

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-778/7784-18-1.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
7784-18-1

**Code:**  
M

**RTECS:**  
BD0725000

**Code:**  
M

**Name:**  
ALUMINUM FLUORIDE

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
2.5 PPM F

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
2.5 MG F/M3

**Code:**  
M

**ACGIHSTEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
USE RESPIRABLE FUME RESPIRATORY OR AIR SUPPLIED RESPIRATOR WHEN IN CONFINED SPACE OR LOCAL EXHAUST DOES NOT KEEP EXPOLUSRE BELOW RECOMMENDED EXPOSURE LIMIT.

**Ventilation:**  
USE ENOUGH LOC VENTILATION & LOCAL EX-HAUST @ ARC TO KEEP FUMES/GASES FROM WORKER'S BREATHING ZONE & GENERAL AREA.

**Protective Gloves:**  
SEE OTHER PROT EQPT.

**Eye Protection:**  
SEE OTHER PROT EQPT.

**Other Protective Equipment:**  
Equipment HAND/HEAD/BODY PROT TO PREVENT INJURY FROM RADIATION/SPAKRS/ELECT SHOCK;HELMET/FACESHIELD W/FIL LENS/FLASH GOGG/ETC.

**Work Hygienic Practices:**  
TRAIN WORKERS TO KEEP HEAD OUT OF FUMES.WASH HANDS AFT HANDLING.FOR SHADES START TOO DARK THEN TO LITER SHADE W/SUFF VIE

**Supplemental Safety and Health:**  
DECOMP PROD:COMPOSITION/QUALITY DEPENDENT UPON METAL BEING WELDED.PROCESS,PROCEDURE,ELCTRODES,COMPO/QUANT BEING EXPOSED TO,METAL COATINGS,#/VOL OF WELDERS,AMT/QUANT OF VENTI,HEAD POSITION,ATM CONTAMIN ANTS.RECOMMENDED TESTING WORK ATM.

## Health Hazards Data

**LD50LC50Mixture:**  
TLV: WELDING FUME IS 5 MG/M3

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ELECTRIC ARC-WELDING MAY CREATE FUMES/GASES CAN BE DANGEROUS. ARC RAYS CAN INJURE EYES & BURN SKIN. ELECTRIC SHOCK CAN KILL.

**Explanation Of Carcinogenicity:**  
CARCINOGENIC:NA.

**Signs And Symptoms Of Overexposure:**  
SHORT TERM TO WELDING FUMES-DIZZINESS, NAUSEA, DRYNESS & IRRT OF NOSE/EYES/THROAT, CHEST TIGHTNESS, FEVER, ALLERGIC REACTION. LONTER-SIDEROISIS, BELIEVED TO AFFECT PULMONARY FUNCTION. 5

**Medical Cond Aggravated By Exposure:**  
PULMONARY FUNCTION.

**First Aid:**  
CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY AMERICAN RED CROSS.

**Spill Release Procedures:**  
NOT APPLICABLE.

**Neutralizing Agent:**  
NOT RELEVANT.

**Waste Disposal Methods:**  
PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRO.DISCARD ANY PRODUCT RESIDUE,DISPOSABLE CNTNR OR LINER IN ENVIROM ACCEPTABLE MANNER,IN FULL COMPLAANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
USE EXH SYS.MAKE SURE INHALED AIR DOES NOT CONTAIN FUME CONSTITUENTS ABOVE PEL.SEE AMER STD Z49.1-1983(SAF IN WELD/ CUT)& WELD HANDBOOK VOL1,CHAP 9.

**Other Precautions:**  
SEE AWS F1.1 & AWS F1.2-1985 FROM AMER WELDING SOC. SEE ALSO AWS PUBLICATION:"FUMES & GASES IN THE WELDING ENVRIO". ALL LITERURE MENTIONED CAN BE OBTAIN FROM:AM WELDING SOC INC, 550 NW LEJUNE RD, POB 351040, MIAMI, FL 33135, 305-443-9353.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
N/A

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/A

**Upper Limits:**  
N/A

**Extinguishing Media:**  
SEE BELOW. 6

**Fire Fighting Procedures:**  
SEE BELOW.

**Unusual Fire/Explosion Hazard:**  
WELDING ARC & SPARKS CAN IGNITE COMBUSTABLES/FLAMMABLES. REFER TO AMERICAN NAT STD Z49.1 FOR FIRE PREVENTION DURING WELDING & ALLIED PROCEDURES.

## Physical/Chemical Properties

**HCC:**  
7 N1

**NRC/State LIC No:**  
N/R

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/A

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/A

**Vapor Pres:**  
N/A

**Vapor Density:**  
N/A

**Volatile Org Content %:**

**Spec Gravity:**  
N/A

**VOC Pounds/Gallon:**

**PH:** N/A

**VOC Grams/Liter:**

**Viscosity:**  
N/A

**Evaporation Rate & Reference:**  
N/A

**Solubility in Water:**  
N/A

**Appearance and Odor:**  
COATED METAL ROD. NO ODOR.

**Percent Volatiles by Volume:**  
N/A

**Corrosion Rate:**  
N/A

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
NONE UNLESS OTHERWISE SPECIFIED.

**Materials To Avoid:**  
NONE.

**Hazardous Decomposition Products:**  
(SEE SUPPLEM)REASONBLY EXPECTED FUME:PRIMARY OXIDES OF FE,2ND OXIDES OF CR,NI,MN,SI,MO.GAS:CO,CO2,OZONE,NITROGEN OXIDES.

**Hazardous Polymerization Indicator:**  
NO

**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