

1 PRODUCTNAME/SUPPLIER

Productname **HC**
HC-S

Supplier **Bioversal International Gesellschaft m.b.H.**

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2 INFORMATION ON INGREDIENTS

Aqueous combination of detergents, polyvalent compounds and hetero-organic substances.

3 PRODUCT DESCRIPTION/APPLICATION

Environmentally safe, highly biodegradable liquid concentrate for cleaning and elimination of oil pollution / spills on land, sea, large lakes, rivers, shores and beaches. (use only with permission of the authorities).

HC(S) minimizes fire- and explosion hazard by stable encapsulation of oil-parts.
HC(S) is dermatologically tested as harmless.

4 PRODUCT : MINERAL OIL

HC 1 : 3 upto 1 : 10

HC-S 1 : 1 upto 1 : 4

Depending on oil type and surrounding temperature.

5 DILUTION RATE

Refined oil

Crude oil

HC 1 : 200 - 1 : 300

1 : 50 - 1 : 100

HC-S 1 : 80 - 1 : 120

1 : 20 - 1 : 40

Can be diluted with either fresh- or seawater.

6 PHYSICAL PROPERTIES

Form Liquid.

Color Colorless.

Odor Lemon light.

Density at 20°C 1.02 g/ml.

Solubility in water Completely miscible.

pH-value ca. 7.5

pH-value (10 g/l water, 20°C) ca. 7

7 ELECTRIC CONDUCTIVITY

HC 10% 1187 μScm^{-1} (acc. EN 27888, at 25°C).

HC concentrated 5300 μScm^{-1} (acc. EN 27888, at 25°C).

8 TOXICITY/BIODEGRADABILITY

HC has been tested at the Hygiene-Institut, Gelsenkirchen, Germany as Bioversal Hochkonzentrat.

Water Hazard Classification (WGK) -1

Biological degradation of HC

-Highly Biodegradable >98% in 12 to 13 days (OECD 301c).

COD: 133 g/l

BOD₅: 88 g/l

-Biological degradation of the anionic detergents in **HC**: >99% within 7 days.

-Biological degradation of **HC** and mineral oil: >99% within 14 days.

9 MINIMUM USABLE TEMPERATURE

4°C (ready to use).

10 STABILITY

Stability Product stability has been tested (**HC** high-concentrated and a 10% dilution). Temperatures from -20°C / -4°F up to +50°C / +122°F (freezing and thawing) do not effect the product quality.

Shelf life Min. 5 years in the original sealed container.

11 STORAGE

Storage Recommendation: The product should be stored and handled with care as generally required with chemicals. We recommend to store **HC** / **HC-S** at temperatures between +0°C / +32°F and +50°C / +122°F.

12 TRANSPORT INFORMATION

The product is not considered dangerous according to transport regulations.

13 PRODUCT NUMBER/PACKAGE

	<u>HC 20 kg (20 L/HD-PE can)</u>	<u>210 kg (210 L/HP-PE cont.)</u>	<u>1000 kg (1000 L/IBC)</u>
HC			
HC-S	FE102J	FE102C	FE101G
	FE112J	FE112C	FE111G

14 WASTE- AND PACKAGE DISPOSAL

Product In compliance with local, state and federal regulations.

Package Clean packages are reusable.

15 OTHER INFORMATION

-**HC** and **HC-S** are produced in Germany under continuous quality control.

The products are registered at the Umwelt Bundes Amt in Berlin.

HC-S: UBA-Nr.: 20780045

HC: UBA-Nr.: 20780046.

-For further safety guidelines see the material safety data sheet.

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