

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
Regulation (EU) No 830/2015

Revision 2, Replaces Rev. 1

Revised: March 2019

HYDROSCOUT HIGH RANGE OIL REAGENTS

SECTION 1: Identification of the substance/mixture and the company/undertaking

1.1. Product identifier

Product Description: The HYDROSCOUT product line is an On-Site test kit for quantifying water in used oil and other hydrocarbon matrices.

This product is a mixture. For identification of the individual components, see section 3.

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

This product contains prepackaged reagents for the analysis of oil or soil samples for water contamination.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Dexsil Corporation
One Hamden Park Drive
Hamden, CT 06517

Telephone Number: (203) 288-3509
Email: info@dexsil.com

Importer: ETI Umwelttechnik AG
Kalchbuhlstrasse 18
7007 Chur, Switzerland

Telephone Number: (081) 253 54 54
Email: info@eti-swiss.com

1.4. Emergency telephone number

USA (800) 424-9300 (CHEMTREC) SWITZERLAND (435) 08 20 11

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

White capped vial(dilution kit): diglyme			
Flammable Liquid 3;H226	Flammable liquid and vapor.	Reproductive toxicity 1A,1B;H360FD	May damage fertility. May damage the unborn child.
Carcinogen. 2;H351	Suspected of causing cancer.		

2.2. Label elements

White Capped Vial (dilution kit): Diglyme



Danger

H226 flammable liquid and vapor.

H360FD* May damage fertility. May damage the unborn child.

[Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P308+313 IF exposed or concerned: Get medical advice / attention.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

For additional information on toxicity, please refer to Section 11.

Section 3: Composition/information on ingredients

3.2. Mixtures

The HYDROSCOUT Dilution Kit Reagents consist of a black-screw cap vial for measuring high water levels (>20%) in oils.

Component	Contents	CAS#	EC#	% liquid
White Capped Vial (dilution kit)	Diglyme ^{1,2}	111-96-6	203-924-4	100.00%

¹A REACH registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

²Bis(2-methoxyethyl)ether Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).

Section 4: First aid measures

4.1. Description of first aid measures

First Aid: In case of contact with reagents, rinse well with water.

Eye Contact: For all kit components, flush eyes with large amounts of water for 15 minutes. Seek medical attention.

Skin contact: Flush with large amounts of water. Use soap and water to wash away organic components.

Inhalation: In case of inhalation, remove to fresh air.

Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available.

Section 5: Firefighting measures

5.1. Extinguishing media

Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or CO₂.

Special Fire Fighting Procedures Wear SCBA. Avoid breathing fumes that will form on combustion.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Wear SCBA. Avoid breathing fumes that will form on combustion.

5.4. Further information

No data available.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment incl., chemical safety glasses and rubber gloves. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations.

6.2. Environmental precautions

Keep out of drains and surface water.

6.3. Methods for material containment and cleaning up

Contain spillage by wet-brushing and place in container for disposal according to local regulations. Store in a well ventilated area away from moisture.

Section 7: Handling and storage

7.1. Precautions for safe handling

Wear appropriate safety equipment when performing the test on site.

7.2. Conditions for safe storage, including any incompatibilities

Store test kits in a cool, dry place. Check expiration date prior to performing test.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Components with work place control parameters

White Capped Vial (dilution kit) – Diglyme

Derived No Effect Level (DNEL)

Application Area	Exposure routes	Health effect	Value
Workers	Inhalation	Long-term systemic effects	26,8 mg/m ³
Workers	Skin contact	Long-term systemic effects	2,08mg/kg BW/d
Consumers	Inhalation	Long-term systemic effects	6,67 mg/m ³
Consumers	Skin contact	Long-term systemic effects	1,04mg/kg BW/d
Consumers	Ingestion	Long-term systemic effects	1,04mg/kg BW/d

Predicted No Effect Concentration (PNEC)

Compartment	Value
Water	9,43 mg/l
Soil	1,72 mg/kg
Marine water	0,64 mg/l
Fresh water	6,4 mg/l
Marine sediment	2,74 mg/kg
Fresh water sediment	27,4 mg/kg
Onsite sewage treatment plant	50 mg/l

8.2. Exposure controls

Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day.

Personal Protective Equipment (PPE)

Respiratory protection	None required during normal use.
Ventilation	Perform test only in a well-ventilated area.
Protective gloves	Always wear rubber gloves when performing the test.
Eye protection	Wear safety glasses.
General Hygiene Measures	Avoid contact with skin, eyes and clothing. Wash after running tests.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<u>Property</u>	<u>Diglyme</u>
Boiling Pt. °C	163
Vapor Pressure mm Hg @ 21°C	1.7
Solubility in Water	100%
Specific Gravity	0.95
Percent Volatile	100
Evaporation Rate Butyl Acetate =1	0.36

Appearance	colorless
Odor	ether-like

N/A = not available

Section 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

All components are stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep from strong oxidizers.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Diglyme may form peroxides on exposure to air.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

White Capped Ampule (Diglyme) - LD50 Oral - Rat - 5.400 mg/kg
Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Ataxia. Respiratory disorder

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

White Capped Ampule (Diglyme) - Laboratory experiments have shown teratogenic effects.
Presumed human reproductive toxicant.
Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

Section 12: Ecological information

12.1. Toxicity

No data available.

12.2. Persistence and degradability

HS-High Range Oil EU(ETI)

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.

12.6. Other adverse effects

No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with all applicable federal, state and local environmental regulations.

Section 14: Transportation information

In accordance with ADR / RID / IMDG / IATA

14.1. UN number

White Capped Ampule (Diglyme): 1993

14.2. UN proper shipping name

White Capped Ampule (Diglyme): Ethers, n.o.s. (Bis(2-methoxyethyl)ether)
Package quantities ship as: **Dangerous Goods in Excepted Quantities**

14.3. Transport hazard class(es)

White Capped Ampule (Diglyme): 3

14.4. Packing group

White Capped Ampule (Diglyme): III

14.5. Environmental hazards

No data available.

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

The cargo is not intended to be carried in bulk.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This SDS complies with the requirements of Regulation (EC) No. 1907/2006.

Authorizations and/or restrictions on use

White Capped Ampule (Diglyme)

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

Bis(2-methoxyethyl)ether

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).

Bis(2-methoxyethyl)ether

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.
Listed substance / Sunset Date: Bis(2-methoxyethyl)ether / 22.08.2017

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

EINECS: Components of this product are on the European Inventory of Existing Commercial Chemical Substances.

Swiss Regulatory Information:

Federal Act on Protection against Dangerous Substances and Preparations (Chemicals Act, ChemA) of 15 December 2000 (Status as of 13 June 2006) SR 813.1

Ordinance on Protection against Dangerous Substances and Preparations (Chemicals Ordinance, ChemO) of 18 May 2005 (Status as of 15 July 2014) 813.11

Ordinance on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles (Chemical Risk Reduction Ordinance, ORRChem) of 18 May 2005 (Status as of 1 January 2014) SR 814.81

Federal Act on the Protection of the Environment (Environmental Protection Act, EPA) of 7 October 1983 (Status as of 1 July 2014) 814.01

Fifth Ordinance on the federal Act about Work (Occupational Safety For The Youth) ArGV 5 of 28 September 2007 (Status as of 1 August 2014) SR 822.115.2

Ordinance from the department of Economy, Education and Research on dangerous and difficult chores during pregnancy and maternity (Maternity Protection Ordinance) of 20 March 2001 (Status as of 1 January 2013) SR 822.111.52

Ordinance from the department of Environment, Traffic, Energy and Communications about Lists on the traffic of waste of 18 October 2005 (Status as of 1 January 2010) SR 814.610.1

Federal Act on Work in Industry, Trade and Commerce (Federal Act on Work) of 13 March 1964 (Status as of 1 December 2013)

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

Section 16: Other information

The information in this Safety Data Sheet meets the requirements of Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No 830/2015. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and danger of these chemicals for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. These chemicals may interact with other substances. Since the potential uses are so varied, Dexsil cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Dexsil warrants that the chemicals meet the specifications set forth on the label.

DEXSIL DISCLAIMS ANY OTHER WARRANTIES; EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, IT'S MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Dexsil will periodically revise this Safety Data Sheet.

CHEMTREC emergency telephone number is to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals.

For additional information, contact Dexsil.