAD SMELTER FOR RECYCLING. PLACE INTO SEALED CONTAINERS & DISPOSE AS HAZARDOUS WASTE. LARGE: WATER DILUTED SPILLS SHOULD BE MANAGED IN ACCORDANCE W/APPROVED LOCAL, STATE & FEDERAL REQUIREMENTS. UN2794, CORROSIVE.

Handling And Storage Precautions:
STORE IN COOL, DRY, WELL VENTILATED AREAS W/IMPERVIOUS SURFACES. STORE UNDER ROOF SEPARATE FROM INCOMPATIBLE MATERIALS. AVOID DAMAGE TO CONTAINERS.

Other Precautions:
STORE & HANDLE ONLY IN AREAS W/ADEQUATE WATER SUPPLY & SPILL CONTROL. KEEP AWAY FROM FIRE, SPARKS & HEAT. HANDLE CAUTIOUSLY & AVOID SPILLS. WEAR PROTECTIVE CLOTHING WHEN FILLING/HANDLING BATTERIES. AVOID CONTACT W/INTERNAL COMPONENTS.

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:
(SEE SUPP)

Upper Limits:
(SEE SUPP)

Extinguishing Media:
4 CO2, FOAM, DRY CHEMICAL

Fire Fighting Procedures:
IF BATTERIES ARE ON CHARGE, SHUT OFF POWER. USE POSITIVE PRESSURE, SCBA & ACID RESISTANT CLOTHING. WATER APPLIED TO ELECTROLYTE GENERATES HEAT & MAY SPATTER.

Unusual Fire/Explosion Hazard:
FLAMMABLE HYDROGEN GAS IS GENERATED DURING CHARGING & OPERATION OF BATTERIES. KEEP SPARKS/IGNITION SOURCES AWAY. DON'T ALLOW METALLIC MATERIALS TO HAVE CONTACT.

Physical/Chemical Properties

HCC:

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
203-240F

Melt/Freeze Pt:

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

Decomp Temp:

Decomp Text:
N/K

Vapor Pres:
11-17

Vapor Density:
>1

Volatile Org Content %:

Spec Gravity:
1.23-1.35

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
(BU AC=1):

Solubility in Water:
COMPLETE 5

Appearance and Odor:
CLEAR LIQUID W/A SHARP PENETRATING, PUNGENT ODOR. (ELECTROLYTE)

Percent Volatiles by Volume:
N/K

Corrosion Rate:
N/K

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
PROLONGED OVERCHARGE, SOURCES OF IGNITION, FIRE, SPARKS &HEAT

Materials To Avoid:
STRONG REDUCING AGENTS/METALS/SULFUR TRIOXIDE GAS/STRONG OXIDIZERS/WATER/STRONG ACIDS/BASES/HALIDES/HALOGENATES (SUPP)

Hazardous Decomposition Products:
SULFUR TRIOXIDE/CO/SULFURIC ACID MIST/SUFUR DIOXIDE/HYDROGEN/TOXIC METAL FUME/VAPOR/DUST/HIGHLY TOXIC ARSINE GAS.

Hazardous Polymerization Indicator:
NO

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

Other Information:N/P

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WARRANTY

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