

SAFETY DATA SHEET

VIRA BASPAR BARTAR Company

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

Telephone: (+98)23-32228684

VIRA HY-INHI 1318



Low Dose Hydrate Inhibitor

1- IDENTIFICATION

Trade name	VIRA HY-INHI 1318
Application	Gas Hydrate Inhibitor
Type of usage	Low Dose Hydrate Inhibitor
COMPANY IDENTIFICATION	VIRA BASPAR BARTAR Company Address: 2 nd floor, No.24, 5 th Razmandegan Alley, Razmandegan St., Shahrood, Iran. Telephone: (+98)23-32228684

COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Composition:

Polymer	15-35
Polymer Enhancer	20-30
Aliphatic Hydrocarbon	5-15
Methanol	10-20



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HAZARDS IDENTIFICATION

Corrosive. May cause tissue damage. Flammable. Toxic by inhalation, in contact with skin and if swallowed. May cause sensitization by skin contact. Contains methanol. Methanol may cause central nervous system effects or permanent vision damage if inhaled, swallowed or absorbed through the skin in large amounts. Do not get in eyes, on skin, on clothing. Do not take internally. Keep away from heat. Keep away from sources of ignition - No smoking. Use with adequate ventilation. Keep container tightly closed and in a well-ventilated place. 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. Wear a face shield. Wear chemical resistant apron, chemical splash goggles, impervious gloves and boots. Flammable Liquid; may release vapors that form flammable mixtures at or above the flash point. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition. Vapors can travel to a source of ignition and flash back. May evolve oxides of carbon (CO_x) under fire conditions. May evolve oxides of nitrogen (NO_x) and sulfur (SO_x) under fire conditions.

PRIMARY ROUTES OF EXPOSURE:

Eye, Skin, Inhalation

HUMAN HEALTH HAZARDS – ACUTE:

EYE CONTACT:

Corrosive. Will cause eye burns and permanent tissue damage.

SKIN CONTACT:

May cause severe irritation or tissue damage depending on the length of exposure and the type of first aid administered. Toxic in contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Methanol may be absorbed through

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the skin and cause central nervous system effects which may result in permanent visual changes including blindness.

INGESTION:

Not a likely route of exposure. Corrosive; causes chemical burns to the mouth, throat and stomach. Toxic if swallowed. The main hazard of methyl alcohol arises from its misuse as a drinking substitute for ethyl alcohol. As little as 15 ml of 40% methyl alcohol may cause death. Sublethal doses may cause central nervous system effects and may result in permanent visual changes including blindness.

INHALATION:

Not a likely route of exposure. Irritating, in high concentrations, to the eyes, nose, throat and lungs. Toxic by inhalation.

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.

HUMAN HEALTH HAZARDS – CHRONIC:

No adverse effects expected other than those mentioned above.

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FIRST AID MEASURES

EYE CONTACT:

PROMPT ACTION IS ESSENTIAL IN CASE OF CONTACT. Immediately flush eye with water for at least 15 minutes while holding eyelids open. Get immediate medical attention.

SKIN CONTACT:

Immediately flush with plenty of water for at least 15 minutes. For a large splash, flood body under a shower. Remove contaminated clothing. Wash off affected area immediately with plenty of water. Get immediate medical attention. Contaminated clothing, shoes, and leather goods must be discarded or cleaned before re-use.

INGESTION:

DO NOT INDUCE VOMITING. If conscious, washout mouth and give water to drink. Get immediate medical attention.

INHALATION:

Remove to fresh air, treat symptomatically. Get medical attention.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

Alcohol foam, Carbon dioxide, Dry powder, Other extinguishing agent suitable for Class B fires, for large fires, use water spray or fog, thoroughly drenching the burning material. Water mist may be used to cool closed containers.

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FIRE AND EXPLOSION HAZARD:

Flammable Liquid; may release vapors that form flammable mixtures at or above the flash point. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition. Vapors can travel to a source of ignition and flash back. May evolve oxides of carbon (CO_x) under fire conditions. May evolve oxides of nitrogen (NO_x) and sulfur (SO_x) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

In case of fire, wear a full face positive-pressure self-contained breathing apparatus and protective suit.

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. Ventilate spill area if possible. Do not touch spilled material. Eliminate ignition sources. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment (Exposure Controls/Personal Protection).

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:

Prevent material from entering sea, sewers or waterways.

STORAGE AND HANDLING

STORAGE:

Store VIRA HY-INHI 1318 in a cool dry ventilation area away from direct sunlight and heat to avoid deterioration. Store away from heat and sources of ignition. Connections must be grounded to avoid electrical charges. Avoid temperatures above 80°C. The active ingredient decomposes at elevated temperatures with generation of gas which can cause pressure buildup in closed systems. Store separately from oxidizers. Store in suitable labeled containers. Incorrect storage may lead to the deterioration of the material to an impure, unsafe or explosive condition.

HANDLING

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid release of vapors or mists into workplace air. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid
Appearance	Milky pale yellow Color
Solubility in water	Slightly Dispersible
Solubility in Condensate	Soluble
Specific gravity	0.80 to 1.10 gr/cm ³
pH (2 % water)	5.0-8.5



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STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid extremes of temperature. Heat and sources of ignition.

MATERIALS TO AVOID: Contact with strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS:

Under fire conditions: Organic product, Oxides of carbon and Oxides of nitrogen and sulfur.

TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION:

Repeated or prolonged contact may cause skin sensitization.

HUMAN HAZARD CHARACTERIZATION:

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

DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

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Disposal methods:

The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations:

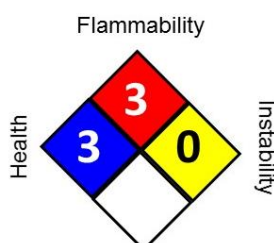
Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

TRANSPORT INFORMATION

Toxic liquid Carefully to Carry.

OTHER INFORMATION

NFPA



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

Revision Date: 01/04/2018

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