

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
DIESTONE HFP**

Regulation (EU) n. 2020/878

**Safety Data Sheet date: 22/1/2024, version 10****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name: DIESTONE HFP  
SDS code: P28283  
UFI: QPQR-PG0Y-8M2X-UXA5

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

Recommended use:

Solvent  
Cleaner  
Industrial uses

Uses advised against:

No uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet****Manufacturers:**

Socomore SASU

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**Competent person responsible for the safety data sheet:**

techdirsocomore@socomore.com

**1.4. Emergency telephone number**

France : ORFILA (INRS) +33 (0)1 45 42 59 59

International : CHEMTEL +1-813-248-0585.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****EC regulation criteria 1272/2008 (CLP)**

- ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
- ⚠ Warning, STOT SE 3, May cause drowsiness or dizziness.
- ⚠ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.  
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

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No other hazards

### 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P331 Do NOT induce vomiting.

P370+P378 In case of fire, use a CO2 fire extinguisher to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

2-methoxy-1-methylethyl acetate

HYDROCARBONS, C9, AROMATICS

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

### 2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration  $\geq 0.1\%$


## SECTION 3: Composition/information on ingredients

### 3.1. Substances

N.A.

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
$\geq 40\%$ - $< 50\%$	HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2%	EC: 919-857-5	 2.6/3 Flam. Liq. 3 H226

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	AROMATICS	REACH No.: 01- 2119463258 -33	<ul style="list-style-type: none"> <li>⚠ 3.10/1 Asp. Tox. 1 H304</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> </ul> EUH066
>= 25% - < 30%	(2-Methoxymethylethoxy)-propanol	Index number: 603_998_97_1 CAS: 34590-94-8 EC: 252-104-2 REACH No.: 01-2119450011-60	Substance with a Union workplace exposure limit.
>= 20% - < 25%	2-methoxy-1-methylethyl acetate	Index number: 607-195-00-7 CAS: 108-65-6 EC: 203-603-9 REACH No.: 01-2119475791-29	<ul style="list-style-type: none"> <li>⚠ 2.6/3 Flam. Liq. 3 H226</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> </ul> EUH066
>= 7% - < 10%	HYDROCARBONS, C9, AROMATICS	EC: 918-668-5 REACH No.: 01-2119455851-35	<ul style="list-style-type: none"> <li>⚠ 2.6/3 Flam. Liq. 3 H226</li> <li>⚠ 3.8/3 STOT SE 3 H335</li> <li>⚠ 3.10/1 Asp. Tox. 1 H304</li> <li>⚠ 3.8/3 STOT SE 3 H336</li> <li>⚠ 4.1/C2 Aquatic Chronic 2 H411</li> </ul> EUH066 Acute Toxicity Estimate: ATE - Oral 3592 mg/kg bw
>= 1% - < 3%	mesitylene; 1,3,5-trimethylbenzene	Index number: 601-025-00-5 CAS: 108-67-8 EC: 203-604-4 REACH No.: 01-2119463878-19	<ul style="list-style-type: none"> <li>⚠ 2.6/3 Flam. Liq. 3 H226</li> <li>⚠ 3.8/3 STOT SE 3 H335</li> <li>⚠ 4.1/C2 Aquatic Chronic 2 H411</li> </ul> Specific Concentration Limits: C >= 25%: STOT SE 3 H335
>= 0.001% - < 0.1%	ethylbenzene	Index number: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4 REACH No.: 01-2119489370-35	<ul style="list-style-type: none"> <li>⚠ 2.6/2 Flam. Liq. 2 H225</li> <li>⚠ 3.2/2 Skin Irrit. 2 H315</li> <li>⚠ 3.3/2 Eye Irrit. 2 H319</li> <li>4.1/C3 Aquatic Chronic 3 H412</li> <li>⚠ 3.1/4/Inhal Acute Tox. 4 H332</li> <li>⚠ 3.9/2 STOT RE 2 H373 (hearing organs)</li> <li>⚠ 3.10/1 Asp. Tox. 1 H304</li> </ul> Acute Toxicity Estimate: ATE - Inhalation (Vapours) 11 mg/l

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>= 0.001% - < 0.1%	Xylene	CAS: 1330-20-7 EC: 215-535-7 REACH No.: 01-2119488216-32	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.1/4/Dermal Acute Tox. 4 H312 ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 3.9/2 STOT RE 2 H373 4.1/C3 Aquatic Chronic 3 H412 Acute Toxicity Estimate: ATE - Dermal 1100 mg/kg bw ATE - Inhalation (Vapours) 11 mg/l ATE - Inhalation (Dust/mist) 1,5 mg/l ATE - Inhalation (Gas) 5000 ppmV
>= 0.001% - < 0.1%	toluene	Index number: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 REACH No.: 01-2119471310-51	⚠ 2.6/2 Flam. Liq. 2 H225 ⚠ 3.7/2 Repr. 2 H361d ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.9/2 STOT RE 2 H373 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.8/3 STOT SE 3 H336 4.1/C3 Aquatic Chronic 3 H412
>= 0.001% - < 0.1%	Cumene	Index number: 601-024-00-X CAS: 98-82-8 EC: 202-704-5	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.6/1B Carc. 1B H350 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.8/3 STOT SE 3 H335 ⚠ 4.1/C2 Aquatic Chronic 2 H411
>= 0.001% - < 0.1%	1-methoxy-2-propanol; monopropylene glycol methyl ether	Index number: 603-064-00-3 CAS: 107-98-2 EC: 203-539-1 REACH No.: 01-2119457435-35	⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.8/3 STOT SE 3 H336

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

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Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No particular treatment.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

Suitable extinguishing media:

In case of fire, use a CO<sub>2</sub> fire extinguisher to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

### **5.3. Advice for firefighters**

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

### **6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

### **6.3. Methods and material for containment and cleaning up**

Wash with plenty of water.

### **6.4. Reference to other sections**

See also section 8 and 13

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

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Don't use empty container before they have been cleaned.

Before making transfer operations, ensure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

#### 7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at ambient temperatures. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

#### 7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limit values

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

- OEL Type: National - TWA: 1200 mg/m<sup>3</sup>, 197 ppm - Notes: ExxonMobil

- OEL Type: National - TWA: 300 mg/m<sup>3</sup> - STEL: 900 mg/m<sup>3</sup> - Notes: Poland (NDS, DNSCh)

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

- OEL Type: National - TWA(8h): 310 mg/m<sup>3</sup> - Notes: Germany - Notes DFG, EU

- OEL Type: National - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: France VLEC - TMP N° 84

- OEL Type: EU - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: Skin

- OEL Type: National - TWA: 270 mg/m<sup>3</sup> - STEL: 550 mg/m<sup>3</sup> - Notes: Czech Republic

- OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: Liver & CNS eff

- OEL Type: National - TWA(8h): 308 mg/m<sup>3</sup>, 50 ppm - Notes: UK - Skin

- OEL Type: National - TWA: 307 mg/m<sup>3</sup>, 50 ppm - STEL(5 min (Mow)): 614 mg/m<sup>3</sup>, 100 ppm - Notes: Österreich

- OEL Type: National - TWA: 308 mg/m<sup>3</sup>, 50 ppm - Notes: TWA Poland

- OEL Type: National - TWA: 240 mg/m<sup>3</sup> - STEL: 480 mg/m<sup>3</sup> - Notes: Poland (NDS, NDSCh)

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

- OEL Type: ACGIH - TWA(8h): 150 ppm - STEL: 100 ppm

- OEL Type: National - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Behaviour: Binding - Notes: France VLEPC

- OEL Type: National - TWA(8h): 270 mg/m<sup>3</sup>, 50 ppm - Notes: GERMANY

- OEL Type: National - TWA(8h): 274 mg/m<sup>3</sup>, 50 ppm - STEL: 548 mg/m<sup>3</sup>, 100 ppm - Notes: UK (WELs)

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- OEL Type: National - TWA: 260 mg/m<sup>3</sup> - STEL: 520 mg/m<sup>3</sup> - Notes: POLAND
  - OEL Type: EU - TWA(8h): 275 mg/m<sup>3</sup>, 50 ppm - STEL: 550 mg/m<sup>3</sup>, 100 ppm - Notes: Skin
  - OEL Type: AIHA
  - TWA: 50 ppm
  - OEL Type: National - TWA: 275 mg/m<sup>3</sup>, 50 ppm - STEL(5 min (Mow)): 550 mg/m<sup>3</sup>, 100 ppm - Notes: Österreich
  - OEL Type: National - TWA: 270 mg/m<sup>3</sup>, 50 ppm - Notes: Norway (Skin)
- HYDROCARBONS, C9, AROMATICS
- OEL Type: National - TWA(8h): 1000 mg/m<sup>3</sup> - STEL(15min (Miw)): 1500 mg/m<sup>3</sup> - Notes: Ministère du travail (France, 12/2021)
- mesitylene; 1,3,5-trimethylbenzene - CAS: 108-67-8
- OEL Type: National - TWA(8h): 100 mg/m<sup>3</sup> - Notes: Germany - DFG, EU, Y
  - OEL Type: National - TWA(8h): 100 mg/m<sup>3</sup>, 20 ppm - STEL: 250 mg/m<sup>3</sup>, 50 ppm - Notes: France VLEC (INRS -TMP N° 84)
  - OEL Type: National - TWA(4h): 100 mg/m<sup>3</sup>, 20 ppm - Notes: France VLEI
  - OEL Type: EU - TWA(8h): 100 mg/m<sup>3</sup>, 20 ppm
  - OEL Type: ACGIH - TWA(8h): 10 ppm - Notes: CNS impair, hematologic eff
  - OEL Type: National - TWA: 100 mg/m<sup>3</sup>, 20 ppm - STEL(15min (Miw)): 150 mg/m<sup>3</sup>, 30 ppm - Notes: Osterreich
- ethylbenzene - CAS: 100-41-4
- OEL Type: National - TWA(8h): 88.4 mg/m<sup>3</sup>, 20 ppm - Notes: Germany - EU, H
  - OEL Type: National - TWA(8h): 88.4 mg/m<sup>3</sup>, 20 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: France VLEC - TMP N° 84
  - OEL Type: National - TWA(8h): 441 mg/m<sup>3</sup>, 100 ppm - STEL: 552 mg/m<sup>3</sup>, 125 ppm - Notes: UK (WELs)
  - OEL Type: EU - TWA(8h): 442 mg/m<sup>3</sup>, 100 ppm - STEL: 884 mg/m<sup>3</sup>, 200 ppm - Notes: Skin
  - OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: OTO; A3, BEI - URT & eye irr; ototoxicity; kidney eff; CNS impair
  - OEL Type: National - STEL: 220 mg/m<sup>3</sup> - Notes: Swiss
  - OEL Type: MAK - TWA: 440 mg/m<sup>3</sup>, 100 ppm - STEL(5 min (Mow)): 880 mg/m<sup>3</sup>, 200 ppm - Notes: Osterreich
- Xylene - CAS: 1330-20-7
- OEL Type: National - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL(15min (Miw)): 442 mg/m<sup>3</sup>, 100 ppm - Notes: France VLEC - TMP N° 4Bis, 84
  - OEL Type: National - TWA(8h): 440 mg/m<sup>3</sup>, 100 ppm - Notes: Germany - DFG, H
  - OEL Type: National - TWA(8h): 220 mg/m<sup>3</sup>, 50 ppm - STEL: 441 mg/m<sup>3</sup>, 100 ppm - Notes: UK (WELs)
  - OEL Type: EU - TWA(8h): 221 mg/m<sup>3</sup>, 50 ppm - STEL: 442 mg/m<sup>3</sup>, 100 ppm - Notes: Skin
  - OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: A4, BEI - URT and eye irr; hematologic eff; CNS impair
  - OEL Type: National - TWA: 435 mg/m<sup>3</sup>, 100 ppm - STEL: 870 mg/m<sup>3</sup>, 200 ppm - Notes: Swiss - SUVA



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- OEL Type: National - TWA: 221 mg/m<sup>3</sup>, 50 ppm - STEL(15min (Miw)): 442 mg/m<sup>3</sup>, 100 ppm - Notes: Österreich
- toluene - CAS: 108-88-3
  - OEL Type: National - TWA(8h): 190 mg/m<sup>3</sup> - Notes: Germany - DFG, H, Y
  - OEL Type: National - TWA(8h): 76.8 mg/m<sup>3</sup>, 20 ppm - STEL(15min (Miw)): 384 mg/m<sup>3</sup>, 100 ppm - Notes: France VLEC - TMP N° 4bis, 84
  - OEL Type: EU - TWA(8h): 192 mg/m<sup>3</sup>, 50 ppm - STEL: 384 mg/m<sup>3</sup>, 100 ppm - Notes: Skin
  - OEL Type: National - TWA: 191 mg/m<sup>3</sup>, 50 ppm - STEL: 384 mg/m<sup>3</sup>, 100 ppm - Notes: UK (WELs)
  - OEL Type: ACGIH - TWA(8h): 20 ppm - Notes: OTO; A4; BEI - CNS, visual & hearing impair; female repro system eff; pregnancy loss
  - OEL Type: MAK - TWA: 190 mg/m<sup>3</sup>, 50 ppm - STEL(15min (Miw)): 380 mg/m<sup>3</sup>, 100 ppm - Notes: Österreich
- Cumene - CAS: 98-82-8
  - OEL Type: EU - TWA(8h): 50 mg/m<sup>3</sup>, 10 ppm - STEL: 250 mg/m<sup>3</sup>, 50 ppm - Notes: Skin
  - OEL Type: ACGIH - TWA(8h): 5 ppm - Notes: A3 - URT adenoma, neurological eff
  - OEL Type: National - TWA(8h): 50 mg/m<sup>3</sup>, 10 ppm - STEL(15min (Miw)): 250 mg/m<sup>3</sup>, 50 ppm - Behaviour: Binding - Notes: France, VLEPC / peau
  - OEL Type: National - TWA: 50 mg/m<sup>3</sup> - STEL: 250 mg/m<sup>3</sup> - Notes: Poland (Skin / skóra)
- 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2
  - OEL Type: National - TWA(8h): 188 mg/m<sup>3</sup>, 50 ppm - STEL: 375 mg/m<sup>3</sup>, 100 ppm - Notes: France VLEC - INRS TMP N°84
  - OEL Type: National - TWA: 370 mg/m<sup>3</sup>, 100 ppm - Notes: Germany
  - OEL Type: National - TWA: 180 mg/m<sup>3</sup> - STEL: 360 mg/m<sup>3</sup> - Notes: Poland
  - OEL Type: EU - TWA(8h): 375 mg/m<sup>3</sup>, 100 ppm - STEL: 563 mg/m<sup>3</sup>, 150 ppm - Notes: Skin
  - OEL Type: ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr
  - OEL Type: National - TWA: 187 mg/m<sup>3</sup>, 50 ppm - STEL(15min (Miw)): 187 mg/m<sup>3</sup>, 50 ppm - Notes: Austria
  - OEL Type: National - TWA(8h): 375 mg/m<sup>3</sup>, 100 ppm - STEL(15min (Miw)): 560 mg/m<sup>3</sup>, 150 ppm - Notes: United Kingdom - Skin
  - OEL Type: National - TWA(8h): 188 mg/m<sup>3</sup>, 50 ppm - STEL: 375 mg/m<sup>3</sup>, 100 ppm - Notes: Canada (Gazette Officielle du Québec, January 4, 2023, Vol. 155, No.1)
  - OEL Type: National - TWA: 180 mg/m<sup>3</sup>, 50 ppm - Notes: Norway (skin)

#### DNEL Exposure Limit Values

##### HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Worker Industry: 208 mg/kg b.w./day - Consumer: 125 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 871 mg/m<sup>3</sup> - Consumer: 185 mg/kg b.w./day - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 125 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

##### (2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Worker Industry: 65 mg/kg b.w./day - Consumer: 15 mg/kg b.w./day - Exposure: Human



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Dermal - Frequency: Long Term, systemic effects

Worker Industry: 310 mg/m<sup>3</sup> - Consumer: 37.2 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 1.67 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Worker Industry: 796 mg/kg b.w./day - Consumer: 320 mg/kg b.w./day - Exposure: Human

Dermal - Frequency: Long Term, systemic effects

Worker Industry: 275 mg/m<sup>3</sup> - Consumer: 33 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 36 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 550 mg/m<sup>3</sup> - Consumer: 33 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, local effects

**HYDROCARBONS, C9, AROMATICS**

Worker Industry: 25 mg/kg b.w./day - Consumer: 11 mg/kg b.w./day - Exposure: Human

Dermal - Frequency: Long Term, systemic effects

Worker Industry: 150 mg/m<sup>3</sup> - Consumer: 32 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 11 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

ethylbenzene - CAS: 100-41-4

Worker Industry: 77 mg/m<sup>3</sup> - Consumer: 15 mg/m<sup>3</sup> - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 180 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 293 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Xylene - CAS: 1330-20-7

Worker Professional: 289 mg/m<sup>3</sup> - Consumer: 174 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 289 mg/m<sup>3</sup> - Consumer: 174 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 180 mg/kg b.w./day - Consumer: 108 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/m<sup>3</sup> - Consumer: 14.8 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 1.6 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

toluene - CAS: 108-88-3

Worker Professional: 384 mg/m<sup>3</sup> - Consumer: 226 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 192 mg/m<sup>3</sup> - Consumer: 56.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

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Worker Professional: 180 mg/kg - Consumer: 226 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 384 mg/m<sup>3</sup> - Consumer: 226 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Worker Industry: 369 mg/m<sup>3</sup> - Consumer: 43.9 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 50.6 mg/kg b.w./day - Consumer: 18.1 mg/kg b.w./day - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 3.3 mg/kg b.w./day - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 553.5 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term (acute)

#### PNEC Exposure Limit Values

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Target: Fresh Water - Value: 19 mg/l

Target: Marine water - Value: 1.9 mg/l

Target: Microorganisms in sewage treatments - Value: 4168 mg/l

Target: Freshwater sediments - Value: 70.2 mg/kg - Notes:: mg/kg p.s.

Target: Marine water sediments - Value: 7.02 mg/kg - Notes:: mg/kg p.s.

Target: Soil (agricultural) - Value: 2.74 mg/kg - Notes:: mg/kg p.s.

Target: Water (intermittent discharge) - Value: 190 mg/l

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Target: Fresh Water - Value: 0.635 mg/l

Target: Marine water - Value: 0.0635 mg/l

Target: Microorganisms in sewage treatments - Value: 100 mg/l

Target: Freshwater sediments - Value: 3.29 mg/kg dw

Target: Marine water sediments - Value: 0.329 mg/kg dw

Target: Soil - Value: 0.29 mg/kg

Target: PNEC intermittent - Value: 6.35 mg/l

ethylbenzene - CAS: 100-41-4

Target: Marine water - Value: 0.01 mg/l - Notes:: factor assessment : 10

Target: Marine water - Value: 0.1 mg/l - Notes:: factor assessment : 18

Target: PNEC predator - Value: 2.68 mg/kg - Notes:: ECHA

Xylene - CAS: 1330-20-7

Target: Marine water - Value: 0.327 mg/l - Notes:: evaluation factor : 1

Target: Marine water sediments - Value: 12.46 mg/kg

Target: Soil (agricultural) - Value: 2.31 mg/kg

Target: Microorganisms in sewage treatments - Value: 6.58 mg/l

Target: Soil - Value: 2.31 mg/kg - Notes:: Assessment factor/ 1 / ECHA

toluene - CAS: 108-88-3

Target: Fresh Water - Value: 0.68 mg/l

Target: Freshwater sediments - Value: 16.39 mg/kg

Target: Soil (agricultural) - Value: 2.89 mg/kg

## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

### DIESTONE HFP

Target: Microorganisms in sewage treatments - Value: 13.61 mg/l  
 1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2  
 Target: Fresh Water - Value: 10 mg/l  
 Target: Freshwater sediments - Value: 41.6 mg/kg  
 Target: Marine water sediments - Value: 4.17 mg/kg  
 Target: Soil (agricultural) - Value: 2.47 mg/kg  
 Target: Microorganisms in sewage treatments - Value: 100 mg/l  
 Target: Marine water - Value: 1 mg/l  
 Target: Water (intermittent discharge) - Value: 100 mg/l

#### Biological Exposure Index

Xylene - CAS: 1330-20-7

Value: 1.5 g/g - medium: Urinary creatinine - Biological Indicator: Methyl hippuric acid in urine - Sampling Period: End of turn - Remark: ACGIH BEL (2009)

Value: 1.500 mg/g - medium: Urinary creatinine - Biological Indicator: Methyl hippuric acid in urine - Sampling Period: End of turn - Remark: FR IBE (1997)

#### 8.2. Exposure controls

See below, example of PPE to use.

Eye protection:

Safety goggles (EN 166)

Protection for skin:

Chemical protection clothing.

Protection for hands:

Suitable gloves type: NF EN374

NBR (nitrile rubber).

PVA (Polyvinyl alcohol).

Respiratory protection:

Use adequate protective respiratory equipment.

Mask with filter "A1" , brown colour (NF EN14387)

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

Other conditions affecting workers exposure:

None

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	--
Colour:	Colourless	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	Not Relevant	--	--

## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

### DIESTONE HFP

Boiling point or initial boiling point and boiling range:	121 °C	NF T67-101	--
Flammability:	Flam. Liq. 3, H226	--	--
Lower and upper explosion limit:	0.6-14%	--	--
Flash point (°C):	39 °C	NF EN ISO 13736	--
Auto-ignition temperature:	276 °C	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	<= 14 mm <sup>2</sup> /sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	1,3 mmHg (20°C)	--	--
Density and/or relative density:	0.86	ISO 649, ASTM D1298	--
Relative vapour density:	4.8	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Explosive properties:	yes	--	May form explosive mixtures with air. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics)

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### DIESTONE HFP

Viscosity:	< 7 mm <sup>2</sup> /s (40°C)	--	--
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Volatile Organic compounds - VOCs = 860 g/l

N.A. = not available

---

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

Stable under normal conditions

##### 10.2. Chemical stability

Stable under normal conditions

##### 10.3. Possibility of hazardous reactions

None

##### 10.4. Conditions to avoid

Stable under normal conditions.

##### 10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

##### 10.6. Hazardous decomposition products

None.

---

#### SECTION 11: Toxicological information

##### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

DIESTONE HFP

Acute toxicity

Not classified

Based on available data, the classification criteria are not met

Skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

Carcinogenicity

Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

STOT-single exposure

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))**  
**DIESTONE HFP**

The product is classified: STOT SE 3 H336

STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

Aspiration hazard

The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Duration: 4h - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Duration: 24 hours - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m3 - Duration: 4h - Source: OECD 403

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Acute toxicity

ATE - Oral 5001 mg/kg bw

ATE - Dermal 9510 mg/kg bw

ATE - Inhalation (Vapours) 3,35 mg/l

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 9510 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 3350 mg/m3 - Notes: aerosol, 7h

Test: ATE - Route: Oral > 5000 mg/kg

Test: ATE - Route: Inhalation Vapour = 3.35 mg/l - Duration: 7h

Test: ATE - Route: Skin = 9510 mg/kg

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: OECD 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OECD 402

Test: LC50 - Route: Inhalation - Species: Rat > 10.8 mg/l

Test: LC50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: OECD 402

Test: LC0 - Route: Inhalation Vapour - Species: Rabbit = 23.5 mg/l - Source: OECD 403

Test: ATE - Route: Oral > 5000 mg/kg

Test: ATE - Route: Inhalation Vapour > 23.5 mg/l - Duration: 6 hours

Test: ATE - Route: Skin > 5000 mg/kg

HYDROCARBONS, C9, AROMATICS

Acute toxicity

ATE - Oral 3592 mg/kg bw

Test: LD50 - Route: Oral - Species: Rabbit (male, female) = 3492 mg/kg - Source: OECD 401

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 6193 mg/m3 - Duration: 4h - Source: OECD 403

Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg - Source: OECD 402

Test: ATE - Route: Oral = 3492 mg/kg

mesitylene; 1,3,5-trimethylbenzene - CAS: 108-67-8

**Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))  
DIESTONE HFP**

## Acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit &gt; 2000 mg/kg

Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg

Test: LD50 - Route: Oral - Species: Rat &lt; 5000 mg/kg

ethylbenzene - CAS: 100-41-4

## Acute toxicity

ATE - Inhalation (Vapours) 11 mg/l

Test: LD50 - Route: Skin - Species: Rabbit = 4100 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat &gt; 20 mg/l - Duration: 4h

Test: LCL0 - Route: Inhalation - Species: Rat = 4000 ppm - Duration: 4h

Xylene - CAS: 1330-20-7

## Acute toxicity

ATE - Dermal 1100 mg/kg bw

ATE - Inhalation (Vapours) 11 mg/l

ATE - Inhalation (Dust/mist) 1,5 mg/l

ATE - Inhalation (Gas) 5000 ppmV

Test: LC50 - Route: Inhalation - Species: Rat = 5000 ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 3523 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit = 12126 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 27124 mg/m<sup>3</sup> - Duration: 4h

Test: ATE - Route: Skin = 1100 mg/kg bw

Test: ATE - Route: Inhalation Vapour = 11 mg/l

Test: ATE - Route: Inhalation (dust, mist) = 1.5 mg/l

Test: ATE - Route: Inhalation Gas = 5000 ppmV

toluene - CAS: 108-88-3

## Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5580 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit &gt; 5000 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat = 28.1 mg/l - Duration: 4h

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

## Acute toxicity:

Test: LD50 - Route: Oral - Species: Rat &gt; 2000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit &gt; 2000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat &gt; 5 mg/l - Duration: 4h

**11.2. Information on other hazards**

## Endocrine disrupting properties:

No endocrine disruptor substances present in concentration  $\geq 0.1\%$ 

## Other toxicological information:

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, &lt;2% AROMATICS

Irritating to eyes and skin.

Repeated exposure may cause dryness or cracking of the skin.

Inhalation of vapours may cause drowsiness and dizziness.



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Inhalation - May irritate respiratory tracts.

Inhalation of vapours may cause headaches, nausea, vomiting and impaired consciousness.

Ingestion:

Severe lung damage, irritation of the digestive tract, nausea, vomiting and diarrhea. Risk of central nervous system depression.

-

Xylene

Skin contact:

Irritating effect

Ingestion:

Ingestion may cause irritation of the digestive tract, nausea, vomiting and diarrhea, abdominal pain.

Harmful by inhalation.

-

toluene

Skin contact:

Irritating effect

Eye contact:

Irritating effect

Inhalation of high concentration of vapours may cause irritation of the respiratory system.

Inhalation of high concentration vapours causes a narcotic reaction on the central nervous system, and severe lung damage.

Ingestion may cause irritation of the digestive tract, nausea, vomiting and diarrhea, abdominal pain.

Risk of central nervous system depression.

---

**SECTION 12: Ecological information****12.1. Toxicity**

Adopt good working practices, so that the product is not released into the environment.

DIESTONE HFP

The product is classified: Aquatic Chronic 3 - H412

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Pseudokirchnerella subcapitata

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: DSEO-R (NOELR) - Species: Algae = 3 mg/l - Duration h: 72 - Notes: Pseudokirchnerella subcapitata - biomass - OECD 201)

Endpoint: DSEO-R (NOELR) - Species: Algae = 100 mg/l - Duration h: 72 - Notes: Pseudokirchnerella subcapitata - growth rate - EOCED 201)

b) Aquatic chronic toxicity:

Endpoint: DSEO-R (NOELR) - Species: Daphnia = 0.23 mg/l - Duration h: 504 - Notes: Daphnia

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### DIESTONE HFP

magna - QSAR Petrotox

Endpoint: DSEO-R (NOELR) - Species: Fish = 0.13 mg/l - Duration h: 672 - Notes: Oncorhynchus mykiss - QSAR Petrotox

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Poecilia reticulata

Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 96 - Notes: Crangon crangon

Endpoint: EC50 - Species: Algae > 969 mg/l

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia > 0.5 mg/l - Duration h: 528 - Notes: LOEC: > 0,5 mg/l, 22 days

e) Plant toxicity:

Endpoint: NOEC = 250000 mg/l

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Aquatic plants > 1000 mg/l - Duration h: 72 - Notes: Selenastrum capricornutum, OECD 201

Endpoint: LC50 - Species: Fish = 134 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss, OECD 203

Endpoint: EC50 - Species: Invertebrates > 500 mg/l - Duration h: 48 - Notes: Daphnia magna

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 47.5 mg/l - Duration h: 336 - Notes: Oryzias latipes, OECD 204

Endpoint: NOEC - Species: Invertebrates > 100 mg/l - Duration h: 504 - Notes: Daphnia magna, OECD 202

HYDROCARBONS, C9, AROMATICS

a) Aquatic acute toxicity:

Endpoint: EL50

- Species: Algae = 2.6 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata ;

Endpoint: EL50

- Species: Daphnia Magna = 3.2 mg/l - Duration h: 48 - Notes: OECD 202

Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96 - Notes: OECD 203, Oncorhynchus mykiss

Endpoint: ErL50 - Species: Algae = 2.9 mg/kg/d - Duration h: 72 - Notes: OECD 201, Pseudokirchneriella subcapitata

Endpoint: NOEC - Species: Microorganisms >= 99 mg/l - Duration h: 0.16 - Notes: OECD 209 - Activated sludge

b) Aquatic chronic toxicity:

Endpoint: NOELR - Species: Fish = 2.14 mg/l - Duration h: 504 - Notes: Daphnia magna

Endpoint: NOELR - Species: Fish = 1.23 mg/l - Duration h: 504 - Notes: Oncorhynchus mykiss

Endpoint: NOEC - Species: Fish > 1 mg/l

mesitylene; 1,3,5-trimethylbenzene - CAS: 108-67-8

a) Aquatic acute toxicity:

Endpoint: LL50

- Species: Fish > 1 mg/l - Notes: LL/EL/IL50

Endpoint: LL50

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### DIESTONE HFP

- Species: Daphnia > 1 mg/l - Notes: LL/EL/IL50

Endpoint: LL50

- Species: Algae > 1 mg/l - Notes: LL/EL/IL50

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1 mg/l

c) Bacteria toxicity:

Endpoint: LL50

- Species: bacteria > 100 mg/l - Notes: LL/EL/IL50

ethylbenzene - CAS: 100-41-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 1.37 mg/l - Duration h: 48

Endpoint: EC50 - Species: Daphnia < 4.4 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 4.2 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish > 1 mg/l

Xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia > 100 mg/l - Duration h: 24

Endpoint: LC50 - Species: Daphnia < 1000 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Daphnia = 1.0 mg/l - Duration h: 48

Endpoint: TLM - Species: Fish = 22 ppm - Duration h: 96 - Notes: Crapet Arlequin

Endpoint: IC50 - Species: Algae = 2.2 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 72

toluene - CAS: 108-88-3

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 134 mg/l - Duration h: 3 - Notes: Chlorella vulgaris

Endpoint: EC50 - Species: Daphnia = 3.78 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 5.5 mg/l - Duration h: 96 - Notes: Oncorhynchus kisutch

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.74 mg/l - Duration h: 168 - Notes: Ceriodaphnia dubia

Endpoint: NOEC - Species: Algae = 10 mg/l - Duration h: 72 - Notes: Skeletonema costatum

Endpoint: EC50 - Species: Daphnia = 3.23 mg/l - Duration h: 168 - Notes: Ceriodaphnia dubia

Endpoint: LOEC

- Species: Daphnia = 2.76 mg/kg/d - Duration h: 168 - Notes: Ceriodaphnia dubia

Endpoint: NOEC - Species: Fish = 1.39 mg/l - Duration h: 960 - Notes: Oncorhynchus kisutch

Endpoint: LOEC

- Species: Fish = 2.77 mg/l - Duration h: 960 - Notes: Oncorhynchus kisutch

c) Bacteria toxicity:

Endpoint: NOEC - Species: bacteria = 29 mg/l - Duration h: 16 - Notes: pseudomonas putida

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: Leuciscus idus, LC/EC/IC50

Endpoint: LC50 - Species: Daphnia > 1000 mg/l - Duration h: 48 - Notes: LC/EC/IC50

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### DIESTONE HFP

Endpoint: LC50 - Species: Algae > 1000 mg/l - Notes: LC/EC/IC50

Endpoint: LC50 - Species: Fish < 4600 mg/l - Duration h: 96 - Notes: Leuciscus idus

#### 12.2. Persistence and degradability

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

Biodegradability: Biodegradability rate - Duration: 28 days - %: 80%

Biodegradability: Photodegradation (in air)

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Biodegradability: Biodegradability rate - Test: OECD 301F - Duration: 28 days - %: 75

Biodegradability: Biodegradability rate - Test: OECD 302B - Duration: 13 days - %: 93

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

Biodegradability: Biological oxygen demand (BOD) - Test: OECD 301F - Duration: 28 days - %: 83% - Notes: ISO 9408; 92/69/CEE, C.4-D

HYDROCARBONS, C9, AROMATICS

Biodegradability: Biodegradation in water - Test: OECD 301F - Duration: 28 days - %: 78%

toluene - CAS: 108-88-3

Biodegradability: Readily biodegradable - Duration: 14 days - %: 100

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Biodegradability: Readily biodegradable

#### 12.3. Bioaccumulative potential

(2-Methoxymethylethoxy)-propanol - CAS: 34590-94-8

Log Pow 1.01

BCF < 100

2-methoxy-1-methylethyl acetate - CAS: 108-65-6

BCF < 100

Log Pow < 3

HYDROCARBONS, C9, AROMATICS

Log Pow 4.73

BCF 10 - 2500

ethylbenzene - CAS: 100-41-4

Log Kow 3.15

Xylene - CAS: 1330-20-7

Low bioconcentration potential

Log Pow 3.12

BCF 8.1 - 25.9

toluene - CAS: 108-88-3

BCF 90

Log Pow 2.65

1-methoxy-2-propanol; monopropylene glycol methyl ether - CAS: 107-98-2

Log Pow 0.37

#### 12.4. Mobility in soil

N.A.

#### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

#### 12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration  $\geq$  0.1%

#### 12.7. Other adverse effects

No harmful effects expected.

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**DIESTONE HFP**

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Codes of wastes (Décision 2001/573/EC, Directive 2006/12/EEC, Directive 94/31/EEC on hazardous waste):

14 06 03\* Other solvents and solvent mixtures

**SECTION 14: Transport information**



**14.1. UN number or ID number**

ADR-UN Number: 1993  
 IATA-UN Number: 1993  
 IMDG-UN Number: 1993

**14.2. UN proper shipping name**

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS, 2-methoxy-1-methylethyl acetate)  
 IATA-Shipping Name: FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS, 2-methoxy-1-methylethyl acetate)  
 IMDG-Shipping Name: FLAMMABLE LIQUID, N.O.S. (HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS, 2-methoxy-1-methylethyl acetate)

**14.3. Transport hazard class(es)**

ADR-Class: 3  
 ADR - Hazard identification number: 30  
 IATA-Class: 3  
 IATA-Label: 3  
 IMDG-Class: 3

**14.4. Packing group**

ADR-Packing Group: III  
 IATA-Packing group: III  
 IMDG-Packing group: III

**14.5. Environmental hazards**

ADR-Environmental Pollutant: No  
 IMDG-Marine pollutant: No  
 IMDG-EmS: F-E , S-E

**14.6. Special precautions for user**

ADR-Subsidiary hazards: -  
 ADR-S.P.: 274 601 640E  
 ADR-Transport category (Tunnel restriction code): 3 (D/E)  
 IATA-Passenger Aircraft: 355  
 IATA-Subsidiary hazards: -

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IATA-Cargo Aircraft: 366  
IATA-S.P.: A3  
IATA-ERG: 3L  
IMDG-Subsidiary hazards: -  
IMDG-Stowage and handling: Category A  
IMDG-Segregation: -  
Q.L.: 5L  
Q.E.: E1

**14.7. Maritime transport in bulk according to IMO instruments**

N.A.

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/669 (ATP 11 CLP)  
Regulation (EU) n. 2018/1480 (ATP 13 CLP)  
Regulation (EU) n. 2019/521 (ATP 12 CLP)  
Regulation (EU) n. 2020/217 (ATP 14 CLP)  
Regulation (EU) n. 2020/1182 (ATP 15 CLP)  
Regulation (EU) n. 2021/643 (ATP 16 CLP)  
Regulation (EU) n. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 30

Restriction 48

Restriction 75

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DIESTONE HFP**

Listed or in compliance with the following international inventories:

N.A.

The following substance(s) in this product has/have an identification by CAS number either in countries not affected by the REACH regulation or in regulations not yet updated to reflect the new naming convention for hydrocarbon solvents:

HYDROCARBONS, C9, AROMATICS. (CAS: 64742-95-6)

HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS (CAS: 64742-48-9)

Labelling of detergents (EC Regulations 648/2004 and 907/2006):

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aromatic hydrocarbons  $\geq$  5% - < 15%

aliphatic hydrocarbons  $\geq$  30%

Labelling of biocides (Regulations 1896/2000, 1687/2002, 2032/2003, 1048/2005, 1849/2006, 1451/2007 and Directive 98/8/EC):

N.A.

N.A.

Where applicable, refer to the following regulatory provisions :

Directive 2003/105/CE ('Activities linked to risks of serious accidents') and subsequent amendments.

1999/13/EC (VOC directive)

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

**15.2. Chemical safety assessment**

No

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**SECTION 16: Other information**

N.A.: Not Applicable or Not Available

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.



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EUH066 Repeated exposure may cause skin dryness or cracking.  
 H335 May cause respiratory irritation.  
 H411 Toxic to aquatic life with long lasting effects.  
 H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H412 Harmful to aquatic life with long lasting effects.  
 H332 Harmful if inhaled.  
 H373 (hearing organs) May cause damage to organs (hearing organs) through prolonged or repeated exposure.  
 H312 Harmful in contact with skin.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H361d Suspected of damaging the unborn child.  
 H350 May cause cancer.

Hazard class and hazard category	Code	Description
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Carc. 1B	3.6/1B	Carcinogenicity, Category 1B
Repr. 2	3.7/2	Reproductive toxicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

This safety data sheet has been completely updated in compliance to Regulation 2020/878.  
 Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

## Safety Data Sheet (Regulation (EC) n. 1907/2006 (REACH))

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1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

Important confidentiality : this document contains confidential information that is proprietary to SOCOMORE. Subject to legal provisions determining otherwise, the distribution, republication or re-transmission of this document, in full or in part, must be limited to clearly identified individuals, either because they use the product, or to provide HSE information. Any communication of this document outside of this framework without our written consent is strictly forbidden.

SOCOMORE strongly advises every recipient of this safety data sheet to read it carefully and to consult experts in the field if necessary or appropriate, in order to understand the information it contains, notably the possible dangers associated with this product. The users must ensure the conformity and completeness of this information with regards to their specific use of the product.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the responsibility of the purchaser/user to ensure that their activities conform with current legislation in force.

The information is considered correct, but it is not exhaustive and it shall be used only as a guide which is based on the current knowledge of the substance or mixture and it is applicable to the safety precautions appropriate for the product.

ADR: European Agreement concerning the International Carriage of  
Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

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DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
STOT SE:	May cause drowsiness or dizziness
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.