

MATERIAL SAFETY DATA SHEET

31420

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME ALABAMA OXYGEN COMPANY, INC.		EMERGENCY TELEPHONE NO. 205/428-9111
ADDRESS (Number, Street, City, State, and ZIP Code) 2610 18th Avenue, North, Bessemer, Alabama 35020		
CHEMICAL NAME AND SYNONYMS NITROGEN	TRADE NAME AND SYNONYMS	
CHEMICAL FAMILY Diatomic Gas	FORMULA N ₂	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

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SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	-321	SPECIFIC GRAVITY (H ₂ O=1)	.303
VAPOR PRESSURE (mm Hg.)	760	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	.967	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	.023 $\frac{\text{vol.}}{\text{vol.}}$		
APPEARANCE AND ODOR	Colorless and odorless gas and liquid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) None	FLAMMABLE LIMITS None	Lel	Uel
EXTINGUISHING MEDIA None required			
SPECIAL FIRE FIGHTING PROCEDURES Does not support combustion; gas cylinders should be removed from exposure to fire or cooled with water as severe overheating can cause cylinders to burst.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

None

EFFECTS OF OVEREXPOSURE

Asphyziation; contact with liquid can cause cold contact burns

EMERGENCY AND FIRST AID PROCEDURES

Resuscitation; treat cold contact burns as frostbite

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

INCOMPATIBILITY (Materials to avoid)

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Ventilate area; avoid contact of liquid with skin

WASTE DISPOSAL METHOD

Vent large quantities to atmosphere in a well ventilated area.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (See entry) enclosed areas only.

VENTILATION

LOCAL EXHAUST

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

Asbestos

EYE PROTECTION

Visor

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store all nitrogen containers in a well ventilated area away from sources of heat and out of traffic.

OTHER PRECAUTIONS