

MATERIAL SAFETY DATA SHEET

OS-20
OXYGEN SCAVENGER

3 HMIS HEALTH
1 HMIS FLAMMABILITY
0 HMIS REACTIVITY
C HMIS PERSONAL PROTECTION

SECTION I - IDENTIFICATION

COMPANY NAME..... B.B. CHEMICALS, INC. 16107 W. UNIVERSITY, ODESSA, TEXAS 79763
PHONE NUMBER..... 432-381-2595
EMERGENCY PHONE NUMBER 800-424-9300
EFFECTIVE DATE..... September, 1998
TRADE NAME OS-20
CHEMICAL FAMILY Oxygen Scavenger
CAS NUMBER..... 10192-30-0
CHEMICAL FORMULA Confidential

SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	%	TLV (Units)	PROD. CAS #
Ammonium Bisulfite	60-70	5 ppm	101902-30-0

SECTION III - PHYSICAL DATA

BOILING Point(F)..... 212 F
FREEZING POINT (F) ND
VAPOR PRESSURE (mm Hg)..... ND
VAPOR DENSITY (Air=1)..... ND
VOLATILITY/VOL(%) N/D
SOLUBILITY IN H2O..... Complete
APPEARANCE/ODOR..... Clear - yellow-green solution with a slight Sulfur Dioxide odor.
SPECIFIC GRAVITY (H2O=1)..... 1.375 - 1.395
DENSITY (G/ML)..... 639 # per Drum
PH..... 4.5 - 5.5

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT..... N/A (Non-flammable)
LOWER FLAME LIMIT..... ND
HIGHER FLAME LIMIT..... ND
EXTINGUISH MEDIA In case of fire, use water, foam, dry chemical or CO2.
UNUSUAL FIRE HAZARD Extremely hazardous!! Danger when decomposed under heat resulting in sulfur dioxide emissions. Drums or pails may explode from internal pressure if confined to fire area. Keep people away, cool with water to minimize danger.

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SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 5 ppm Based on Sulfur Dioxide

ROUTES OF ENTRY	INHALATION? Irritant	SKIN? Corrosive	INGESTION? Irritant
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HEALTH HAZARDS Acute, Corrosive to skin, eyes, and mucous membranes.

CARCINOGENICITY No	NTP? No	IARC MONOGRAPHS? No	OSHA REGULATED No
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OVER EXPOSURE EFFECTS Unknown

FIRST AID PROCEDURES..... In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. If inhaled, remove fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficult, give oxygen. Get medical attention. If swallowed, do NOT induce vomiting and get IMMEDIATE medical attention. If Swallowed, Induce Vomiting Immediately By Giving Two Glasses Of Water And Sticking Finger Down Throat. Never Give Anything By Mouth To An Unconscious Person.

SECTION VI - REACTIVITY DATA

CHEMICAL STABILITY Stable
CONDITIONS TO AVOID Strong mineral acids/ strong bases
INCOMPATIBLE MATERIALS Strong reducing agents
DECOMPOSITION PRODUCTS Heat or acids release sulfur dioxide and ammonia.
HAZARDOUS POLYMERIZATION Will not occur
POLYMERIZATION AVOID None

SECTION VII - SPILL OR LEAK PROCEDURE

FOR SPILL Pick up with absorbent material. Store as hazardous waste.
WASTE DISPOSAL METHOD EPA approved hazardous waste disposal site.

SECTION VIII - SPECIAL PROTECTION

RESPIRATORY PROTECTION NIOSH approved Organic Vapor Mask recommended
VENTILATION Local exhaust
MECHANICAL EXHAUST Required in closed areas.
LOCAL EXHAUST Desired
PROTECTIVE GLOVES Wear impervious gloves.
EYE PROTECTION Use goggles or face shield if splashing is likely.
OTHER PROTECTIVE EQUIPMENT Chemical type apron recommended.

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SECTION IX - SPECIAL HANDLING AND DOT

HANDLING AND STORAGE..... Never use pressure to empty. Drum is not a pressure vessel. Drum must not be washed out or used for other purposes. Keep container closed when not in use. Store away from ignition sources.

PRECAUTIONARY MEASURES..... Deep away from heat, sparks and flame. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing.

HAZARD CLASS..... Corrosive 8

DOT SHIPPING NAME CORROSIVE LIQUID, Ammonium Bisulfite Solution, 8, NA2693, PGIII guide 154

REPORTABLE QUANTITY (RQ)..... 5000#

UN NUMBER None

NA # NA2693

PACKAGING SIZE..... Bulk and Drums

FOOT NOTES

N/A=NOT APPLICABLE - N/D=NO DATA
AVAILABLE <=LESS THAN - >=GREATER
THAN

PREPARED BY B.B. CHEMICALS, INC. (432) 381-2595
REVISED DATE..... January 9, 2001

T. Product health and safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein is based on data available to us, and is believed to be accurate, although no guarantee or warranty is provided or implied by the company in this respect. Since the use of this product is within the exclusive control of the user, it is the user's responsibility to determine the conditions of safe use. Such conditions must comply with all governmental regulations. All material in this product are produced in compliance with public law 94-469. (Also known as the "Toxic Substance Control Act" of 1976). **MUST COMPLY WITH ALL GOVERNMENTAL REGULATIONS. ALL MATERIALS IN THIS PRODUCT ARE PRODUCED IN COMPLIANCE WITH PUBLIC LAW 94-469. (ALSO KNOWN AS THE "TOXIC SUBSTANCE CONTROL ACT" OF 1976).**

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TRADE NAME OS-20

SIGNAL WORD..... WARNING!

STATEMENT OF HAZARD Corrosive
Causes Eye Irritation

DOT LABEL REQUIRED Corrosive

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ENVIRONMENTAL DATA SHEET

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SPECIAL NOTICE: In accordance with 40 CFR 372.45, this product contains the following materials which have been classified as TOXIC under SARA Title III, Section 313. This page is a part of the Material Safety Data Sheet describing the above named product and shall not be detached. Any reproduction or distribution of this Material Safety Data Sheet after January 1, 1989 must include this page.

SECTION XI - SARA TITLE III, SECTION 313

TOXIC CHEMICALS	%	PROD. CAS #
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NONE

SECTION X - ENVIRONMENTAL DATA

EPA HAZARD FIRE
CERCLA RQ VALUE..... NONE
SARA TPQ NONE
SARA RQ NONE
RCRA HAZARDOUS WASTE..... Toluene
CLEAN AIR NONE
CLEAN WATER NONE