

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product Name:** StAR HIB™

**Address/Phone No.** Impact Fluid Solutions (UK) Ltd. Impact Fluid Solutions, LLC  
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 United Kingdom TR5 ORD USA

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**Additional Information:** 44-1872-553655 1-713-964-7736

**Email:** info@impactfluids.net

**Use of Substance / Preparation:** Organic Shale Inhibitor

**2. HAZARDS IDENTIFICATION**

**EC Classification:** Not classified as dangerous for supply/use.

**Hazard Overview:** Contains no hazardous ingredients

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Product Description:** Proprietary chemical blend.

HAZARDOUS INGREDIENT(S)	%W/W	CAS No.	EC No.	EC Classification
Contains no hazardous ingredients				

**4. FIRST AID MEASURES**

**Inhalation:** Move person to fresh air. If symptoms persist, 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 for at least 15 minutes. If symptoms persist, obtain medical attention.

**Ingestion** Rinse mouth. If symptoms develop, obtain medical attention.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media** Not classified as flammable. As appropriate for surrounding fire.

**Fire Fighting Protective Equipment** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

**Unsuitable Extinguishing Media** None known.

**6. ACCIDENTAL RELEASE MEASURES**




Ensure adequate ventilation. Eliminate sources of ignition. Do not allow to enter drains, sewers or watercourses.

<b>Personal Precautions</b>	Wear suitable protective clothing. (See Section: 8)
<b>Environmental Exposure Controls</b>	Do not allow to enter drains, sewers or watercourses.
<b>Other</b>	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. Disposal should be in accordance with local, state or national legislation.

**7. HANDLING AND STORAGE**

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

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

	<b>Respirators</b>	Normally no personal respiratory protection is necessary.
	<b>Eye Protection</b>	Wear protective eyewear (goggles, face shield, or safety glasses).
	<b>Gloves</b>	Protective gloves.
	<b>Other</b>	Wear protective equipment to comply with good occupational hygiene practice.

**OCCUPATIONAL EXPOSURE LIMITS**

SUBSTANCE.	CAS No.	ACGIH TLV-TWA	STEL (mg/m³)	Note:
No Occupational Exposure Limit assigned.				

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	Liquid
<b>Colour</b>	Clear
<b>Odour</b>	Slight Amine-like.
<b>pH (Value)</b>	5-8 (75%)
<b>Boiling Point (°C)</b>	Not applicable
<b>Flash Point (°C)</b>	Not determined
<b>Specific Gravity</b>	1.1
<b>Bulk Density</b>	9.25 lb/gal
<b>Vapour Pressure (Pascal)</b>	Not applicable
<b>Solubility (Water)</b>	Miscible
<b>Vapour Density (Air=1)</b>	Not applicable
<b>Relative Evaporation Rate (Ether = 1)</b>	Not applicable

**10. STABILITY AND REACTIVITY**

**Hazardous Reactions** Stable under normal conditions.  
**Hazardous Decomposition Product(s)** Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide  
**Incompatible materials:** Oxidizing agents.

**11. 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.

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution** No environmental hazards have been reported or known. Avoid release to the environment.  
**Persistence and Degradation** This product is readily biodegradable in water.  
**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.

**13. DISPOSAL CONSIDERATIONS**

**Regulatory information** Recover or recycle if possible.  
**Recommended:** Disposal should be in accordance with local, state or national legislation.

**14. TRANSPORT INFORMATION**

**HARMONIZED TARIFF CODE** 2923.90.00.00  
**INTERNATIONAL TRANSPORT REGULATIONS**  
**Proper Shipping Name** Not classified as dangerous for transport.  
**SEA**  
**IMDG Class** Not classified as dangerous for transport.  
**AIR**  
**ICAO/IATA Class** Not classified as dangerous for transport.  
**EUROPEAN REGULATIONS: ROAD/RAIL**  
**ADR/RID Class** Not classified as dangerous for transport.

**15. REGULATORY INFORMATION**

**EC Classification** Not classified as hazardous for supply/use according to the Chemicals (Hazard Information and Packaging for Supply) Regulations 2009.  
**Hazard Symbol** Not classified

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**Risk Phrases** None

**INTERNATIONAL INVENTORIES**

Australia (AICS)	All components listed or polymer exempt.
China (IECSC)	All components listed or polymer exempt.
EINECS (Europe)	All components listed or polymer exempt.
Japan (ENCS)	All components listed or polymer exempt.
Korea (ECL)	All components listed or polymer exempt.
New Zealand	All components listed or polymer exempt.
Philippines (PICCS)	All components listed or polymer exempt.

**16. OTHER INFORMATION**

HMIS (Hazardous Material Information System)	
Health	1
Flammability	0
Reactivity	0
Personal Protection	E

This Safety Data Sheet was prepared in accordance with Directive 2001/58/EC.

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

**GLOSSARY**

ACGIH	American Conference of Governmental Industrial Hygienists
BOD	Biological Oxygen Demand (BOD 28 DAY/COD):
CAS No.	Chemical Abstract Services
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
COD	Chemical Oxygen Demand (COD)
HMIS	Hazardous Material Information System
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration
NTP	National Toxicology Program
NIOSH	National Institute for Occupational Safety & Health
PEL	Permissible Exposure Limit
R	Respirable Dust.
TLV:	Threshold Limit Value (ACGIH)
TSCA	Toxic Substance Control Act
TWA	Time Weighted Average

Disclaimers: Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Impact Fluid Solutions gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Impact Fluid Solutions accepts no liability for loss or damage resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

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