

**I. PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** StAR HIB™

**Product Use:** Organic Shale Inhibitor

**CAS No.** Blend

**Supplier**

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**II. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW** NOT CLASSIFIED AS DANGEROUS FOR SUPPLY/USE.

**POTENTIAL HEALTH EFFECTS**

**Eye Contact** May cause eye irritation.

**Skin Contact** May cause irritation.

**Ingestion** Oral exposure is not expected to occur. Low oral toxicity, but ingestion may cause irritation of the gastrointestinal tract.

**Inhalation** Avoid inhalation of vapours. May cause irritation to the respiratory system.

**Long Term Exposure** None known.

**III. COMPOSITION/INFORMATION ON INGREDIENTS**

A proprietary chemical blend.

CHEMICALS	CAS No.	%W/W
Contains no hazardous ingredients		

Occupational Exposure Limits - See Section: VIII (8)

**IV. FIRST AID MEASURES**

**Inhalation** Move person to fresh air. If symptoms develop, obtain medical attention.

**Skin Contact** Remove contaminated clothing immediately and wash affected skin with plenty of water or soap and water. If symptoms persist, obtain medical attention.

**Eye Contact** If substance has got into the eyes, immediately wash out with plenty of water

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Ingestion for at least 15 minutes. If symptoms occur obtain medical attention.  
 Rinse mouth. If symptoms develop, obtain medical attention.

**V. FIRE-FIGHTING MEASURES**

**Flammable/Explosive Properties** Not classified as flammable. As appropriate for surrounding fire.  
**Extinguishing media** Water spray, foam, dry powder or CO2.  
**Unsuitable Extinguishing Media** None known.  
**Fire Fighting Protective Equipment** Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

**VI. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** Wear suitable protective clothing. See Section:VIII  
**Environmental Precautions** Avoid run off to waterways and sewers.  
**Methods for Cleaning up** Stop leak if safe to do so. Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery.  
**Other** Disposal should be in accordance with local, state or national legislation.

**VII. HANDLING AND STORAGE**

**Handling** Use only with adequate ventilation to keep exposures (airborne levels of dust, fume, vapour etc) below recommended exposure limits.  
**Storage** Keep containers in a clean, cool and dry area away from heat sources.  
**Storage Temperature:** Ambient temperatures.

**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**OCCUPATIONAL EXPOSURE LIMITS**

HAZARDOUS INGREDIENT(S)	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	OSHA PEL 10 mg/m3
No Occupational Exposure Limit assigned.					

**EXPOSURE CONTROLS**

**Engineering Controls** Provide sufficient ventilation.  
**Eye Protection** Wear protective eyewear (goggles, face shield, or safety glasses).  
**Gloves** Protective gloves.  
**Respirators** Normally no personal respiratory protection is necessary.  
**Other** Wear protective equipment to comply with good occupational hygiene practice.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

**Form** Liquid  
**Color** Clear  
**Odor** Slight Amine-like.  
**pH (Value) diluted sample** 5-8 (75%)  
**Flash Point (°C) [Open cup]/ [Closed cup]** Not determined

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Specific Gravity 1.1  
 Bulk Density (g/ml) 9.25 lb/gal  
 Solubility (Water) Partially soluble.

**X. STABILITY AND REACTIVITY**

Chemical Stability Stable under normal conditions.  
 Hazardous Reactions None  
 Incompatible materials: Keep away from heat and sources of ignition. Oxidizing agents.  
 Hazardous Decomposition Product(s) Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide

**XI. TOXICOLOGICAL INFORMATION**

Inhalation May cause irritation to the respiratory system.  
 Skin Contact May cause irritation  
 Eye Contact May cause eye irritation.  
 Ingestion Ingestion may cause irritation of the gastrointestinal tract.  
 Long Term Exposure No known long term hazards are associated with the use of this material.

**XII. ECOLOGICAL INFORMATION**

Environmental Fate and Distribution No environmental hazards have been reported or known. Avoid release to the environment.  
 Persistence and Degradation The product is readily biodegradable.  
 Toxicity This product has been evaluated by CEFAS (The Center for Environment, Fisheries & Aquaculture Science) and has been accepted onto the list of Approved Products suitable for use by the North Sea Oil and Gas Industry.

**XIII. DISPOSAL CONSIDERATIONS**

Regulatory information Dispose of wastes in an approved waste disposal facility.  
 Recommended: Disposal should be in accordance with local, state or national legislation.

**XIV. TRANSPORT INFORMATION**

Harmonized Tariff Number 2923.90.00.00

**US FEDERAL TRANSPORT REGULATIONS**

D.O.T. Classification Not classified as dangerous for transport.  
 Proper Shipping Name Not classified as dangerous for transport.

**TGD - CANADIAN TRANSPORT REGULATIONS**

Proper Shipping Name Not classified as dangerous for transport.

**INTERNATIONAL TRANSPORT REGULATIONS**

Proper Shipping Name Not classified as dangerous for transport.

SEA Not classified as dangerous for transport.

IMDG Class Not classified as dangerous for transport.

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AIR

Not classified as dangerous for transport.

**XV REGULATIONS**

**US Federal Regulations**

SARA 302 - Extremely Hazardous Substances      None  
 SARA 311/312 - Hazard Categories              Acute – Yes, Chronic – No , Flammability – No, Reactivity - No  
 SARA 313 - Toxic Chemicals                      None

**US State Regulations**

Proposition 65 (California)                      Not listed

**Canada – WHMIS Classification D2A**

TSCA (Toxic Substance Control Act)              Listed

**XVI. OTHER INFORMATION**

NFPA	NFPA Rating	HMIS (Hazardous Material Information System)	
Health	1	Health	1
Fire	0	Flammability	0
Instability	0	Reactivity	0
		Personal Protection	E

**Packaging:** 55 gallon drum (204 liter). 4 per pallet, approximate weight 1940 lbs. (881.8 kg). Pallets weight approximately 50 lbs. (22.7 kg).

**GLOSSARY**

CERCLA              Comprehensive Environmental Response Compensation and Liability Act  
 COD                  Chemical Oxygen Demand (COD)  
 LC50                  Lethal Concentration  
 NFPA                  National Fire Protection Association  
 OSHA                  Occupational Safety and Health Administration  
 R                        Respirable Dust  
 SARA                  Superfund Amendments and Reauthorization Act  
 TLV                    Threshold Limit Value (ACGIH)  
 TWA                    Time Weighted Average

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