

**HEC Liquid Polymer**

Version 1.9

Revision Date 2026-08-24

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2020/878

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1****Product information**

Product Name : HEC Liquid Polymer  
Material : 1114125, 1101269, 1016918

**EC-No.Registration number**

| Chemical name                                  | CAS-No.<br>EC-No.<br>Index No.        | Legal Entity<br>Registration number                                  |
|------------------------------------------------|---------------------------------------|----------------------------------------------------------------------|
| C12-C14 Isoalkanes                             | 68551-19-9<br>271-369-5               | Chevron Phillips Chemicals International NV<br>01-2119491311-45-0000 |
| C12-C14 Isoalkanes                             | 68551-19-9<br>271-369-5               | Chevron Phillips Chemical Company LP<br>01-2119491311-45-0001        |
| Distillates (petroleum),<br>hydrotreated light | 64742-47-8                            | Chevron Phillips Chemicals International NV<br>01-2119456620-43-0010 |
| Isoprene                                       | 78-79-5<br>201-143-3<br>601-014-00-5  | Chevron Phillips Chemicals International NV<br>01-2119457891-29-0009 |
| Styrene                                        | 100-42-5<br>202-851-5<br>601-026-00-0 | Chevron Phillips Chemicals International NV<br>01-2119457861-32-0005 |
| Oxirane                                        | 75-21-8<br>200-849-9<br>603-023-00-X  | Chevron Phillips Chemicals International NV<br>01-2119432402-53-0030 |

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

Relevant Identified Uses : Drilling Fluid Additive  
Supported  
Uses advised against : This material should not be used for purposes other than the identified uses in section 1 without expert advice.

**1.3****Details of the supplier of the safety data sheet**

**Company** : Chevron Phillips Chemical Company LP  
Drilling Specialties Company LLC  
9500 Lakeside Blvd.  
The Woodlands, TX 77381

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**1.4****Emergency telephone:****Health:**

866.442.9628 (North America)

1.832.813.4984 (International)

**Transport:**

CHEMTREC 800.424.9300 or 703.527.3887(int'l)

Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Argentina: +(54)-1159839431

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)

Belgium: 070 245 245 (24 hours/day, 7 days/week)

Bulgaria: +359 2 9154 233

Croatia: +3851 2348 342 (24 hours/day, 7 days/week)

Cyprus: 1401

Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402

Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212

Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)

France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)

Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Greece: (0030) 2107793777 (24 hours/day, 7 days/week)

Hungary: +36-80-201-199 (24 hours/day, 7 days/week)

Iceland: 543 2222 (24 hours/day, 7 days/week)

Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Italy: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02

66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia

clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù

Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000;

POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326;

POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870;

POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055

7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382

24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883

300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011

858;

Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic

Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371

67042473. (24 hours.)

Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Lithuania: +370 (85) 2362052

Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)

Malta: +356 2395 2000

The Netherlands: NVIC: +31 (0)88 755 8000

Norway: 22 59 13 00 (24 hours/day, 7 days/week)

Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Portugal: CIAV phone number: +351 800 250 250

Romania: +40213183606

Slovakia: +421 2 5477 4166

Slovenia: Phone number: 112

Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)

Sweden: 112 – ask for Poisons Information

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Organization that prepared the SDS : Product Safety and Toxicology Group  
 E-mail address : SDS@CPChem.com  
 Website : www.CPChem.com

**SECTION 2: Hazards identification****2.1**

**Classification of the substance or mixture**  
**REGULATION (EC) No 1272/2008**

Aspiration hazard, Category 1 H304:  
 May be fatal if swallowed and enters airways.

**2.2**

**Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H304 May be fatal if swallowed and enters airways.

Precautionary Statements : **Response:**  
 P301 + P310 IF SWALLOWED: Immediately call a  
 POISON CENTER/ doctor.  
 Do NOT induce vomiting.  
**P331**  
**Storage:**  
 P405 Store locked up.  
**Disposal:**  
 P501 Dispose of contents/ container to an  
 approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

- 68551-19-9 C12-C14 Isoalkanes
- 64742-47-8 Distillates (petroleum), hydrotreated light

**2.3****Other hazards**

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.

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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**SECTION 3: Composition/information on ingredients****3.2 Mixtures**

Synonyms : Drilling Mud Additive  
Liquid HEC Polymer  
HEC 25 Liquid Polymer

Molecular formula : Mixture

**Hazardous ingredients**

| Chemical name                                  | CAS-No.<br>EC-No.<br>Index No. | Classification<br>(REGULATION (EC)<br>No 1272/2008) | Concentration<br>[wt%] | Specific Conc.<br>Limits, M-factors<br>and ATEs |
|------------------------------------------------|--------------------------------|-----------------------------------------------------|------------------------|-------------------------------------------------|
| Distillates (petroleum),<br>hydrotreated light | 64742-47-8                     | Asp. Tox. 1; H304                                   | 0 - 60                 |                                                 |
| C12-C14 Isoalkanes                             | 68551-19-9<br>271-369-5        | Asp. Tox. 1; H304                                   | 0 - 60                 |                                                 |

For the full text of the H-Statements mentioned in this Section, see Section 16.

**SECTION 4: First aid measures****4.1****Description of first-aid measures**

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**4.2 Most important symptoms and effects, both acute and delayed****Notes to physician**

Symptoms : No data available.

Risks : No data available.

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

Treatment : No data available.  
Treat symptomatically.

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**SECTION 5: Firefighting measures**

Flash point : 93°C (199°F)  
Method: Tag closed cup

**5.1****Extinguishing media**

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media : High volume water jet.

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

Specific hazards during fire fighting : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.3****Advice for firefighters**

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

Fire and explosion protection : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

**SECTION 6: Accidental release measures****6.1****Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment. Ensure adequate ventilation.

**6.2****Environmental precautions**

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3****Methods and materials for containment and cleaning up**

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

**6.4****Reference to other sections**

Reference to other sections : For personal protection see section 8. For disposal considerations see section 13.

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**SECTION 7: Handling and storage****7.1****Precautions for safe handling  
Handling**

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.

**7.2****Conditions for safe storage, including any incompatibilities****Storage**

Requirements for storage areas and containers : No smoking. Keep in a well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Uses advised against : This material should not be used for purposes other than the identified uses in section 1 without expert advice.

**SECTION 8: Exposure controls/personal protection****8.1****Control parameters  
Ingredients with workplace control parameters****Chevron Phillips Chemical Company LP**

| Components         | Basis        | Value | Control parameters | Note |
|--------------------|--------------|-------|--------------------|------|
| C12-C14 Isoalkanes | Manufacturer | TWA   | 1.200 mg/m3        | RCP, |

**SK**

| Zložky                                                               | Podstata | Hodnota        | Kontrolné parametre | Poznámka                               |
|----------------------------------------------------------------------|----------|----------------|---------------------|----------------------------------------|
| Cellulose, 2-Hydroxyethyl Ether                                      | SK OEL   | NPEL priemerný | 5 mg/m3             | Tabuľka č. 6, Pre celkovú koncentráciu |
| Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, hydrogenated | SK OEL   | NPEL priemerný | 5 mg/m3             | Tabuľka č. 6, Pre celkovú koncentráciu |

Tabuľka č. 6 pevné aerosóly s prevažne dráždivým účinkom

**SI**

| Sestavine          | Osnova | Vrednost | Parametri nadzora | Pripomba |
|--------------------|--------|----------|-------------------|----------|
| C12-C14 Isoalkanes | SI OEL | MV       | 300 mg/m3         |          |

**LV**

| Sastāvdaļas                                                          | Bāze   | Vērtība  | Kontroles parametri | Piezīme |
|----------------------------------------------------------------------|--------|----------|---------------------|---------|
| Cellulose, 2-Hydroxyethyl Ether                                      | LV OEL | AER 8 st | 5 mg/m3             |         |
| Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene, hydrogenated | LV OEL | AER 8 st | 5 mg/m3             |         |

**8.2****Exposure controls  
Engineering measures**

SDS Number:100000013691

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Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

- |                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection   | : | If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors, Dusts and Mists. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection. |
| Hand protection          | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves. 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, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.                                                                                                                                                                                   |
| Eye protection           | : | Eye wash bottle with pure water. Tightly fitting safety goggles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Skin and body protection | : | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant protective clothing. Footwear protecting against chemicals.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Hygiene measures         | : | When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

**SECTION 9: Physical and chemical properties****9.1****Information on basic physical and chemical properties****Appearance**

- |                |   |                   |
|----------------|---|-------------------|
| Form           | : | liquid            |
| Physical state | : | liquid            |
| Color          | : | Opaque            |
| Odor           | : | Hydrocarbon       |
| Odor Threshold | : | No data available |

**Safety data**

- |             |   |                                        |
|-------------|---|----------------------------------------|
| Flash point | : | 93°C (199°F)<br>Method: Tag closed cup |
|-------------|---|----------------------------------------|

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|                                         |                                    |
|-----------------------------------------|------------------------------------|
| Lower explosion limit                   | : No data available                |
| Upper explosion limit                   | : No data available                |
| Molecular formula                       | : Mixture                          |
| Molecular weight                        | : Not applicable                   |
| pH                                      | : 7                                |
| Pour point                              | : No data available                |
| Initial boiling point and boiling range | : 217°C (423°F)                    |
| Vapor pressure                          | : 0,70 MMHG<br>at 37,8°C (100,0°F) |
| Relative density                        | : 0,78<br>at 15,6 °C (60,1 °F)     |
| Water solubility                        | : negligible                       |
| Partition coefficient: n-octanol/water  | : No data available                |
| Viscosity, kinematic                    | : 2,6 cSt<br>at 38°C (100°F)       |
| Relative vapor density                  | : 3                                |
| Evaporation rate                        | : 0,01                             |

**SECTION 10: Stability and reactivity****10.1**

**Reactivity** : Stable at normal ambient temperature and pressure.

**10.2**

**Chemical stability** : This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**10.3****Possibility of hazardous reactions**

**Hazardous reactions** : Further information: No decomposition if stored and applied as directed.

Hazardous reactions: Vapors may form explosive mixture with air.

**10.4**

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**Conditions to avoid** : Heat, flames and sparks.

10.5

**Materials to avoid** : No data available.

10.6

**Other data** : No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

11.1

**Information on toxicological effects****Acute oral toxicity**

Distillates (petroleum),  
hydrotreated light : LD50: > 15.000 mg/kg  
Species: Rat  
Sex: male and female  
Method: OECD Test Guideline 423  
Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes : LD50: > 5.000 mg/kg  
Species: Rat  
Sex: male and female  
Method: OECD Test Guideline 401  
Information given is based on data obtained from similar substances.

**Acute inhalation toxicity**

Distillates (petroleum),  
hydrotreated light : LC50: > 4,9 mg/l  
Exposure time: 4 h  
Species: Rat  
Sex: male and female  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes : LC50: > 4,9 mg/l  
Exposure time: 4 h  
Species: Rat  
Sex: male and female  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.  
Information given is based on data obtained from similar substances.

**Acute dermal toxicity**

Distillates (petroleum),  
hydrotreated light : LD50: > 5.000 mg/kg  
Species: Rat  
Sex: male and female  
Method: OECD Test Guideline 402

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Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

LD50: &gt; 2.000 - 2.500 mg/kg

Species: Rabbit

Sex: male and female

Method: OECD Test Guideline 402

Information given is based on data obtained from similar substances.

**Skin irritation**

Distillates (petroleum),  
hydrotreated light

: No skin irritation

Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

May irritate skin. Information given is based on data obtained from similar substances.

**Eye irritation**

Distillates (petroleum),  
hydrotreated light

: No eye irritation

Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

No eye irritation

Information given is based on data obtained from similar substances.

**Sensitization**

Distillates (petroleum),  
hydrotreated light

: Does not cause skin sensitization.

Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Did not cause sensitization on laboratory animals.

Information given is based on data obtained from similar substances.

**Repeated dose toxicity**

Distillates (petroleum),  
hydrotreated light

: Species: Rat, male and female

Sex: male and female

Application Route: oral gavage

Dose: 25, 150, 1000 mg/kg/d

NOEL: &gt; 1.000 mg/kg

Method: OECD Test Guideline 422

Information given is based on data obtained from similar substances.

Species: Rat, male and female

Sex: male and female

Application Route: Inhalation

Dose: 2600, 5200, 10400 mg/m<sup>3</sup>

Exposure time: 13 wk

Number of exposures: 6 h/d, 5 d/wk

NOEL: > 10400 mg/m<sup>3</sup>

Method: OECD Test Guideline 413

Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Species: Rat, male and female

Sex: male and female

Application Route: oral gavage

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Dose: 100, 500, 1000 mg/kg/d  
Exposure time: 13 wk  
Number of exposures: daily  
NOEL: > 1000 mg/kg/d  
Method: OECD Test Guideline 408  
No adverse effects expected  
Information given is based on data obtained from similar substances.

Species: Rat, male and female  
Sex: male and female  
Application Route: Inhalation  
Dose: 2600, 5200, 10400 mg/m<sup>3</sup>  
Exposure time: 90 d  
Number of exposures: 6 h/d; 5d/wk  
NOEL: > 10400 mg/m<sup>3</sup>  
Method: OECD Test Guideline 413  
No adverse effects expected  
Information given is based on data obtained from similar substances.

**Genotoxicity in vitro**

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Distillates (petroleum),  
hydrotreated light

: Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

Test Type: In vitro mammalian cell gene mutation test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Mouse lymphoma assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Sister Chromatid Exchange Assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 479  
Result: negative

**Genotoxicity in vivo**

Distillates (petroleum),  
hydrotreated light

: Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

Test Type: Dominant lethal assay  
Method: OECD Test Guideline 478  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Test Type: dominant lethal test  
Species: Rat  
Route of Application: Intraperitoneal injection  
Dose: 300, 900 ppm  
Method: OECD Test Guideline 478  
Remarks: Information given is based on data obtained from similar substances.

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**Reproductive toxicity**

Distillates (petroleum), hydrotreated light : No adverse effects expected  
Information given is based on data obtained from similar substances.

**Developmental Toxicity**

Distillates (petroleum), hydrotreated light : No adverse effects expected  
Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

Species: Rat  
Application Route: Inhalation  
Dose: 0, 400, 1200 ppm  
Exposure time: 6h  
Test period: GD 6-15  
NOAEL Teratogenicity: 1200 ppm  
NOAEL Maternal: 1200 ppm  
Information given is based on data obtained from similar substances.

Species: Rat  
Application Route: Inhalation  
Dose: 300, 900 ppm  
Exposure time: 6h  
Test period: GD 6-15  
NOAEL Teratogenicity:  $\geq 900$  ppm  
NOAEL Maternal:  $\geq 900$  ppm  
Information given is based on data obtained from similar substances.

**Aspiration toxicity**

Distillates (petroleum), hydrotreated light : May be fatal if swallowed and enters airways.  
C12-C14 Isoalkanes : May be fatal if swallowed and enters airways.

**CMR effects**

C12-C14 Isoalkanes : Carcinogenicity: Not available  
Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show mutagenic effects  
Teratogenicity: Animal testing did not show any effects on fetal development.  
Reproductive toxicity: Animal testing did not show any effects on fertility.

**11.2****Information on other hazards****HEC Liquid Polymer  
Further information**

: Solvents may degrease the skin.

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Endocrine disrupting  
properties

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 12: Ecological information****12.1****Toxicity****Toxicity to fish**Distillates (petroleum),  
hydrotreated light

: LL50: > 88.444 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
static test Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

LL50: > 1.000 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
semi-static test Method: OECD Test Guideline 203  
Information given is based on data obtained from similar substances.

**Toxicity to daphnia and other aquatic invertebrates**Distillates (petroleum),  
hydrotreated light

: EL50: > 1.000 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
static test Method: OECD Test Guideline 202  
Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

EL50: > 1.000 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
static test Method: OECD Test Guideline 202  
Information given is based on data obtained from similar substances.

**Toxicity to algae**Distillates (petroleum),  
hydrotreated light

: EL50: > 1.000 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (algae)  
Growth inhibition Method: OECD Test Guideline 201  
Information given is based on data obtained from similar substances.

C12-C14 Isoalkanes

EL50: > 1.000 mg/l  
Exposure time: 72 h  
Species: Pseudokirchneriella subcapitata (green algae)  
Growth inhibition Method: OECD Test Guideline 201  
Information given is based on data obtained from similar substances.

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substances.

**Toxicity to fish (Chronic toxicity)**

Distillates (petroleum),  
hydrotreated light : NOELR: > 1.000 mg/l  
Exposure time: 28 d  
Method: QSAR modeled data

C12-C14 Isoalkanes No data available:

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

Distillates (petroleum),  
hydrotreated light : NOELR: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
semi-static test  
Method: OECD Test Guideline 211  
Information given is based on data obtained from similar  
substances.

**12.2****Persistence and degradability****Biodegradability**

Distillates (petroleum),  
hydrotreated light : aerobic  
Result: Readily biodegradable.  
68 %  
Testing period: 28 d  
Information given is based on data obtained from similar  
substances.

C12-C14 Isoalkanes : aerobic  
Result: Readily biodegradable.  
89,8 %  
Testing period: 28 d  
Method: OECD Test Guideline 301F  
Information given is based on data obtained from similar  
substances.

**12.3****Bioaccumulative potential****Bioaccumulation**

Distillates (petroleum),  
hydrotreated light : This material is not expected to bioaccumulate.  
C12-C14 Isoalkanes : The product may be accumulated in organisms.

**12.4****Mobility in soil****Mobility**

Distillates (petroleum),  
hydrotreated light : No data available  
C12-C14 Isoalkanes : immobile

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**12.5****Results of PBT and vPvB assessment**

Results of PBT 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****Endocrine disrupting properties**

Endocrine disrupting properties : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7****Other adverse effects**

Additional ecological information : No data available

**12.8****Additional Information****Ecotoxicology Assessment****Short-term (acute) aquatic hazard**

Distillates (petroleum), hydrotreated light : This material is not expected to be harmful to aquatic organisms.

C12-C14 Isoalkanes : This material is not expected to be harmful to aquatic organisms.

**Long-term (chronic) aquatic hazard**

Distillates (petroleum), hydrotreated light : This material is not expected to be harmful to aquatic organisms.

C12-C14 Isoalkanes : This material is not expected to be harmful to aquatic organisms.

**SECTION 13: Disposal considerations****13.1****Waste treatment methods**

The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product : Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.

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Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.  
Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information****14.1 - 14.7****Transport information**

**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Testing (ASTM D4206) has shown product does not sustain combustion.

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

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

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The synthetic polymer microparticles supplied is subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

**15.2**

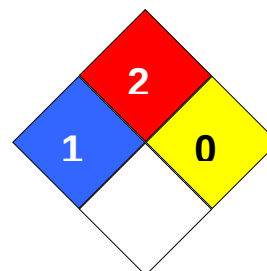
**Major Accident Hazard Legislation** : ZEU\_SEVES3 Update:  
Not applicable

**Notification status**

|                                     |   |                                                                                                                                                         |
|-------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Europe EU REACH                     | : | This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006 (REACH).                                   |
| Switzerland CH INV                  | : | Not in compliance with the inventory                                                                                                                    |
| United States of America (USA) TSCA | : | All substances listed as active on the TSCA inventory                                                                                                   |
| Canada DSL                          | : | All components of this product are on the Canadian DSL                                                                                                  |
| Australia AU AIC                    | : | On the inventory, or in compliance with the inventory                                                                                                   |
| New Zealand NZIoC                   | : | On the inventory, or in compliance with the inventory                                                                                                   |
| New Zealand NZIoC                   | : | On the inventory, or in compliance with the inventory                                                                                                   |
| Japan ENCS                          | : | On the inventory, or in compliance with the inventory                                                                                                   |
| Japan ISHL                          | : | On the inventory, or in compliance with the inventory                                                                                                   |
| Korea KECI                          | : | A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. |
| Philippines PICCS                   | : | Not in compliance with the inventory                                                                                                                    |
| China IECSC                         | : | On the inventory, or in compliance with the inventory                                                                                                   |
| Taiwan TW TCSI                      | : | On the inventory, or in compliance with the inventory                                                                                                   |

**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 1  
Fire Hazard: 2  
Reactivity Hazard: 0



**Revision Date** : 2026-08-24

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**Date of last issue** : 2016-06-01

Print Date : 2026-08-26

**Further information**

Legacy SDS Number : 297870

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

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 relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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

|        |                                                          |       |                                                                                      |
|--------|----------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
| ACGIH  | American Conference of Government Industrial Hygienists  | LD50  | Lethal Dose 50%                                                                      |
| AIRC   | Australian Inventory of Industrial Chemicals             | LOAEL | Lowest Observed Adverse Effect Level                                                 |
| DSL    | Canada, Domestic Substances List                         | NFPA  | National Fire Protection Agency                                                      |
| NDSL   | Canada, Non-Domestic Substances List                     | NIOSH | National Institute for Occupational Safety & Health                                  |
| CNS    | Central Nervous System                                   | NTP   | National Toxicology Program                                                          |
| CAS    | Chemical Abstract Service                                | NZIoC | New Zealand Inventory of Chemicals                                                   |
| EC50   | Effective Concentration                                  | NOAEL | No Observable Adverse Effect Level                                                   |
| EC50   | Effective Concentration 50%                              | NOEC  | No Observed Effect Concentration                                                     |
| EGEST  | EOSCA Generic Exposure Scenario Tool                     | OSHA  | Occupational Safety & Health Administration                                          |
| EOSCA  | European Oilfield Specialty Chemicals Association        | PEL   | Permissible Exposure Limit                                                           |
| EINECS | European Inventory of Existing Chemical Substances       | PICCS | Philippines Inventory of Commercial Chemical Substances                              |
| MAK    | Germany Maximum Concentration Values                     | PRNT  | Presumed Not Toxic                                                                   |
| GHS    | Globally Harmonized System                               | RCRA  | Resource Conservation Recovery Act                                                   |
| >=     | Greater Than or Equal To                                 | STEL  | Short-term Exposure Limit                                                            |
| IC50   | Inhibition Concentration 50%                             | SARA  | Superfund Amendments and Reauthorization Act.                                        |
| IARC   | International Agency for Research on Cancer              | TLV   | Threshold Limit Value                                                                |
| IECSC  | Inventory of Existing Chemical Substances in China       | TWA   | Time Weighted Average                                                                |
| ENCS   | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act                                                          |
| KECI   | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=     | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50   | Lethal Concentration 50%                                 | ATE   | Acute toxicity estimate                                                              |

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**Full text of H-Statements referred to under sections 2 and 3.**

H304                      May be fatal if swallowed and enters airways.