

**SOLBREAK HFP™****DESCRIPTION**

SOLBREAK HFP is an innovative, powerful solvent, emulsifying product, engineered for use in general cleaning, degreasing and light carbonaceous deposits removal in engine rooms, bilges, cargo tanks and other installations. Furthermore, it may be used as a general degreaser in special situations where optimum results are sought.

SOLBREAK HFP contains biodegradable surfactants, advanced wetting agents and low toxicity solvents. Its unique characteristic allows the quick break down of the after clean emulsions into two phases, a water phase and an organic (oil) phase. This provides us with the ability to dispose of the waste solution according to MARPOL regulations. It contains substances not toxic for the environment.

ADVANTAGES & CHARACTERISTICS

- ◆ A concentrated degreasing cleaning solution ideal for use in cleaning cargo tanks, deep tanks, bilges, engine rooms, decks etc.
 - ◆ Acts quickly and thoroughly - readily disperses in water.
 - ◆ Separates the waste emulsions and breaks down the water from the oil into two phases. That way, it provides the advantage to discharge the waste on land/on shore stop stations around the world.
 - ◆ Contains biodegradable surfactants, strong emulsifying agents and low toxicity solvents.
 - ◆ Non-corrosive, non-toxic, non-flammable and non-conductive.
 - ◆ Alternatively, sometimes used as a general degreaser in difficult cleaning situations.
 - ◆ Can be safely applied to all kinds and types of metal surfaces (painted or not).
 - ◆ Free of chlorinated solvents.
 - ◆ No known effect on rubber & plastic compounds.
 - ◆ May be combined with a specific range of products.
 - ◆ Cost effective, easy to apply and use.
- **SOLBREAK HFP** is not harmful to the marine environment as per MARPOL MEPC 63 Annex V Amendment [MEPC. 71/17/Add.1 Annex 21, Resolution MEPC 295 (71)].

PHYSICAL PROPERTIES

SOLBREAK HFP is a blend of superior low toxicity solvents, non-ionic and anionic biodegradable surfactants and advanced wetting agents.

Appearance/Color	: Clear liquid / Colorless
Specific gravity	: 0.80 - 0.90 gr/cm ³ at 20°C
Flash Point	: >61°C
Odor	: Light Aromatic

PACKAGING

Order Number	: 832548 (25 ltrs)
	832140 (210 ltrs)
Container	: Steel drum

APPLICATION AND USE**A. Dosing Procedure**

The quantity of **SOLBREAK HFP** to be used is proportional to the degree of cleaning required, the available downtime and the level of residual contamination. As such, the appropriate quantity to be used should be based on the user's judgement. However, for light contamination, a 50% dilution with water is possible. For heavy contamination, it is suggested to use **SOLBREAK HFP** undiluted.

Note that in the last case, where water is absent and immersion/soaking method is being used, the remaining solution can still be used for further cleaning. This can be for the same immersion/soaking method or for another type of product application method i.e. for brushing

B. Cleaning Procedure

Once the quantity of **SOLBREAK HFP** is determined, apply using any of the methods of brushing and/or soaking/immersion.

Brushing is used in situations where small areas have heavy deposition and on highly contaminated parts or engine components. Brushing is also good for the awkward areas.

Soaking/Immersion is used in situations where we deal with dismantled parts, articles and engine components. Here, brushing may be applied in coordination with immersion to remove heavy accumulation.

After the application, no matter what method has been used, you must rinse off with sea or fresh water (preferably warm and under high pressure).



! SAFETY AND HANDLING

HANDLING	Handle with care. Store in a dry, cool and well ventilated environment.
SAFETY	IMMEDIATE ACTIONS
Eye Contact	Avoid Eye contact. Otherwise, flush with plenty of water for a few minutes. Seek medical attention.
Skin Contact	Avoid Skin contact. Otherwise, wash contaminated area thoroughly with water. Seek medical attention.
Inhalation	Do not breathe gas/vapors. In case of insufficient ventilation, wear suitable respiratory equipment. Otherwise, seek fresh air source at once and ask for medical attention immediately.
If Swallowed	Avoid ingestion. If swallowed, do not induce vomiting; seek medical advice immediately and show the label of the product.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Wear suitable protective clothing, gloves and eye/face protection before using the product.

 **Read the Material Safety Data Sheet before using this product.**

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

MARICHEM MARIGASES Worldwide Services or any subsidiary or associated companies warranties of merchantability and competence, if any, along with any expressed warranties concerning this merchandise, shall not be actionable or pertinent or effective if the good is used contrarily or differently to the directions herein and in no other way due to impending hazards from inappropriate use of the good explained herein. Merchandise might vary insubstantially depending on country of origin. The information provided concerning merchandise is exclusively presented to the customer.