

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-778/7782-41-4.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

7782-41-4

Code:

M

RTECS:

LM6475000

Code:

M

Name:

FLUORINE (SARA III)

Other REC Limits:

NONE RECOMMENDED

OSHA PEL:

0.1 PPM

Code:

M

OSHA STEL:

Code:

ACGIH TLV:

1 PPM/ 2 STEL; 9394

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

USE RESPIRABLE FUME RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN CONFINED SPACES OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE BELOW TLV.

Ventilation:

USE ENOUGH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH, TO KEEP THE FUMES & GASES BELOW THE TLV IN THE WORKERS ZONE.

Protective Gloves:

WELDER'S GLOVES, ARM PROTECTORS.

Eye Protection:

HELMET, FACE SHIELD, FILETR LENSES.

Other Protective Equipment:

Equipment WEAR HEAD, HAND AND BODY PROTECTION (WELDER'S GLOVES, PROTECTIVE FACE SHIELD, APRONS, HATS, SUBSTANCIAL DARK CLOTHING).

Work Hygienic Practices:

WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health:

NONE.

Health Hazards Data

LD50/LC50 Mixture:

PEL: WELDING FUME IS 5 MG/M3

Route Of Entry Inds - Inhalation:

YES

Skin:

YES

Ingestion:

NO

Carcinogenicity Inds - NTP:

NO

IARC:

YES

OSHA:

NO

Health Hazards Acute And Chronic:

OVEREXPOSURE TO THE GASES, FUMES AND DUST MAY INCLUDE IRRITATION OF THE EYES, LUNGS, NOSE & THROAT. SOME TOXIC GASES ASSOCIATED WITH WELDING MAY CAUSE PULMONARY EDEMA, ASPHYXIATION, AND DEATH. THE PRESENCE OF CHROMIUM/CHROMATE IN FUME CAN CAUSE IRRITATION OF NASAL MEMBRANES & SKIN.

Explanation Of Carcinogenicity:

NICKEL AND CHROMIUM MUST BE CONSIDERED POSSIBLE CARCINOGENS UNDER OSHA (29CFR910.1200), IARC.

Signs And Symptoms Of Overexposure:

ACUTE OVEREXPOSURE MAY INCLUDE SIGNS AND SYMPTOMS SUCH AS WATER EYES, NOSE AND THROAT IRRITATION, HEADACHE, DIZZINESS, DIFFICULTY IN BREATHING, FREQUENT COUGHING OR CHEST PAIN. THE PRESENCE OF NICKEL COMPOUNDS IN FUME CAN CAUSE METALLIC TASTE, NAUSEA, TIGHTNESS OF CHEST, FEVER AND ALLERGIC REACTION.

Medical Cond Aggravated By Exposure:

INDIVIDUALS WITH ALLERGIES OR IMPAIRED RESPIRATORY FUNCTION MAY HAVE SYMPTOMS WORSENED BY EXPOSURE TO WELDING FUMES. HOWEVER, SUCH REACTIONS CANNOT BE PREDICTED.

First Aid:

IN CASE OF EMERGENCY CALL FOR MEDICAL AID. EMPLOY FIRST AID TECHNIQUES RECOMMENDED BY THE RED CROSS. IF BREATHING IS DIFFICULT GIVE OXYGEN & CALL PHYSICIAN. FOR ELECTRIC SHOCK DISCONNECT & TURN OFF POWER. IF NOT BREATHING BEGIN ARTIFICIAL RESPIRATION, (MOUTH-TO-MOUTH). IF NO DETECTABLE PULSE BEGIN CARDIO PULMONARY RESUSCITATION. IMMEDIATELY CALL PHYSICIAN. FOR ARC BURN APPLY COLD, CLEAN COMPRESSES

Spill Release Procedures:

NOT APPLICABLE

Neutralizing Agent:

NOT APPLICABLE

Waste Disposal Methods:

PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Handling And Storage Precautions:

NONE SPECIFIED BY MANUFACTURER. 4

Other Precautions:

WELDING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. THE COMPOSITION AND QUANTITY OF BOTH ARE DEPENDENT UPON THE MATERIAL BEING WORKED, THE PROCESS, PROCEDURES AND COMBUSTIBLES USED.

Fire and Explosion Hazard Information

Flash Point Method:

N/P

Flash Point:

N/P

Flash Point Text:

NONE

Autoignition Temp:

N/R

Lower Limits:

N/R

Upper Limits:

N/R

Extinguishing Media:

THIS PRODUCT WILL NOT BURN. HOWEVER, WELDING ARCS & SPARKS CAN IGNITE COMBUSTIBLES & FLAMMABLE MATERIAL.

Fire Fighting Procedures:

USE THE EXTINGUISHING MEDIA RECOMMENDED FOR THE BURNING MATERIAL AND FIRE SITUATION.

Unusual Fire/Explosion Hazard:

NOT APPLICABLE

Physical/Chemical Properties

HCC:

N1

NRC/State Lic No:

N/R

Net Prop WT For Ammo:

N/R

Boiling Point:

N/R

B.P. Text:

N/R

Melt / Freeze Pt:

N/R

M.P/F.P Text:

N/R

Decomp Temp:

N/R

Decomp Text:

UNKNOWN

Vapor Pres:

N/R

Vapor Density:

N/R

Volatile Org Content %:

N/R

Spec Gravity:

N/R

VOC Pounds/Gallon:

N/R

PH:

N/R

VOC Grams/Liter:

N/R

Viscosity:

N/R

Evaporation Rate & Reference:

N/R

Solubility in Water:

N/R

Appearance and Odor:

SOLID STAINLESS STEEL CORE WIRE WITH FLUX COATING, ODORLESS.

Percent Volatiles by Volume:

N/R

Corrosion Rate:

N/R

Decomposition Rate:

N/R

Conditions To Avoid:

NOT APPLICABLE

Physical/Chemical Properties:

N/R

Stability Indicator:

N/R

Stability Condition To Avoid:

NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid:

NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:

N/R

Hazardous Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NOT APPLICABLE

Toxicological Information:

N/P

MSDS Transport Information

Information:

N/P

Regulatory Information:

N/P

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information

Other Information:

N/P

Other Information:

N/P

Other Information:

N/P

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The above information is believed to be correct but does not purport to be all inclusive and shall not be used