

OXYGEN

MSDS Number

BHCZY

National Stock Number

6830-00-169-0804

Product Name

OXYGEN

Manufacturer

NATIONAL WELDERS SUPPLY CO INC

Product Identification

Product ID:OXYGEN

MSDS Date:01/01/1991

FSC:6830

NIIN:00-169-0804

MSDS Number: BHCZY

Responsible Party

NATIONAL WELDERS SUPPLY CO INC

810 GESCO

CHARLOTTE , NC 28231

US

Emergency Phone: 800-866-4422/800-424-9300(CHEMTREC)

Info Phone: 704-333-5475(X308)/FAX 344-1711

Cage: 18264

Contractor

NATIONAL WELDERS SUPPLY CO INC

31007

CHARLOTTE, NC 28231

US

704-333-5475

Cage: 18264

Ingredients

OXYGEN

CAS: 7782-44-7

RTECS: RS2060000

FEDERAL SPECIFICATION INDICATES TY I, OXYGEN GAS SHALL

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:NOT RELEVANT

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE- BREATHING HIGH CONCENTRATIONS (GREATER THAN 75 MOLAR %) CAUSES SYMPTOMS OF HYPEROXIA WHICH INCLUDE CRAMPS, NAUSEA, DIZZINESS, HYPOTHERMIA, RESPIRATORY DIFFICULTIES, FAINTING SPELLS & CONVULSION S CAPABLE OF LEADING TO

DEATH. CONCENTRATIONS BETWEEN 25 & 75 % MAY CAUSE INFLAMMATION.
CHRONIC- NOT KNOWN.

Explanation of Carcinogenicity: OXYGEN IS NOT LISTED AS A CARCINOGEN BY THE IARC, NTP OR OSHA.

Effects of Overexposure: BREATHING HIGH CONCENTRATIONS (GREATER THAN 75 MOLAR %) CAUSES SYMPTOMS OF HYPEROXIA WHICH INCLUDE CRAMPS, NAUSEA, DIZZINESS, HYPOTHERMIA, RESPIRATORY DIFFICULTIES, FAINTING SPELLS & CONVULSIONS CAPABLE OF LEADING TO DEATH. CONCENTRATIONS BETWEEN 25 & 75 % MAY CAUSE INFLAMMATION.

First Aid

First Aid: PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO OXYGEN. RESCUE PERSONNEL SHOULD BE AWARE OF EXTREME FIRE HAZARD ASSOCIATED WITH OXYGEN-RICH ATMOSPHERES. CONSCIOUS PERSONS SHOULD BE MOVED TO FRESH AIR. THEY SHOULD BE KEPT WARM & QUIET. UNCONSCIOUS PERSONS SHOULD BE MOVED TO FRESH AIR & GIVEN ASSISTED RESPIRATION. TREATMENT SHOULD BE SYMPTOMATIC & SUPPORTIVE.

Fire Fighting

Flash Point: NON-FLAMMABLE

Extinguishing Media: WATER SPRAY, CO₂, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures: WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. MOVE CONTAINERS AWAY IF POSSIBLE. STOP FLOW OF OXYGEN WHICH IS SUPPORTING THE FIRE.

Unusual Fire/Explosion Hazard: ACCELERATES COMBUSTION. CONTACT WITH EASILY OXIDIZABLE ORGANIC/COMBUSTIBLE MATERIALS MAY RESULT IN IGNITION, VIOLENT COMBUSTION OR EXPLOSION.

Accidental Release

Spill Release Procedures: EVACUATE PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. STOP LEAK IF YOU CAN DO IT WITHOUT RISK. ISOLATE AREA UNTIL GAS HAS DISPERSED. KEEP COMBUSTIBLE MATERIALS AWAY FROM SPILLED MATERIAL. STAY UPWIND. VENTILATE CLOSED SPACES.

Neutralizing Agent: NONE

Handling

Handling and Storage Precautions: STORAGE- STORE IN COOL, DRY WELL VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS & AWAY FROM FULL/EMPTY CYLINDERS CONTAINING FLAMMABLE PRODUCTS.

Other Precautions: STORE CYLINDERS IN UPRIGHT POSITION & FIRMLY SECURED. AVOID TEMPERATURES ABOVE 130F (54C). SEGREGATE FULL & EMPTY CYLINDERS. USE A "FIRST IN-FIRST OUT" INVENTORY SYSTEM. USE ONLY IN WELL VENTILATED AREA. DO NOT DRAG, SLIDE OR ROLL CYLINDER.

Exposure Controls

Respiratory Protection: NOT RELEVANT

Ventilation: LOCAL EXHAUST TO PREVENT ACCUMULATION ABOVE 25 MOLAR PERCENT.

Protective Gloves: AS REQUIRED; ANY MATERIAL

Eye Protection: SAFETY GOGGLES OR GLASSES

Other Protective Equipment: SAFETY SHOES

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING CYLINDERS.

Supplemental Safety and Health

OXYGEN SHOULD NOT BE USED AS A SUBSTITUTE FOR COMPRESSED AIR IN PNEUMATIC EQUIPMENT SINCE THIS TYPE GENERALLY CONTAINS FLAMMABLE LUBRICANTS. EQUIPMENT TO CONTAIN OXYGEN MUST BE "CLEANED FOR OXYGEN SERVICE". COMPRESSED GAS CYLINDERS SHOULD NOT BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSED GASES.

Chemical Properties

HCC: G4

Boiling Pt: B.P. Text: -297F, -183C

Melt/Freeze Pt: M.P/F.P Text: -362F, -219C

Vapor Density: 1.11

Spec Gravity: 0.0828 LB/FT³

Evaporation Rate & Reference:NOT RELEVANT
Solubility in Water:SLIGHTLY
Appearance and Odor:COLORLESS, ODORLESS GAS

Stability

Stability Indicator/Materials to Avoid:YES
ALL FLAMMABLE MATERIALS
Stability Condition to Avoid:HEATING CYLINDERS TO INCREASE FLOW RATE
Hazardous Decomposition Products:NONE

Disposal

Waste Disposal Methods:DO NOT ATTEMPT TO DIPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER OR CALL THE EMERGENCY PHONE # OF SUPPLIER/MFR.

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