

## SAFETY DATA SHEET

VIRA BASPAR BARTAR Company

Address: 2nd floor, No.24, 5th Razmandegan Alley, Razmandegan St., Shahrood, Iran.

Telephone: (+98)23-32228684

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# VIRA AB-3020



*Oxygen Scavenger*

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### 1- IDENTIFICATION

|                        |                                                                                                                                                                            |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Trade name             | VIRA AB-3020                                                                                                                                                               |
| Application            | Oxygen Scavenger                                                                                                                                                           |
| Type of usage          | Water flooding oxygen scavenger                                                                                                                                            |
| COMPANY IDENTIFICATION | VIRA BASPAR BARTAR Company<br>Address: 2 <sup>nd</sup> floor, No.24, 5 <sup>th</sup> Razmandegan Alley,<br>Razmandegan St., Shahrood, Iran.<br>Telephone: (+98)23-32228684 |

### COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Composition:

Ammonium Bisulfite ≥ 65%

### HAZARDS IDENTIFICATION

#### WARNING

Contains Sulfite. Causes asthmatic signs and symptoms in hyper-reactive individuals. Irritating to eyes, respiratory system and skin. Avoid breathing vapor. Use with adequate ventilation.



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Do not take internally. Keep container tightly closed. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Protect product from freezing. Wear suitable protective clothing, gloves and eye/face protection. May evolve oxides of nitrogen (NO<sub>x</sub>) and sulfur (SO<sub>x</sub>) under fire conditions.

### **PRIMARY ROUTES OF EXPOSURE:**

Eye, Skin, Inhalation

### **HUMAN HEALTH HAZARDS – ACUTE:**

#### **EYE CONTACT:**

Can cause mild irritation.

#### **SKIN CONTACT:**

Can cause mild irritation.

#### **INGESTION:**

Not a likely route of exposure. May cause asthmatic-like attack.

#### **INHALATION:**

Irritant to respiratory system. Causes asthmatic signs and symptoms in hyper-reactive individuals.

### **SYMPTOMS OF EXPOSURE:**

#### **Acute:**

A review of available data does not identify any symptoms from exposure not previously mentioned.

#### **Chronic:**

A review of available data does not identify any symptoms from exposure not previously mentioned.

### **AGGRAVATION OF EXISTING CONDITIONS:**

A review of available data does not identify any worsening of existing conditions.

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### **HUMAN HEALTH HAZARDS – CHRONIC:**

Ingestion of sulfite can cause a severe allergic reaction in asthmatics and some sulfite sensitive individuals. The resulting symptoms can include difficulty in breathing, flushed skin and a rash. Chronic exposure to sulfites may cause symptoms of upper respiratory disease and affect sense of taste and smell.

### **FIRST AID MEASURES**

#### **EYE CONTACT:**

Immediately flush eye with water for at least 15 minutes while holding eyelids open. If irritation persists, repeat flushing. Get immediate medical attention.

#### **SKIN CONTACT:**

Immediately flush with plenty of water for at least 15 minutes. If symptoms persist, call a physician.

#### **INGESTION:**

Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. Get medical attention.

#### **INHALATION:**

Remove to fresh air, treat symptomatically. If breathing is difficult, administer oxygen. Get medical attention.

#### **NOTE TO PHYSICIAN:**

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

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### **FIRE FIGHTING MEASURES**

FLAMMABILITY OF THE PRODUCT: Nonflammable.

FIRE & EXPLOSIVE HAZARDS: When heated, sulfur dioxide vapors will evolve. further heating may cause rapid thermal decomposition resulting in rapid release of heat, sulfur dioxide and associated pressure. keep containers/storage vessels in fire area cooled with water spray.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING: Wear self-contained breathing apparatus, pressure demand and full protective gear.

### **ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS:

Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by trained personnel only. Ensure adequate ventilation. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment. Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP:

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area.

LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Wash site of spillage thoroughly with water. Contact an approved waste hauler for disposal of contaminated recovered material.

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### ENVIRONMENTAL PRECAUTIONS:

Do not contaminate surface water.

## STORAGE AND HANDLING

### STORAGE:

Store the containers tightly closed. Store in suitable labelled containers. Amine and sulphite products should not be stored within close proximity or resulting vapors may form visible airborne particles. Avoid direct sunlight. At temperatures greater than 50°C may decompose exothermically with release of Sulphur dioxide.

### HANDLING

Avoid eye and skin contact. Do not take internally. Do not get in eyes, on skin, on clothing. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labelled. Keep the containers closed when not in use. Use with adequate ventilation.

## PHYSICAL AND CHEMICAL PROPERTIES

|                  |                                          |
|------------------|------------------------------------------|
| Appearance       | pale yellow-green slightly turbid liquid |
| Solubility       | water soluble                            |
| Specific gravity | 1.2 to 1.4 gr/cm <sup>3</sup>            |
| pH               | ≥ 4                                      |
| Odor             | Odorless                                 |

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### STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

CONDITIONS TO AVOID: Freezing temperatures.

MATERIALS TO AVOID: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors. Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors. SO<sub>2</sub> may react with vapors from neutralizing amines and may produce a visible cloud of amine salt particles.

HAZARDOUS DECOMPOSITION PRODUCTS: Under fire conditions: Oxides of sulfur

### TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION:

This product is not expected to be a sensitizer

CARCINOGENICITY:

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

HUMAN HAZARD CHARACTERIZATION:

Based on our hazard characterization, the potential human hazard is: High

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### **DISPOSAL CONSIDERATIONS**

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. For disposal, contact a properly licensed waste treatment, storage, disposal or recycling facility.

### **TRANSPORT INFORMATION**

Toxic liquid Carefully to Carry.

### **OTHER INFORMATION**

The environmental risk is: Moderate

Any use inconsistent with our recommendations may affect the risk characterization. Our sales representative will assist you to determine if your product application is consistent with our recommendations. Together we can implement an appropriate risk management process.

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Version Number: 01