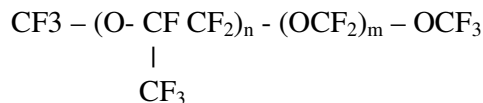


# FOMBLIN® HC/R

## Chemical Structure



$n/m = 20 - 40$

## Identification

<i>INCI Name:</i>	Polyperfluoromethylisopropyl Ether
<i>IUPAC Name:</i>	Trifluoromethyl-poly[oxy-2-trifluoromethyl-1,1,2-trifluoroethylene]- -poly[oxy-difluoro-methylene]-trifluoromethyl ether
<i>Other Chemical Names:</i>	Perfluoropolyether (PFPE), Perfluorinated polyether, Polyoxyperfluoroalkane
<i>CAS Name &amp; Number:</i>	1-Propene,1,1,2,3,3,3 -hexafluoro-, oxydized and polymerised - 69991-67-9
<i>EINECS Number:</i>	Not applicable (since it is a polymer)
<i>ENCS Name &amp; Number (J):</i>	Perfluoro[copolyalkylene(propylene and methylene)]polyether - (7)-2095
<i>CLS Name &amp; Numbers (J):</i>	Perfluoropolyether - 42 (Standard Code), 523159 (Ingredient Code)

## Description and typical properties

Perfluoropolyethers, obtained by oxidative photopolymerization of hexafluoropropene, are odorless, colorless, transparent liquid polymers. They are hydrophobic, lipophobic, vapor permeable, insoluble in organic solvents, chemically and biologically inert, non-flammable.

Fomblin HC/R (MW: 6250) is used as protective persistent emollient, moisture barrier, skin conditioner, Binder and anticracking agent, plasticizer, slow release agent, skin protectant.

### Fomblin HC/R – Typical properties (measures at 20°C)

<i>Average molecular weight</i>	6250	<i>Surface tension</i>	24dyne/cm
<i>Viscosity</i>	1300 cSt	<i>Interfacial tension vs water</i>	55 dyne/cm
<i>Density</i>	1.92 g/ml	<i>Neutralization number</i>	0.01 mgKOH/g
<i>Pour point</i>	-25°C	<i>Refractive index</i>	1.302
<i>Boiling point</i>	>230°C	<i>Purity</i>	>99.9%
<i>Vapor pressure</i>	$10^{-7}$ mmHg		

## Toxicity information and safety

See “Fomblin HC Classic - Dossier of toxicity tests” and “Fomblin HC – Material Safety Data Sheet”

Solvay  
Solexis



Some applications of this product are regulated or restricted by applicable laws and regulations or by national or international standards and in some cases by our own recommendations, which may among other concern food/feed, water treatment, medical devices or pharmaceuticals, personal care, etc. The buyer and the eventual user, in their sole and entire liability, shall comply with the laws and the regulations applicable to our products, their use and/or to the activity of buyer or the eventual user, and shall respect all applicable standards, recommendations, orders of any relevant authority, as well as all existing patents and intellectual properties rights. The buyer and the eventual user must independently determine the suitability of this product for any particular purpose and its manner of use.

Please contact us for further information on grades developed for a specific end-use.

To our present knowledge, the information contained herein is accurate as of the date of this document. However, we do not make any warranty, express or implied, or accept any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use, the manner of use in compliance with relevant legislations and whether any patents are infringed. We reserve our right to make additions, deletions, or modifications to the information at any time without prior notification.

**SOLVAY SOLEXIS S.p.A.**

Viale Lombardia, 20  
20021 Bollate (MI), Italy  
Tel: +39-02-3835 2135/6503  
Fax: +39-02-3835 2129  
www.solvaysolexis.com  
May 2010



a Passion for Progress®