MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses.

Click http://www.lookchem.com/cas-778/7783-41-7.html for suppliers of this product.

7783-41-7 Code:

Composition/Information on Ingredient

RTECS: RS2100000

Code:

Name:

N/K

OSHA PEL: C 0.05 PPM Code:

OSHA STEL:

2 OSHA STEL:

ACGIH TLV: C 0.05 PPM Code: M

ACGIHSTEL:

Ventilation:

Protective Gloves: LEATHER GLOVES.

Other Precautions:

Autoignition Temp:

Lower Limits:

Upper Limits:

Extinguishing Media:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard:

MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Physical/Chemical Properties

WHEN TRYING TO EXTINGUISH ANY FIRE.

N/K

NONE.

HCC:

NRC/State LIC No:

Boiling Point:

Melt/Freeze Pt:

M.P/F.P Text:

Decomp Temp:

Decomp Text:

Vapor Pres: N/K

Vapor Density: **SUPDAT**

Spec Gravity:

PH: N/K

Viscosity: N/P

NOT KNOWN

SOLUBLE

Solubility in Water:

Corrosion Rate:

Stability Indicator:

Materials To Avoid: STRONG REDUCING AGENTS.

NOT ESTABLISHED. 6

NOT RELEVANT.

Information:N/P

Information:N/P

Appearance and Odor: CLEAR GAS, ODORLESS.

Percent Volatiles by Volume:

Reactivity Data

Stability Condition To Avoid:

HEATING OR DAMAGING GAS CYLINDERS.

Hazardous Decomposition Products:

Hazardous Polymerization Indicator:

Conditions To Avoid Polymerization:

Toxicological Information

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

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Other Information:N/P

MSDS Transport Information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

WARRANTY

terms and conditions of sale.

VOC Pounds/Gallon:

VOC Grams/Liter:

Evaporation Rate & Reference:

Volatile Org Content %:

N/K

N/K

B.P. Text: N/K

Net Prop WT For Ammo:

Autoignition Temp Text:

NΡ Code:

Code:

ACGIHTLV: C 0.05 PPM

Control Measures

LEVELS ARE DISP LACED TO LEVLES <19.5%.

HANDLE IN AN AREA WITH GOOD GENERAL ROOM VENTILATION.

Respiratory Protection:

OXYGEN DIFLUORIDE

Other REC Limits:

Equipment ANSI APPRVD EYE WASH DELUGE SHOWER (FP N). LEATHER APRON. LAB COAT. **Work Hygienic Practices:** NONE SPECIFIED BY MANUFACTURER, 5 Supplemental Safety and Health: DISPOSAL, CONSULT APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

Eye Protection:

ANSI APPRVD CHEM WORKERS GOGGS FULL LENGTH FACESHIELD (FP N). Other Protective Equipment:

MFR TRADE NAME/PART NO: 12% 02, BALANCE NITROGEN. VAP DENS: SIMILAR TO AIR. WASTE DISP METH: PROPER

NIOSH APPROVED AIR SUPPLYING RESPIRATORY PROT W/ESCAPE BOTTLES/NIOSH APPRVD SELF CONTAINED BREATHNG APPARATUS MAY BE REQD IF EXPOS TO HAZ INGREDS MAY EXCEED RECOGNIZED SAFE LIMITS/OXYG

Health Hazards Data LD50LC50Mixture: NONE SPECIFIED BY MANUFACTURER. Route Of Entry Inds - Inhalation: Skin: NO

Ingestion: NO Carcinogenicity Inds - NTP: NO IARC: NO

OSHA: **Health Hazards Acute And Chronic:**

ACUTE: CARBON DIOXIDE: TARGET ORGANS: EYES & SKIN. EYE: CRYOGENIC BURNS MAY RSLT FROM CONT W/GAS OR CYL @ POINT OF EXIT FROM CYL. SKIN: CRYOGENIC BURNS MAY RSLT FROM CONT W/GAS OR CYL @ POINT OF EXIT FROM CYL. INHAL: MAY CAUSE ASPHY. SIGNS& SYMPS OF EXPOS: HDCH, SHORTNESS OF BREATH, NAUS, VOMIT & DIZZ. OXYGEN(0-21%): TARGET ORGANS: EYES & SKIN. ACUTE: EYE: CRYOGENIC BURNS MAY RSLT FROM CONT W/GAS OR CYL @ PONT OF EXIT FROM CYL. SKIN: CRYOGENIC BURNS MAY RSLT FROM CONT W/GAS OR CYL @ POINT **Explanation Of Carcinogenicity:** 3 NOT RELEVANT.

Signs And Symptions Of Overexposure: HLTH HAZ: POINT OF EXIT FROM CYL. SKIN CONT: CRYOGENIC BURNS MAY RSLT FROM CONT W/GAS OR CYL AT POINT OF EXIT FROM CYL. INHAL: MAY CAUSE ASPHY IF IT DISPLACES OXYG IN AIR. SIGNS & SYMPS OF EXPOS: HDCH, DIZZ, TUNNEL VISION, & NUMBING & TINGLING OF EXTREMITIES. CHRONIC: CARBON DIOXIDE: LONG-TERM EXPOS MAY AFFECT ACID-BASE BALANCE, RESULTING IN ACIDOSIS AND CAN AFFECT CALCIUM METABOLSM. **Medical Cond Aggravated By Exposure:** NOT ESTABLISHED. First Aid:

INGEST: CALL MD IMMEDIATELY (FP N). EYES: GET MED ATTN IMMED. IMMEDIATELY FLUSH W/POTABLE WATER FOR AT LST 15 MINS, SEEK ASSISTANCE FROM MD (FP N). SKIN: SEEK MED ADVICE IMMED FOR CRYOGENIC BURNS. FLU SH W/COPIOUS AMOUNTS OF WATER. CALL MD.(FP N). INHAL: REMOVE TO FRESH AIR.

Spill Release Procedures: NON-FLAMMABLE. VAP DENS RELATIVE TO AIR: SIMILAR. CLEAN-UP PROCEDURES: ALLOW GAS TO VENTILATE FROM AREA UNTIL NORMAL BREATHING AIR CONDITIONS ARE MET. RELEASES MUST BE HNDLD BY TRAINED PERSONNEL. **Neutralizing Agent:** NONE SPECIFIED BY MANUFACTURER. **Waste Disposal Methods:** DISPOSE OF I/A/W FED, STATE & LOC REGS. ADDNL INFO REGARDING DISP: PROD IS NOT CLASSIFIED AS HAZ WASTE ACCORDING TO

EPA REGS (40 CFR 261). PROD DOES NOT CNTN HEAVY METALS, VOLAT/SEMI-VOLAT ORG CMPDS, PHENOLS, PESTICIDES/POLYCHLORINATED BIPHENYLS (THAT IS, NO CHEMS ON EPA TOXIC POLLUTANT LIST(40 CFR 401.15), HOWEVER, IN ORDER TO DETERM (SUPPDATA) **Handling And Storage Precautions:** KEEP CYLINDERS CLOSED WHEN NOT IN USE.

IN ORDER TO MINIMIZE RISK OF UNCONTROLLED RELEASE GAS, ALWAYS SECURE FULL GAS CYLINDERS AND PROTECT CYLINDERS AND CYLINDER VALVES FROM DAMAGE. THIS PRODUCT SHOULD BE HANDLED IN ACCORDANCE WITH GOOD LA BORATORY PRACTICES.

Fire and Explosion Hazard Information Flash Point Method: N/P 4 Flash Point: **Flash Point Text:** NOT FLAMMABLE

USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). STANDARD FIRE-FIGHTING PRECAUTIONS SHOULD BE FOLLOWED