

SAFETY DATA SHEET

Revision Date 09-03-2019

Version 10

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s)	53010530-M
Product Name	HOUGHTO-CLEAN 530
Reach Registration Number	01-2119472146-39-xxxx
Product Registration number	
Denmark	-
Norway	-
Sweden	-
EC #	918-167-1
Pure substance/mixture	Contains Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Cleaning product, solvent based
Uses advised against	Any other purpose.

1.3. Details of the supplier of the safety data sheet

Manufacturer, Importer, Supplier

Houghton plc
Beacon Road
Trafford Park
Manchester
M17 1AF
Tel: +44 (0)161 874 5000
productstewardship@houghtonintl.com

Houghton S.A.S.
604 Bd Albert Camus,
BP 60041
69652 Villefranche sur saone
France
Tel: (0) 4 74 65 65 00
Fax: (0) 4 74 60 08 44

Houghton Iberica S.A.
Pol. Ind. Can Salvatella-TorreMateu
08210 Barbera del Valles
Barcelona
SPAIN
Tel: +(34 93) 718 85 00
Fax: +(34 93) 718 93 00
msds.es@houghtonintl.com

Houghton Deutschland GmbH
Giselherstr. 57. D-44319.
Dortmund
Deutschland
Tel: +49 (0) 231/9277-0
Fax: +49 (0)231/9277-120
MSDS@houghtonintl.com

Ragione Sociale: Houghton Italia S.p.A.
Indirizzo: Via Postiglione, 30
10024 Moncalieri (TO)
ITALY
Telefono: (+39) 011 6475811
Fax: (+39) 0116472778.
ITTN-MSDS@houghtonintl.com

Houghton Benelux B.V.
Hoogoorddreef 15
Unit 3
1101BA Amsterdam
Holland
Telefoon: 00800 1624 5840
Fax: +00 33 474 60 08 44
customerservice.nl@houghtonintl.com

Houghton Sverige AB
La Cours Gata 4
252 31 Helsingborg
Sverige
Tel: +46 42 29 55 10
E-mail: info.se@houghtonintl.com

Houghton Polska SP z.o.o
UlKapelanka 17
30-347 Krakow
Poland
+48 122665240
info@houghton.com.pl

Houghton Ukraine Ltd
Ukraine, Kiev 04213
13, Prirechnaya St.
Phone: +38 (044) 360-10-24
Fax: +38 (044) 426-27-76

Houghton Danmark A/S
Energivej 3
DK-4180 Sorø
Danmark
Tel: +45 45 85 23 00
E-mail: houghton@houghton.dk

Houghton Magyarország Kft.
Noszlopy utca 2.
1103 Budapest
Hungary
Tel: +36 28 999 430
Email: info.hungary@houghtonintl.com

Houghton Kimya San. A.Ş
Kosuyolu Mah
Asma Dall Sok
No: 1434718 Kadıköy
İstanbul
Türkiye
Phone: +90 216 325 15 15
info.tr@houghtonintl.com

Houghton CZ s.r.o.
Bartošova 3
602 00 Brno
Czech Republic
Phone: +420 542 213 332
office@houghton.cz

1.4. Emergency telephone number

Carechem 24 International: +44 1235 239670

Poison Information Center telephone number	
Austria	Vergiftungsinformationszentrale (VIZ) Notruf 0–24 Uhr: +43 1 406 43 43 Bürozeiten: Montag bis Freitag, 8 bis 16 Uhr, Tel.: +43 1 406 68 98
Belgium	Telefoonnummer voor 070 245 245 8002 5500, vanuit Groothertogdom Luxemburg
Bulgaria	Национален токсикологичен информационен център Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" Телефон за спешни случаи +359 2 9154 233
Croatia	Telefon za izvanredna stanja +385 1 2348 342
Czech Republic	Telefonní číslo pro naléhavé situace +420 224 919 293, +420 224 915 402
Denmark	Ring til Giftlinjen på +45 82 12 12 12
Estonia	Mürgistusteabekeskuse 16662 Häirekeskuse 112

Finland	Hätäpuhelinnumero +358 09 471 977
France	Numéro d'appel d'urgence +33 (0)1 45 42 5959
Hungary	Díjmentesen hívható zöld szám +36 80 20 11 99
Iceland	Føroyskt - Landspítali +354 543 22 22
Ireland	Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare Professionals: +353 (1) 809 2566 (24 hour service)
Italy	Numeri telefonici dei principali: FI 055 7947819, MI 02 66101029, PV 038 224444, RM 06 3054343, NA 081 7472901, BG 800883300, FG 800183459
Latvia	Valsts ugunsdzēsības un glābšanas dienests, phone number: 112 Toksikoloģijas un sepses klīnikas Saindēšanās un zāļu informācijas centrs, Hipokrāta 2, Rīga, Latvija, LV-1038, phone number +371 67042473
Lithuania	Neatidėliotina informacija apsinuodijus +370 5 236 20 52
Netherlands	National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)
Norway	Giftinformasjon +47 22 59 13 00
Poland	112
Portugal	Número de telefone de emergência +351 808 250 143
Romania	Număr de telefon care poate fi apelat în caz de urgență +021 318 36 06 (08:00-15:00)
Slovakia	Národné toxikologické informačné centrum +421 2 5477 4166
Spain	
Sweden	112 – Ask for poisons information
Switzerland	145; +41 44 251 51 51 (www.toxi.ch)
Turkey	Ulusal Zehir Danışma Merkezi (UZEM): 114 Acil Sağlık Hizmetleri: 112

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Aspiration toxicity	Category 1 - (H304)
Chronic aquatic toxicity	Category 4 - (H413)
Flammable liquids	Category 3 - (H226)

2.2. Label Elements

Contains Hydrocarbons, C11-C12, isoalkanes, <2% aromatics

EC # 918-167-1



Signal Word
DANGER

Hazard statements

H304 - May be fatal if swallowed and enters airways
H413 - May cause long lasting harmful effects to aquatic life
H226 - Flammable liquid and vapor
EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P331 - Do NOT induce vomiting
P370 + P378 - In case of fire: Use water spray to extinguish
P403 + P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances / 3.2. Mixtures**

Substance

Chemical name	EC-No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	918-167-1	NOT AVAILABLE	50% - 100%	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Chronic Aquatic 4 (H413) (EUH066)	01-2119472146-39-x xxx

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

Full text of H- and EUH-phrases: see section 16

SECTION 4: FIRST AID MEASURES**4.1. Description of first-aid measures**

General advice	Immediate medical attention is required. Do not get in eyes, on skin, or on clothing.
Inhalation	Potential for aspiration if swallowed. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water. Remove and wash contaminated

	clothing before re-use.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Aspiration hazard if swallowed - can enter lungs and cause damage. Do not induce vomiting without medical advice. If symptoms persist, call a physician.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

4.2. Most important symptoms and effects, both acute and delayed

Main Symptoms May be fatal if swallowed and enters airways

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES**5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment; Use CO2, dry chemical, or foam, Water spray or fog, Cool containers / tanks with water spray

Extinguishing media which shall not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture**Special Hazard**

In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Thermal decomposition can lead to release of irritating gases and vapors. Water runoff can cause environmental damage.

Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Advice for non-emergency personnel

Material can create slippery conditions.

Advice for emergency responders For personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent product from

entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills.

6.4. Reference to other sections

See Section 8/12/13 for additional information

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep at temperatures between 5 and 35 °C. Keep out of the reach of children.

Recommended Shelf Life

Shelf life 12 months.

Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases

7.3. Specific end uses

Specific use(s) Cleaning product, solvent based

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

Legend

(s) - Skin; TWA - Time-Weighted Average; STEL - Short Term Exposure Limit; Ceiling - Ceiling Value; TLV® - Threshold Limit Value; PEL (Permissible Exposure Limit)

Chemical name	European Union	United Kingdom	France	Spain
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics				VLA-EC: 10 mg/m ³ VLA-ED: 5 mg/m ³

Spain Límites de Exposición Profesional Para Agentes Químicos en España (Ley 31/1995).

Chemical name	Germany	Italy	Portugal	Netherlands
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics		TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	

Italy Istituto Superiore per la Prevenzione e la Sicurezza del Lavoro (ISPESL), Allegato XXXVIII e Allegato XLIII - Valori Limite di Esposizione Professionale.

Portugal Valores-limite e índices biológicos de exposição profissional a agentes químicos. Quadro 1 - Valores Limite de Exposição (Norma Portuguesa NP 1796:2014).

Chemical name	Austria	Switzerland	Poland	Ireland
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics			TWA: 5 mg/m ³ frakcja wdychalna	STEL: 10 mg/m ³ TWA: 5 mg/m ³ (Mist)

Poland Rozporządzenie Ministra Pracy i Polityki Społecznej z dnia 6 czerwca 2014 w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy (Dz.U. 2016 Nr. 944).

Ireland 2016 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001.

Chemical name	Finland	Denmark	Norway	Sweden
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	TWA: 5mg/m ³ (Öljysumu)		TWA: 1 mg/m ³ (Oljetåke)	TWA: 1 mg/m ³ (Oljedimma)

Finland Förfordningen om koncentrationer som befunnits skadliga, 268/2014 - HTP-arvot 2014.

Norway Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (Forskrift om tiltaks- og grenseverdier), FOR-2011-12-06-1358, FOR-2016-06-21-760, FOR-2016-12-22-1860.

Sweden Arbetsmiljöverkets föreskrifter om hygieniska gränsvärden och allmänna råd om tillämpningen av föreskrifterna.

Chemical name	Czech Republic	Hungary	Bulgaria	Romania
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³

Czech Republic Narizeni vlady 93/2012, kterym se meni narizeni vlady c.361/2007 Sb., kterym se stanoví podmínky ochrany zdraví při práci, ve znění narizeni vlady c.68/2010 Sb.

Bulgaria НАРЕДБА #13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа.

Romania Valori Limit Obligatorii Nationale de expunere profesională ale agenților chimici - Anex Nr.1 Publicat în Monitorul Oficial, Partea I nr. 845.

Hungary 25/2000. (IX. 30.) EüM-SzCsM együttes rendelet a munkahelyek kémiai biztonságáról (62/2016. (XII.29.)).

Chemical name	Greece	Cyprus	Turkey	Malta
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	TWA: 5 mg/m ³			

Greece Οριακές Τιμές Επαγγελματικής Έκθεσης - Προστασία της υγείας και της ασφάλειας των εργαζομένων που εκτίθενται σε ορισμένους καρκινογόνους και μεταλλαξιογόνους παράγοντες 127/2000.

Chemical name	Belgium	Luxembourg	Iceland	Croatia
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	TWA: 5 mg/m ³ STEL: 10 mg/m ³			

Belgium Arrêté royal relatif à la protection de la santé et de la sécurité des travailleurs contre les risques liés à des agents chimiques sur le lieu de travail.

Chemical name	Russia	Estonia	Latvia	Lithuania
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics			TWA: 5 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³

Latvia Ministru Kabineta noteikumi Nr. 325 - Darba aizsardzības prasības, saskaroties ar ķīmiskajām vielām darba vietās.

Lithuania Del Lietuvos higienos normos HN 23:2011 "Cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai".

Chemical name	Belarus	Ukraine	Slovakia	Slovenia
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics			TWA: 5mg/m ³	

Slovakia Nariadenie vlády Slovenskej republiky z 16. januára 2002 o ochrane zdravia pri práci s karcinogénymi a mutagénymi faktormi.

Hydrocarbon solvent vapor mixtures which do not have substance specific occupational exposure limits may be evaluated by the Reciprocal Calculation Procedure (RCP) which assigns a recommended occupational exposure limit based on the mass composition and hydrocarbon group guidance values (GGVs). Applicable recommended occupational exposure limits are shown in the table below.

Chemical name	RCP OEL	Manufacturer
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics NOT AVAILABLE	TWA: 1200 mg/m ³ 177 ppm	

Derived No Effect Level (DNEL)**Workers Systemic toxicity**

Not determined

Workers Local effects

Not determined

Consumers Systemic toxicity

Not determined

Consumers Local effects

Not determined

Predicted No Effect Concentration (PNEC)

Not determined

8.2. Exposure controls**Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Engineering controls should be considered as the first line of protection against adverse exposure to harmful substances. Administrative controls and PPE should be used in the absence of engineering controls or as supplemental controls where engineering controls are insufficient in reducing specific exposures to an acceptable level.

Eye Protection

Safety glasses with side-shields.

Hand Protection

The following glove type may be suitable for handling this product.. Protective gloves complying with EN 374.

Nitrile rubber

Glove thickness => 0.38 mm Break through time => 480 min

Butyl rubber

Glove thickness => 0.64 mm Break through time => 480 min

Glove material suitability will vary depending on specific use conditions. Consideration should be given to variables such as operational characteristics, anticipated contact time, task requirements and other factors relevant to the selection of PPE. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Any specific glove information provided is based on published literature and glove manufacturer data. Barrier creams may help to protect the exposed areas of skin. Barrier creams should not be applied after exposure has occurred. Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Skin and body protection

Long sleeved clothing.

Respiratory protection

No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

This information is based on the state in which the specific product is delivered and on the intended use specified within this SDS. This

Information is provided based on literature reference, manufacturer specifications and recommendations and/or derived by analogy with similar substances. The level of protection and types of exposure controls will vary depending on potential exposure conditions.

Hygiene measures

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Regular cleaning of equipment, work area and clothing is recommended. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls

Do not allow material to contaminate ground water system.

Thermal hazards

None under normal use conditions

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Physical state	liquid	Appearance	clear colorless
Odor	Slight Hydrocarbon-like	Odor threshold	Not Determined
<u>Property</u>	<u>Values</u>	<u>Remarks</u>	
pH	Not applicable		
Melting point / freezing point	< -40 °C / < -40 °F		
Boiling point / boiling range	> 180 °C / > 356 °F		
Flash point	56 °C / 133 °F		
Evaporation rate	0.09	PMCC	
Flammability (solid, gas)	Not Determined	(BuAc = 1)	
Flammability Limit in Air			
Upper flammability limit:	7.0%		
Lower flammability limit:	0.6%		
Vapor pressure	0.1	kPa @ 20 °C	
Vapor density	>1	(Air = 1.0)	
Relative density	0.759	@ 15°C	
Solubility(ies)	Water solubility: negligible		
Partition coefficient	Not Determined		
Autoignition temperature	> 200 °C / > 392 °F		
Decomposition temperature	Not Determined		
Kinematic viscosity	~ 1.3 mm ² /s @ 40 °C	ASTM D 7042	
Explosive properties	Not applicable		
Oxidizing Properties	Not applicable		

9.2. Other information

Viscosity, kinematic (100°C)	Not Determined	
Pour Point	Not Determined	
VOC Content (ASTM E-1868-10)	Not Determined	
VOC content	100 %	2010/75/EC; SR 814.018 (VOCV; CH)

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

None under normal use conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None under normal use conditions

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition. Heat, flames and sparks.

10.5. Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Product Information - Principle Routes of Exposure**

Inhalation	Risk of serious damage to the lungs (by aspiration)
Eye contact	None known
Skin contact	None known
Ingestion	Risk of product entering the lungs on vomiting after ingestion

Acute toxicity - Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Acute toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Sensitization	
Respiratory Sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

Specific target organ systemic toxicity (single exposure)	Based on available data, the classification criteria are not met
Specific target organ systemic toxicity (repeated exposure)	Based on available data, the classification criteria are not met
Aspiration hazard	May be fatal if swallowed and enters airways.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

May cause long-term adverse effects in the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	>1000: 72 h Pseudokirchnerella subcapitata mg/L EC50	>1000: 96 h Oncorhynchus mykiss mg/L LC50	>1000: 48 h Daphnia magna mg/L EC50

12.2. Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

12.3. Bioaccumulative potential

No information available

12.4. Mobility

No information available

12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Dispose of as hazardous waste in compliance with local and national regulations
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Observe all label precautions until container is cleaned, reconditioned or destroyed.
Other Data	According to the European Waste Catalog, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN3295

14.2. UN proper shipping name

HYDROCARBONS, LIQUID, N.O.S.

14.3. Transport hazard class

3

14.4. Packing group

III

14.5. Environmental Hazards

None

14.6. Special precautions for users

None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

IMDG

UN/ID no	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
EmS-No	F-E, S-D
Vessel Stowage Location Code	A
Description	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III, (56°C C.C.)

ADR

UN/ID no	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Classification code	F1
Hazard identification number	30
Description	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III (D/E)

IATA

UN/ID no	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	III
Description	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

ADN

UN/ID no	UN3295
Proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Hazard Class	3
Packing Group	III

Classification code	F1
Hazard label(s)	3
Ventilation	VE01
Equipment Requirements	PP, EX, A
Description	UN3295, HYDROCARBONS, LIQUID, N.O.S., 3, III

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)
Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)
Safety Data Sheet according to Regulation EC 1907/2006 (REACH) with its amendment regulation EC 2015/830
European Agreement concerning the International Carriage of Dangerous Goods by Road/ Regulations concerning the International Carriage of Dangerous Goods by Rail
International Civil Aviation Organization / International Air Transport Association Dangerous Goods Regulation

Restrictions on use

This product does not contain substances above concentrations required for disclosure which are subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance(s) of Very High Concern

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Dangerous substance category per Seveso Directive (2012/18/EU)

Category	Qualifying quantity (tonnes) for the application of lower-tier requirements	Qualifying quantity (tonnes) for the application of upper-tier requirements
P5c - FLAMMABLE LIQUIDS	5000	50000

Named dangerous substances per Seveso Directive (2012/18/EU)

Not applicable

Biocidal Products Regulation (EU) No 528/2012 (BPR)

Not applicable

National regulations**Germany****WGK Classification**

Low hazard to water/Class 1

United Kingdom

Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009.
Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990.
Regulation on classification, labeling, of hazardous chemicals (2002 changing 2005). Appendix VI to Regulation on classification, labeling etc. of hazardous chemicals (2002 changing 2010), list of hazardous substances (as amended). Guidelines for submission and declaration of hazardous waste (2009). Transport of dangerous goods: ADR, RID, IMDG and IATA. Administrative norms for

pollution of the atmosphere, 2009.
Workplace exposure limits (EH40)

International Regulations**Ozone-depleting substances (ODS)**

Not applicable

Persistent Organic Pollutants

Not applicable

Chemicals Subject to Prior Informed Consent (PIC)

Not applicable

International Inventories

Inventory information may be utilizing alternative CAS#s or exemptions beyond those stated within this document. For further information, please contact: ProductStewardship@houghtonintl.com.

TSCA	-
DSL	Complies
AICS	Complies
PICCS	Complies
KECL	Complies
IECSC	Complies
ENCS	Complies
TCSI	Complies
NZIoC	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
AICS - Australian Inventory of Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
ENCS - Japan Existing and New Chemical Substances
TCSI - Taiwan National Existing Chemical Inventory
NZIoC - New Zealand Inventory of Chemicals

Other Information

Not applicable

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Repr.-Reproduction toxicity
Asp. Tox. - Aspiration Toxicity
Acute Tox. - Acute Toxicity
Aquatic Acute - Acute Aquatic Toxicity
Aquatic Chronic - Chronic Aquatic Toxicity
Eye Dam. - Eye Damage
Eye Irrit. - Eye Irritation
Skin Corr. - Skin Corrosion
Skin Irrit. - Skin Irritation
Skin Sens. - Skin Sensitizer
Resp. Sens. - Respiratory Sensitizer
STOT SE - Specific target organ systemic toxicity (Single exposure)
STOT RE - Specific target organ systemic toxicity (repeated exposure)
VOC - Volatile organic compounds

Full text of H-Statements which may be referred to under Sections 2 and 3

<ul style="list-style-type: none">• H224 - Extremely flammable liquid and vapor• H225 - Highly flammable liquid and vapor• H226 - Flammable liquid and vapor• H270 - May cause or intensify fire; oxidizer• H271 - May cause fire or explosion; strong oxidizer• H272 - May intensify fire; oxidizer• H290 - May be corrosive to metals• H300 - Fatal if swallowed• H301 - Toxic if swallowed• H302 - Harmful if swallowed• H304 - May be fatal if swallowed and enters airways• H310 - Fatal in contact with skin• H311 - Toxic in contact with skin• H312 - Harmful in contact with skin• H314 - Causes severe skin burns and eye damage• H315 - Causes skin irritation• H317 - May cause an allergic skin reaction• H318 - Causes serious eye damage• H319 - Causes serious eye irritation• H330 - Fatal if inhaled• H331 - Toxic if inhaled• H332 - Harmful if inhaled• H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled• H335 - May cause respiratory irritation• H336 - May cause drowsiness or dizziness• H340 - May cause genetic defects	<ul style="list-style-type: none">• H341 - Suspected of causing genetic defects• H350 - May cause cancer• H351 - Suspected of causing cancer• H360 - May damage fertility or the unborn child• H361 - Suspected of damaging fertility or the unborn child• H362 - May cause harm to breast-fed children• H370 - Causes damage to organs• H371 - May cause damage to organs• H372 - Causes damage to organs through prolonged or repeated exposure• H373 - May cause damage to organs through prolonged or repeated exposure• H400 - Very toxic to aquatic life• H410 - Very toxic to aquatic life with long lasting effects• H411 - Toxic to aquatic life with long lasting effects• H412 - Harmful to aquatic life with long lasting effects• H413 - May cause long lasting harmful effects to aquatic life• H360Df - May damage the unborn child. Suspected of damaging fertility• H360D - May damage the unborn child• H360FD - May damage fertility. May damage the unborn child• H360F - May damage fertility• H361d - Suspected of damaging the unborn child• H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child• H361f - Suspected of damaging fertility• EUH066 - Repeated exposure may cause skin dryness or cracking• EUH210 - Safety data sheet available on request• EUH208 - May produce an allergic reaction
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Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Physical hazards	On basis of test data
Health Hazards	Calculation Method
Environmental Hazards	Calculation Method

Revision Date 09-03-2019

Revision Note This SDS has been revised in the following section(s), Company Logo, 8.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information

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