

171 River Road  
Middletown, CT 06457 U.S.A.  
Phone: (860) 347-2505  
Fax: (860) 347-9404

## Product Name Liquid Black Oxide

**Identification Number:** SBO001

**Supplier & Manufacturer:**

Du-Lite Corporation  
171 River Road  
Middletown, CT 06457

**Emergency Telephone: 800-424-9300 (24 hours)**

Preparer: Du-Lite Corp, Phone: (860) 347-2505 Prepare Date: **01/03/2020**

## Section 1 – Composition/Information on Ingredients

W/WT%

ITEM CHEMICAL NAME CAS NUMBER LESS THAN

01 Sodium Hydroxide 1310-73-2 45.0%

02 Sodium Nitrate 7631-99-4 10.0%

03 Sodium Nitrite 7632-00-0 5.0%

Exposure Limits

ACGIH OSHA COMPANY

ITEM TLV-TWA TLV-STEL PEL-TWA PEL-CEILING TLV-TWA SKIN

01 2 MG/M3 N.E. 2 MG/M3 N.E. N.E. NO

02 N.E. N.E. N.E. N.E. N.E. NO

03 N.E. N.E. N.E. N.E. N.E. NO

Where exposure limit values are entered, such values may be based on one or more elements if not specifically listed for the compound by OSHA or ACGIH.

(See Section 16 for abbreviation legend)

## Section 2 – Hazards Identification

\*\*\*Emergency Overview\*\*\*: See effects of overexposure & first aid measures.

Effects of Overexposure – Eye Contact: Will cause severe burns. Small quantities may result in permanent damage and or loss of vision

Effects of Overexposure – Skin Contact: Extremely corrosive. May cause burns and frequently deep ulcerations and scarring. May cause irritant dermatitis.

Effects of Overexposure – Inhalation: May cause damage to the upper respiratory tract and lung tissue depending on amount of exposure. May cause severe pneumonitis.

Effects of Overexposure – Ingestion: May cause very serious damage to the mucus membranes or other tissue which may be fatal.

Effects of Overexposure – Chronic Hazards: Discomfort and ulceration of skin, respiratory system and lungs.

Primary Route (s) of Entry: Skin Contact Inhalation Ingestion Eye Contact

Product Code: SBO001 Preparation Date: 10/18/2015

## Section 3 – First Aid Measures

First Aid – Eye Contact: Flushing with water of at least 20 minutes forcibly holding open eyelids. Seek immediate medical attention.

First Aid – Skin Contact: Flush with soap & water for at least 20 minutes. If irritation persists, seek immediate attention.

First Aid – Inhalation: Remove to fresh air. Seek immediate medical attention.

First Aid – Ingestion: Do not induce vomiting. Seek immediate medical attention. Drink large amounts of water followed by diluted vinegar, fruit juice or egg whites beaten with water.

## Section 4 – Fire Fighting Measures

Flash Point: N.A. Lower Explosive Limit: N.A.

Upper Explosive Limit: N.A.

Autoignition Temperature: N.D.

Extinguishing Media: CO2 Dry Chemical Foam Water Fog

Unusual Fire and Explosion Hazards: May generate flammable hydrogen gas when it contact with aluminum, tin and their alloys.

Special Firefighting Procedures: Wear self-contained breathing apparatus.

## **Section 5 – Accidental Release Measures**

Steps to be taken in case of material is released or spilled:

Small Spills: Contain spill with inert material. Place material in container for proper disposal.

Large Spills: Dike area with earth or clay. Remove as much material as possible with pump or vacuum. Never flush to sewer.

Notify proper authorities.

## **Section 6 – Handling and Storage**

Handling: Refer to section 8 for proper handling.

Storage: Store in tightly closed container. Store away from organic materials. Store in a cool, dry place. Store away from strong oxidizing agents.

## **Section 7 – Exposure Controls/Personal Protection**

Engineering Controls: Good industrial hygiene practices recommend that engineering controls (such as local and/or mechanical ventilation) be used to reduce environmental concentrations to the permissible exposure level. Respirators may be used when engineering and work practice controls are not technically feasible, when such controls are in the process of being installed, or when they fail and need to be supplemented.

Respiratory Protection: If the use of a respirator is necessary use only a MASHA/NIOSH approved air supplied respirator or and air-purifying respirator.

Skin Protection: Industrial grade rubber or plastic gloves should be worn.

Eye Protection: Chemical goggles and face shield should be worn.

Other Protective Equipment: Rubber apron and boots should be used where splashing may occur.

Hygienic Practices: Avoid contact with skin and avoid breathing mist. Do not eat, drink, or smoke in work are. Wash hands prior to eating, drinking, or using this product. Any protective clothing or shoes which become contaminated with this material should be removed immediately and thoroughly laundered before wearing again.

## **Section 8 – Physical and Chemical Properties**

Boiling Range: 212-287 F Vapor Density: Is heavier than air

Odor: Chemical Odor Threshold: N.A.

Appearance: Clear Light Brown Evaporation Rate: Is slower than Butyl Acetate

Solubility in H<sub>2</sub>O: Complete

Freeze Point: N.A. Specific Gravity: 1.5

Product Code: SBO001 Preparation Date: 10/18/2015

## **Section 9 – Physical and Chemical Properties**

Vapor Pressure: N.A. pH @ 5.0%: 12

Physical State: Liquid Viscosity: N.A.

Coefficient of Water/Oil Distribution: NA

(see Section 16 for abbreviation legend)

## **Section 10 – Stability and Reactivity**

Conditions to Avoid: Store away from heat, open flame & strong organic oxidizers. See below.

Incompatibility: Keep away from strong organic oxidizers. Organic materials and concentrated acids may cause violent reactions. May react with magnesium, aluminum, tin, chromium.

Hazardous Decomposition Products: Will not occur.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

## **Section 11 – Toxicological Properties**

No product or component toxicological information is available.

Carcinogenic Information: No information.

## **Section 12 – Ecological Information**

Ecological Information: No information.

## **Section 13 – Disposal Considerations**

Disposal Methods: Waste Disposal Method: Dispose of according to federal, state and local authorities.

## **Section 14 – Transportation Information**

DOT Proper Shipping Name: RQ Corrosive Liquid, Basic, Inorganic, N.O.S.

DOT Technical Name: Sodium Hydroxide, Sodium Nitrate

DOT Hazard Class: 8 Hazard Subclass: NA

DOT UN/NA Number: UN3266 Packing Group: II Resp. Guide Page: 154

## **Section 15 – Regulatory Information**

U.S. Federal Regulations: As Follows-

OSHA: Non-Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA – Sara Hazard Category:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986(SARA Title III) an is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard Chronic Health Hazard Reaction Hazard

SARA Section 313:

This product contains the following substances subject to the reporting and notification requirements of Section 313 of Title III if the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372; Hence any and all copies and/or

redistributions of the MSDS MUST include this information and notification to remain in compliance with this section:

-----Chemical Name----- CAS Number WT/WT % is less than

Sodium Nitrate 7631-99-4 10.0 %

Product Code: SBO001 Preparation Date: 10/18/2018

## **Section 16 – Regulatory Information**

Sodium Nitrite 7632-00-0 5.0 %

International Regulations: As Follows-

Canadian WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

Canadian WHMIS: No information available.

## **Section 17– Other Information**

HMIS Ratings – Health: 2 Flammability: 0 Reactivity: 1

Previous MSDS Revision Date: 11/29/07

Legend: N.A. – Not Applicable, N.E – Not Established

N.D. – Not Determined

Carcinogenicity Category Legend:

National Toxicology Program (NTP):

K = Known To Be A Human Carcinogen.

R = Reasonably Anticipated To Be A Human Carcinogen.

International Agency for Research on Cancer:

1 = Carcinogenic To Humans.

2A = Probably Carcinogenic To Humans.

2B = Possibly Carcinogen To Humans

Occupational Safety and Health Administration:

X = Carcinogen Defined With No Further Categorization.

## **Disclaimer**

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