

MSDS Material Safety Data Sheet B-542 Liquid Oxygen Scavenger

24 Hour Emergency Telephone 3E Company (800) 451-8346

NOTE: 3E Company emergency number to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident. For routine questions or application information , please call Mid-West Solutions 219-661-8230

Specific Gravity: (WATER=1) 1.20 - 1.37 @ 60 °F

Percent Volatile: NOT AVAILABLE

pH Neat: 3.5 - 5.5

Revision Date: August 1, 2005

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SECTION I - PRODUCT IDENTIFICATION

Product/Chemical Name: B-542 LIQUID OXYGEN SCAVENGER FOR BOILER FEED WATER

Proper Shipping Name: BISULFITES, AQUEOUS SOLUTIONS, N.O.S. (CONTAINS SODIUM BISULFITE)

Hazard Class: CLASS 8 (CORROSIVE MATERIAL)

Hazard ID#: UN2693 PACKING GROUP III

DOT Label: Corrosive

Reportable Quantity: Sodium Bisulfite: 5000 pounds

Completed by and Phone Number: Donald Carr (219) 661-8230

SECTION II - HAZARDOUS COMPONENTS

Hazardous Ingredient Name	CAS Number	% By Weight	OSHA PEL	ACGIH TLV
SODIUM BISULFITE	7631-90-5	20-41%	5 MG/M ³ TWA	5 MG/M ³

SECTION III - PHYSICAL DATA

Boiling Point (Degrees F): DECOMPOSES

Freezing Point: CRYSTALLIZATION POINT: 39°F FOR

40% SOLUTION

Vapor Pressure (mm Hg): 32 MM HG (EST) @ 77 °F

Vapor Density (Air= 1): NOT AVAILABLE

Solubility In Water: SOLUBLE

Appearance and Odor: WATER WHITE TO LIGHT YELLOW, SULFUR DIOXIDE ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NOT AVAILABLE
HMIS and NFPA: HEALTH: 3 FIRE: 0 REACTIVITY: 1
LEL: NOT AVAILABLE
UEL: NOT AVAILABLE

Reactivity: 1

Extinguishing Media: USE ALCOHOL-TYPE FOAM, WATER FOG, OR CARBON DIOXIDE

Special Fire Fighting Instructions; BECAUSE SULFUR DIOXIDE GAS MAY BE PRESENT, WEAR A NIOSH

APPROVED SELF-CONTAINED BREATHING APPARATUS

Unusual Fire and Explosion Hazards: CAUTION! PRODUCT IS CORROSIVE. SULFUR DIOXIDE GAS WILL BE

RELEASED AT A RATE INCREASING WITH TEMPERATURE.

SECTION V - HEALTH HAZARD INFORMATION

<u>Threshold Limit Value:</u> SEE SECTION II. <u>Permissible Exposure Limit:</u> SEE SECTION II.

***Acute Effects ***

Inhalation: MISTS MAY CAUSE SEVERE IRRITATION OF THE UPPER RESPIRATORY TRACT

Skin: MAY CAUSE SEVER SKIN IRRITATION OR CORROSIVE BURNS

Eye: MAY CAUSE SEVER IRRITATION OR CORROSIVE BURNS. PRODUCT VAPOR IS IRRITATING TO EYES.

Ingestion: IRRITATING TO MOUTH, THROAT AND STOMACH.

*** First Aid ***

Inhalation: REMOVE TO A SOURCE OF FRESH AIR.

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Industrial Water Treatment
www.mid-westsolutions.com

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Skin: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSING.

Eye: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN IMMEDIATELY Ingestion: IF CONSCIOUS, INDUCE VOMITING AND GET MEDICAL ATTENTION. IF UNCONSCIOUS OR CONVULSING, DO NOT INDUCE VOMITING AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

*** Medical Conditions Generally Aggravated By Exposure ***

PERSONS SUFFERING FROM ASTHMA OR OTHER RESPIRATORY PROBLEMS SHOULD AVOID ANY CONTACT OR EXPOSURE TO SODIUM BISULFITE. SENSITIVE PERSONS MAY EXPERIENCE RESPIRATORY ALLERGIC REACTIONS.

SECTION VI - REACTIVITY DATA

Stability: UNDER NORMAL CONDITIONS, THE MATERIAL IS STABLE. WITH HEAT, SULFUR DIOXIDE IS RELEASED

Incompatibility (Materials to Avoid): CAN REACT VIGOROUSLY WITH STRONG OXIDIZERS. CONTACT WITH ACIDS RELEASES SULFUR DIOXIDE GAS.

Hazardous Decomposition Products: SULFUR DIOXIDE

Hazardous Polymerization: WILL NOT OCCUR

SECTION VII - SPILL OR LEAK PROCEDURES

Spill, Leak or Release: BLOCK ANY POTENTIAL ROUTES TO WATER SYSTEMS (E.G., SEWERS, STREAMS, LAKES, ETC.). RECOVER AS MUCH OF THE PURE PRODUCT AS POSSIBLE INTO POLY-DRUMS/CORROSION RESISTANT CONTAINERS. NEUTRALIZE SPILL RESIDUES WITH LIME, SODA ASH, OR SODIUM BICARBONATE - SULFUR DIOXIDE AND CARBON DIOXIDE MAY BE RELEASED DURING NEUTRALIZATION. APPLY DRY ABSORBENT MATERIAL AND SWEEP UP THOROUGHLY TO ABSORB ANY MATERIAL THAT CAN NOT READILY BE RECOVERED AS PURE PRODUCT. LATER, DETERMINE IF THIS RECOVERED PRODUCT CAN BE USED FOR ITS INTENDED PURPOSE. ADDRESS CLEAN-UP OF CONTAMINATED ENVIRONMENTS.

<u>Waste Disposal</u>: FOLLOW PERTINENT REGULATION FOR DISPOSAL. IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE, AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE. (40 CFR 261.20-24)

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: REQUIRED IF THE EXPOSURE LIMITS IN SECTION II ARE EXCEEDED.

<u>Ventilation:</u> LOCAL MECHANICAL VENTILATION IS RECOMMENDED.

Protective Clothing/Equipment: RUBBER GLOVES, IMPERMEABLE APRON AND SHOES ARE RECOMMENDED.

Eye Protection: ANSI APPROVED CHEMICAL WORKERS GOGGLES OR FULL FACE SHIELD.

Other Protective Equipment: EYE-WASH AND SAFETY SHOWER.

<u>Comments</u>: NEVER EAT, DRINK, OR SMOKE IN WORK AREAS. PRACTICE GOOD PERSONAL HYGIENE AFTER USING THIS MATERIAL.



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SECTION IX - SPECIAL PRECAUTIONS

Storage and Handling Conditions: AVOID STORAGE NEAR STRONG OXIDIZERS OR ACIDS. USE WITH ADEQUATE VENTILATION. AVOID SKIN CONTACT. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

SECTION X - STATE LISTS

<u>California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):</u> THIS PRODUCT DOES NOT CONTAIN ANY COMPONENTS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR REPRODUCTIVE TOXICITY ABOVE NO SIGNIFICANT RISK LEVELS.

ADDITIONAL PRODUCT INFORMATION

*** Carcinogens as Defined By ***

NTP : NONE IARC: NONE OSHA: NONE

*** Environmental Information ***

SARA Title III(Superfund Amendments and Reauthorization Act) 311/312 Category

IMMEDIATE (ACUTE) HEALTH HAZARD: YES DELAYED (CHRONIC) HEALTH HAZARD: NO

FIRE HAZARD: NO

SUDDEN RELEASE OF PRESSURE HAZARD: NO

REACTIVE HAZARD: YES

CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

THE REPORTABLE QUANTITY OF SODIUM BISULFITE IS 5000 POUNDS.

FDA (Food and Drug Administration) 21 CFR 173.310

THIS PRODUCT IS APPROVED FOR FOOD CONTACT USES WITH STEAM.

TSCA (Toxic Substances Control Act) Applicability

ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.

FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act)

THIS PRODUCT IS NOT A REGISTERED PESTICIDE.

Other Information

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our knowledge as of the date issued. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use are beyond our control, Mid-West solutions, Inc. make no warranty, express or implied, regarding the accuracy of such data or its suitability for any purchaser's use or for any consequence of its use. The data in this MSDS relates only to the specific material designated here in and does not relate to use in combination with any other material or in any process. Safe handling and use remains the responsibility of the purchaser. Mid-West solutions, Inc. assumes no responsibility for injury to the recipient or to third persons or for any damage to any property and the recipient assumes all such risks.

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