

## 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 AS-9031



## SCALE INHIBITOR

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### 1- IDENTIFICATION

Trade name	VIRA AS-9031
Application	Scale inhibitor for sea water system
Type of usage	Water injection scale inhibitor
COMPANY IDENTIFICATION	VIRA BASPAR BARTAR Company Address: 2 <sup>nd</sup> floor, No.24, 5 <sup>th</sup> Razmandegan Alley, Razmandegan St., Shahrood, Iran. Telephone: (+98)23-32228684

### COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Composition:

Phosphonic acid salt	15-30 %
Polymer polycarboxylate	5-10 %
1-hydroxyethylidene-1,1-diphosphonic acid	5-15 %
Wetting Agent	0.5-2 %



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### **HAZARDS IDENTIFICATION**

Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

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

Dermal contact. Eye contact. Inhalation

#### **HUMAN HEALTH HAZARDS – ACUTE:**

##### **EYE CONTACT:**

Causes serious eye damage. Corrosive to eyes. Causes burns.

##### **SKIN CONTACT:**

Causes skin irritation. Corrosive to the skin. Causes burns.

##### **INGESTION:**

Toxic if swallowed. May cause burns to mouth, throat and stomach.

##### **INHALATION:**

Corrosive to the respiratory system.

#### **SYMPTOMS OF EXPOSURE:**

##### **Acute:**

Corrosive to the respiratory system skin and eyes. Toxic if swallowed. May cause burns to mouth, throat and stomach. Causes burns.

##### **Chronic:**

Contains material that may cause target organ damage, based on animal data.

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### AGGRAVATION OF EXISTING CONDITIONS:

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

### HUMAN HEALTH HAZARDS – CHRONIC:

No adverse effects expected other than those mentioned above.

## **FIRST AID MEASURES**

### EYE CONTACT:

Flush skin with running water for at least fifteen minutes. Remove any contact lenses. Get medical aid/ attention immediately.

### SKIN CONTACT:

Remove contaminated clothing. Wash skin with plenty of running water and soap. Get medical attention/ aid if irritation persists. Contaminated clothing should be washed before use.

### INGESTION:

If the product is swallowed, first rinse mouth. Give large amount of water to drink. Call doctor/ physician/poison center immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person. If a person vomits, place him/her in recovery position. Aspiration may cause pulmonary edema and pneumonitis.

### INHALATION:

If safe to do so, remove individual from further exposure. Keep warm and at rest. If breathing has ceased, give artificial respiration. Get medical attention/consult a physician.

### NOTE TO PHYSICIAN:

Treat symptomatically.

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### **FIRE FIGHTING MEASURES**

#### **EXTINGUISHING MEDIA:**

Water spray, alcohol resistant foam, dry chemical powder or carbon dioxide. Appropriate for the surrounding area. Do not use a high-power water jet.

#### **FIRE AND EXPLOSION HAZARD:**

Fire may cause evolution of corrosive vapors of phosphorous oxides as well as Phosphine, nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide. Hazardous decomposition and combustion products such as phosphorous and carbon oxides can be formed if product is burning. Cool exposed containers with water spray to prevent overheating.

#### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:**

Respiratory and eye protection are required for firefighting personnel. Full protective equipment and self-contained breathing apparatus (SCBA) should be used for all fires. Evacuate area and fight fire from safe distance or a protected location. Move fire-exposed containers, if allowable without sacrificing the safety of the firefighters. Firefighters should control run-off water to prevent environmental contamination. —Do not release to sewers or waterways.

### **ACCIDENTAL RELEASE MEASURES**

#### **PERSONAL PRECAUTIONS:**

**SMALL SPILLS:** Safety glasses or chemical splash goggles, chemically resistant gloves (rubber), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin. Wear respiratory protection to avoid inhaling vapors. **LARGE SPILLS:**

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Triple gloves (rubber and nitrile over latex), chemical resistant suit, boots, hard hat, full face mask/an air purifying respirator. Self-contained breathing apparatus must be worn in situations where fumigant gas generation and low oxygen levels are a consequence of contamination from the leak.

### **METHODS FOR CLEANING UP:**

**SMALL SPILLS:** In the event of a small spill, the spill should be contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Do not use water for cleanup. Do not let chemical/waste enter the environment. **LARGE SPILLS:** In the event of a large spill, contain the spill immediately and dispose the spill/waste according to state, federal, and local hazardous waste regulation. Do not let chemical/waste enter the environment.

### **ENVIRONMENTAL PRECAUTIONS:**

**Water spill:** use appropriate containment to avoid run off or release to sewer or other waterways. **Land spill:** use appropriate containment to avoid run off or release to ground. **General precaution:** remove containers of strong acid, alkali and incompatible materials from the release area.

## **STORAGE AND HANDLING**

### **STORAGE:**

Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep containers isolated from incompatible materials/conditions such as heat and ignition sources. Protect against physical damage and check regularly for leaks. Do not store with oxidizing agents, alkalis, or caustic substances.

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### HANDLING

Use appropriate personal protective equipment. Handle in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas. Qualified materials: glass, PVC, polypropylene, polyethylene.

### PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless to Pale Yellow liquid
Solubility	Water soluble
Specific gravity	1.15 to 1.40 gr/cm <sup>3</sup>
pH	≤ 5
Odor	Perceptible

### STABILITY AND REACTIVITY

**STABILITY:** The product is stable under recommended storage and handling conditions.

**CONDITIONS TO AVOID:** Avoid exposure to extreme temperatures, incompatible materials, & combustible materials.

**MATERIALS TO AVOID:** Corrodes base metals. Strong oxidizing agents, alkalis, and caustic substances. Reacts with steel and aluminum.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

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Gives off hydrogen by reaction with metals. Oxides of carbon and oxides of phosphorous formed under decomposition/fire.

### **TOXICOLOGICAL INFORMATION**

Irritating to eyes and skin. May cause mild irritation to mucous membranes.

#### **SENSITIZATION:**

Repeated or prolonged contact may cause eyes and skin sensitization.

#### **HUMAN HAZARD CHARACTERIZATION:**

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

### **DISPOSAL CONSIDERATIONS**

Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations. For Large Spills: Contain material and call local authorities for emergency assistance. Product Disposal: Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, state and federal laws, regulations and product characteristics at time of disposal. Empty Container: Contaminated container should be labeled and disposed in accordance to local, state and federal laws and regulations. General Comments: Refer to section 6, accidental release measures for additional information.

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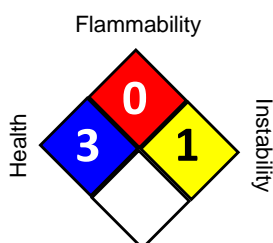
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### TRANSPORT INFORMATION

Toxic and Corrosive Acidic liquid Carefully to Carry.

### OTHER INFORMATION

#### NFPA



0 = not significant, 1 =Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

Revision Date: 01/02/2017

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