

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-744/7440-37-1.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
7440-37-1
Code:
M

RTECS:
CF2300000
Code:
M

Name:
ARGON 1 Environmental Wt: Other REC Limits: NO

Other REC Limits:
N/P

OSHA PEL:
5 MG/M3 RESP
Code:
M

OSHA STEL:
N/P
Code:

ACGIH TLV:
5 MG/M3
Code:
T

ACGIHSTEL:
10 MG/M3
Code:
T

Control Measures

Respiratory Protection:
USE AIR PURIFYING OR AIR-SUPPLIED RESPIRATORS, AS APPROPRIATE, WHERE THE LOCAL NA/OR GENERAL EXHAUST VENTILATION IS NOT ADEQUATE TO KEEP WORKER EXPOSURE BELOW THE APPLICABLE TLV'S DURING WELDING OPERATIONS USING ARGON. AIR SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES. THE RESPIRATORY PROTECTION USE MUST COMPLY WITH OSHA RULES.

Ventilation:
USE LOCAL EXHAUST SYSTEM, IF NECESSARY TO MAINTAIN CONCENTRATION OF HAZARDOUS FUMES AND GASES BELOW APPLICABLE TLV'S.

Protective Gloves:
WELDING GLOVES RECOMMENDED.

Eye Protection:
HELMET OR FACE SHIELD WITH FILTER LENS

Other Protective Equipment:
Equipment AS NEEDED, WEAR HAND, HEAD AND BODY PROTECTION WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.

Work Hygienic Practices:
WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKING.

Supplemental Safety and Health:
TRAIN WORKER NOT TO TOUCH LIVE ELECTRICAL PARTS. 3

Health Hazards Data

LD50LC50Mixture:
TLV 0.5 MG/M3 (WELDING FUMES)

Route Of Entry Inds - Inhalation:
YES

Skin:
NO

Ingestion:
NO

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
INHALATION: ASPHYXIAN. MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING AND UNCONSCIOUSNESS. NOTE: THERE ARE ADDITIONAL HEALTH HAZARDS WHEN PRODUCT IS USED IN WELDING AND CUTTING.

Explanation Of Carcinogenicity:
THIS PRODUCT IS NOT LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN, MUTAGEN, TERATOGEN OR NEUROTOXIN.

Signs And Symptoms Of Overexposure:
HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING AND UNCONSCIOUSNESS.

Medical Cond Aggravated By Exposure:
A KNOWLEDGE OF THE AVAILABLE TOXICOLOGICAL INFORMATION & THE PHYSICAL PROPERTIES SUGGEST THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

First Aid:
SKIN: FLUSH WITH WATER. EYES: FLUSH WITH WATER. INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN. NOTE TO PHYSICIAN: THIS PRODUCT IS INERT. THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION.

Spill Release Procedures:
ARGON IS AN ASPHYXIAN. EVACUATE ALL PERSONNEL FROM DANGER AREA. USE SELF CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF CYLINDER IF WITHOUT RISK. VENTILATE AREA OF LEAK OR MOVE CYLINDER TO WELL VENTILATED AREA.

Neutralizing Agent:
N/P

Waste Disposal Methods:
SLOWLY RELEASE INTO THE ATMOSPHERE. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS .

Handling And Storage Precautions:
CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY. USE WITH EQUIPMENT RATED TO ADEQUATELY WITHSTAND PRESSURES TO BE ENCOUNTERED. 2

Other Precautions:
DO NOT GROUND CYLINDER. DO NOT STRIKE ARC ON CYLINDER.

Fire and Explosion Hazard Information

Flash Point Method:
N/P

Flash Point:

Flash Point Text:
NONFLAMMABLE

Autoignition Temp:

Autoignition Temp Text:
N/K

Lower Limits:
NOT GIVEN

Upper Limits:
NOT GIVEN

Extinguishing Media:
ARGON CANNOT CATCH FIRE. USE MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:
EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY COOL CONTAINERS WITH WATER SPRAY FROM SAFE DISTANCE. SHUT OFF LEAK IF WITHOUT RISK.

Unusual Fire/Explosion Hazard:
CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. NO PART OF CONTAINER SHOULD BE SUBJECTED TO TEMPERATURE HIGHER THAN 125F. MOST CONTAINERS ARE PROVIDED WITH A PRESSURE RELIEF DEVICE DESIGNED TO VENT CONTENTS WHEN THEY ARE EXPOSED TO ELEVATED TEMPERATURES.

Physical/Chemical Properties

HCC:
G3

NRC/State LIC No:

Net Prop WT For Ammo:

Boiling Point:
=-185.8C, -302.6F

B.P. Text:

Melt/Freeze Pt:
=-189.1C, -308.6F

M.P/F.P Text:

Decomp Temp:

Decomp Text:
UNKNOWN

Vapor Pres:
GAS

Vapor Density:
1.378

Volatile Org Content %:

Spec Gravity:
GAS

VOC Pounds/Gallon:

PH: N/K

VOC Grams/Liter:

Viscosity:
N/P

Evaporation Rate & Reference:
NOT GIVEN

Solubility in Water:
NEGLECTIBLE

Appearance and Odor:
COLORLESS, AND ODOR: GAS AT NORMAL TEMPERATURE AND PRESSURE

Percent Volatiles by Volume:
100 %

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
DO NOT STRIKE ARC ON CYLINDER. DO NOT GROUND CYLINDER

Materials To Avoid:
NONE CURRENTLY KNOWN. ARGON IS CHEMICALLY INERT.

Hazardous Decomposition Products:
OZONE AND NITROGEN OXIDES MAY BE FORMED BY RADIATION FROM THE ARC.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NONE. WILL NOT OCCUR.

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