Safety Data Sheet
PF SOLVENT - P20301P

Safety Data Sheet dated 24/5/2019, version 1

1. Identification

GHS Product Identifier
   Mixture identification:
   Trade name: PF SOLVENT
   MSDS code: P20301P

Recommended use of the chemical and restrictions on use
   Recommended use:
   Cleaner
   Industrial uses
   Restrictions on use:
   No uses advised against are identified.

Supplier's details
   Company: SOCOMORE S.A.S.
   Zone Industrielle du Prat - CS 23707 - 56037 VANNES CEDEX - France
   Tel : +33 (0)2 97 43 76 83 - Fax : +33 (0)2 97 54 20 26
   Distributor/Manufacturer: Socomore Ireland Ltd. - Meenane, Watergrasshill, Co. Cork, Ireland -
   Tel +353 21 4889922 / Fax +353 21 4889923 / ireland@socomore.com
   Distributor New Zealand: STSNZ Ltd, 3/45 Hapua Street, Remuera, Auckland - New Zealand /
   Emergency Phone No.: +6495299570

Competent person responsible for the safety data sheet:
   techdirsocomore@socomore.com

Emergency phone number
   International : CHEMTEL +1-813-248-0585.

2. Hazard identification

Classification complies with the provisions of the United Nations Globally Harmonized System of
Classification and Labeling of Chemicals (GHS) and is consistent with ERMA New Zealand Approval
number (HSNO) HSR002670.

   Warning, Flam. Liq. 4, Combustible liquid.
   Warning, Skin Irrit. 3, Causes mild skin irritation.
   ☠️ Warning, Skin Sens. 1, May cause an allergic skin reaction.
   ☠️ Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
   Aquatic Acute 2, Toxic to aquatic life.
   ☠️ Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

GHS label elements, including precautionary statements
Hazard pictograms:

Danger
Hazard statements:

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H227 Combustible liquid.
H316 Causes mild skin irritation.
H317 May cause an allergic skin reaction.
H304 May be fatal if swallowed and enters airways.
H411 Toxic 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 dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves and eye/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.
P302+P352 IF ON SKIN: Wash with plenty of water.
P331 Do NOT induce vomiting.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use a CO2 fire extinguisher to extinguish.
P391 Collect spillage.
P403 Store in a well-ventilated place.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:
None

Other hazards which do not result in a classification
No other hazards

3. Composition/information on ingredients

Substances
N.A.
Mixtures
Hazardous components within the meaning of GHS and related classification:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Name</th>
<th>Ident. Number</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;= 90%</td>
<td>HYDROCARBONS, C11-C13, ISOALKANES, &lt;2%</td>
<td>EC: 920-901-0</td>
<td>3.10/1 Asp. Tox. 1 H304</td>
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<tr>
<td></td>
<td>AROMATICS</td>
<td>REACH No.: 01-2119456810</td>
<td>2.6/4 Flam. Liq. 4 H227</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-40</td>
<td></td>
</tr>
<tr>
<td>&gt;= 7% -</td>
<td>ORANGE, SWEET, EXTRACT</td>
<td>CAS: 8028-48-6</td>
<td>2.6/3 Flam. Liq. 3 H226</td>
</tr>
<tr>
<td>&lt; 10%</td>
<td></td>
<td>EC: 232-433-8</td>
<td>3.2/2 Skin Irrit. 2 H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td>REACH No.: 01-2119493353</td>
<td>3.4.2/1 Skin Sens. 1 H317</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-35</td>
<td>3.10/1 Asp. Tox. 1 H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4.1/A1 Aquatic Acute 1 H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4.1/C1 Aquatic Chronic 1 H410</td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of necessary first-aid measures
In case of skin contact:
Immediately take off all contaminated clothing.

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Remove contaminated clothing immediately and dispose off 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.

Most important symptoms/effects, acute and delayed
  Eye contact: Burning feeling and temporary redness.
  Repeated exposure may cause skin dryness or cracking.
  Vapours inhaled in strong concentration have a narcotic effect on the central nervous system.
  Inhalation of vapours or aerosols may be irritating to the respiratory tract and mucous membranes.
  If swallowed, aspiration into the lungs may occur and cause a chemical pneumonia.
  Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea, abdominal pain.

Indication of immediate medical attention and special treatment needed, if necessary
  In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
  Treatment:
    No particular treatment.

5. Fire-fighting measures

Suitable extinguishing media
  In case of fire: Use a CO2 fire extinguisher to extinguish.

Unsuitable extinguishing media:
  None in particular.

Special hazards arising from the chemical
  Do not inhale explosion and combustion gases.
  Burning produces heavy smoke.

Hazardous combustion products:
  None
  Explosive properties: N.A.
  Oxidizing properties: N.A.

Special protective actions for fire-fighters
  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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
  Wear personal protection equipment.
  Remove persons to safety.
  See protective measures under point 7 and 8.

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

Methods and material for containment and cleaning up
  Wash with plenty of water.
7. Handling and storage

Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists. Don't use empty container before they have been cleaned. Before making transfer operations, assure that there aren't any incompatible material residuals in the containers. Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working. See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities
Avoid vapor emissions. 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 unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed. Incompatible materials: See section 10.5 Instructions as regards storage premises: Cool and adequately ventilated.

8. Exposure controls/personal protection

Control parameters
HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS
- OEL Type: National - TWA: 1200 mg/m3, 171 ppm - Notes: vapour, ExxonMobil

DNEL Exposure Limit Values
ORANGE, SWEET, EXTRACT - CAS: 8028-48-6
Worker Professional: 8.89 mg/kg bw/day - Consumer: 4.44 mg/kg bw/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 185.8 µg/cm2 - Consumer: 92.9 µg/cm2 - Exposure: Human Dermal - Frequency: Short Term, local effects
Worker Professional: 31.1 mg/m3 - Consumer: 7.78 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 4.44 mg/kg bw/day - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values
ORANGE, SWEET, EXTRACT - CAS: 8028-48-6
Target: Fresh Water - Value: 5.4 mg/l
Target: Marine water - Value: 0.54 mg/l
Target: PNEC01 - Value: 5.77 mg/l
Target: Freshwater sediments - Value: 1.3 mg/kg
Target: Marine water sediments - Value: 0.13 mg/kg
Target: Soil (agricultural) - Value: 0.261 mg/kg
Target: Microorganisms in sewage treatments - Value: 2.1 mg/l
Target: PNEC02 - Value: 13.3 mg/l

Appropriate engineering controls: None

Individual protection measures, such as personal protective equipment (PPE)
Eye protection:
Safety goggles (EN 166)

Protection for skin:
Chemical protection clothing. (type 3 - EN14605)
Chemical protection clothing. (type 5 - EN13982-1)
Chemical protection clothing. (type 6 - EN13034)
Protection for hands:
Suitable gloves type: NF EN374
NBR (nitrile rubber).
PVA (Polyvinyl alcohol).

Respiratory protection:
Use adequate protective respiratory equipment.
Filtering Half-face mask (EN 149).

Thermal Hazards:
None

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Value</th>
<th>Method:</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and colour:</td>
<td>FLUID LIQUID</td>
<td>--</td>
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<tr>
<td>Odour:</td>
<td>N.A.</td>
<td>--</td>
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<tr>
<td>Odour threshold:</td>
<td>N.A.</td>
<td>--</td>
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<tr>
<td>pH:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
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<tr>
<td>Melting point / freezing point:</td>
<td>Not Relevant</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Initial boiling point and boiling range:</td>
<td>193 °C</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Flash point (°C):</td>
<td>&gt; 60°C</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Solid/gas flammability:</td>
<td>N.A.</td>
<td>-- liquid</td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits:</td>
<td>0.6-7%</td>
<td>--</td>
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</tr>
<tr>
<td>Vapour pressure:</td>
<td>N.A.</td>
<td>--</td>
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<tr>
<td>Vapour density:</td>
<td>N.A.</td>
<td>--</td>
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<tr>
<td>Relative density:</td>
<td>0.765</td>
<td>--</td>
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<tr>
<td>Solubility in water:</td>
<td>INSOLUBLE</td>
<td>--</td>
<td>--</td>
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<tr>
<td>Solubility in oil:</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>N.A.</td>
<td>--</td>
<td>--</td>
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<tr>
<td>Auto-ignition temperature:</td>
<td>&gt;200°C</td>
<td>--</td>
<td>--</td>
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<tr>
<td>Decomposition temperature:</td>
<td>N.A.</td>
<td>--</td>
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<tr>
<td>Viscosity:</td>
<td>v &lt; 7 mm2/s (40°C)</td>
<td>--</td>
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</tr>
</tbody>
</table>
10. Stability Toxicological information

Reactivity
Stable under normal conditions

Chemical stability
Stable under normal conditions

Possibility of hazardous reactions
None

Conditions to avoid
Stable under normal conditions.

Incompatible materials
None in particular.

Hazardous decomposition products
None.

11. Toxicological information

Information on toxicological effects

Toxicological information of the product:
N.A.

Toxicological information of the main substances found in the product:
HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS
a) acute toxicity:
   Test: Genotoxicity - Route: Inhalation Vapour - Species: Rat > 5000 mg/m3 - Duration: 8h
   Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
   Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

ORANGE, SWEET, EXTRACT - CAS: 8028-48-6
a) acute toxicity:
   Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
   Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

i) STOT-repeated exposure:
   Test: LOAEL
   - Species: Mouse = 1000 MGKGBWDAY

If not differently specified, the information listed below must be considered as N.A.:
 a) acute toxicity;
 b) skin corrosion/irritation;
 c) serious eye damage/irritation;
 d) respiratory or skin sensitisation;
 e) germ cell mutagenicity;
 f) carcinogenicity;
 g) reproductive toxicity;
 h) STOT-single exposure;
 i) STOT-repeated exposure;
 j) aspiration hazard.

12. Ecological information

Toxicity
Adopt good working practices, so that the product is not released into the environment.
HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS
a) Aquatic acute toxicity:
   Endpoint: DSEO-R (NOELR) - Species: Algae = 1000 mg/l - Duration h: 72 - Notes:
Pseudokirchneriella subcapitata
   Endpoint: EL0 - Species: Algae = 1000 mg/l - Duration h: 72 - Notes: Pseudokirchneriella
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subcapitata
Endpoint: EL0 - Species: Daphnia = 1000 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: LL0 - Species: Fish = 1000 mg/l - Duration h: 96 - Notes: Onchohynchus mykiss

b) Aquatic chronic toxicity:
Endpoint: DSEO-R (NOELR) - Species: Daphnia = 1 mg/l - Duration h: 504 - Notes:
Daphnia magna

ORANGE, SWEET, EXTRACT - CAS: 8028-48-6

a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Daphnia = 0.67 mg/l - Duration h: 48
Endpoint: LC50 - Species: Fish = 0.7 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae = 150 mg/l - Duration h: 72 - Notes:
GrünalgeDesmodesmusSub

Persistence and degradability
HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS
Biodegradability: Biodegradability rate - Duration: 28 days - %: 31.3

ORANGE, SWEET, EXTRACT - CAS: 8028-48-6
Biodegradability: Biodegradability rate - Test: OECD 301B - Duration: 28 days - %: 72 - 83.4

Bioaccumulative potential
ORANGE, SWEET, EXTRACT - CAS: 8028-48-6
BCF 1.502 - 2.597

Mobility in soil
N.A.

Other adverse effects
No harmful effects expected.

13. Disposal considerations

Disposal methods:
Disposal should be in accordance with applicable regional, national and local laws and regulations. Please consult Technical Data Sheet for details.

14. Transport information

UN number
ADR-UN Number: 3082
IATA-UN Number: 3082
IMDG-UN Number: 3082

UN proper shipping name
ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ORANGE, SWEET, EXTRACT, HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS)
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ORANGE, SWEET, EXTRACT, HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS)
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ORANGE, SWEET, EXTRACT, HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS)

Transport hazard class(es)
ADR-Class: 9

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15. Regulatory information

Safety, health and environmental regulations specific for the product in question.

HSNO Group Standard Approval: HSR002595

16. Other information

This document was prepared by a competent person who has received appropriate training. Classification complies with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and is consistent with ERMA New Zealand Approval number (HSNO) HSR002670.

Full text of phrases referred to in Section 3:
H304 May be fatal if swallowed and enters airways.
H227 Combustible liquid.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

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
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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.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
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).
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.
PNEC: Predicted No Effect Concentration.
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWA: Time-weighted average.
WGK: German Water Hazard Class.