

# Safety Data Sheet

## PF SOLVENT - P20301P

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

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### 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.

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### 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:

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

### 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.

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## 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.

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## 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.

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#### 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.

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#### 8. Exposure controls/personal protection

##### Control parameters

HYDROCARBONS, C11-C13, ISOALKANES, <2% AROMATICS  
- OEL Type: National - TWA: 1200 mg/m<sup>3</sup>, 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/cm<sup>2</sup> - Consumer: 92.9 µg/cm<sup>2</sup> - Exposure: Human Dermal  
- Frequency: Short Term, local effects  
Worker Professional: 31.1 mg/m<sup>3</sup> - Consumer: 7.78 mg/m<sup>3</sup> - 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)

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**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

Properties	Value	Method:	Notes
Appearance and colour:	FLUID LIQUID	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	193 °C	--	--
Flash point (°C):	> 60°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	liquid
Upper/lower flammability or explosive limits:	0.6-7%	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	0.765	--	--
Solubility in water:	INSOLUBLE	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	>200°C	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	v < 7 mm <sup>2</sup> /s (40°C)	--	--

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#### 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/m<sup>3</sup> - 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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ADR - Hazard identification number: 90  
 IATA-Class: 9  
 IATA-Label: 9  
 IMDG-Class: 9

#### Packing group, if applicable

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

#### Environmental hazards

ADR-Environmental Pollutant: Yes  
 IMDG-Marine pollutant: Marine Pollutant  
 Most important toxic component: ORANGE, SWEET, EXTRACT

#### Special precautions for user

ADR-Subsidiary risks: -  
 ADR-S.P.: 274 335 375 601  
 ADR-Transport category (Tunnel restriction code): 3 (E)  
 IATA-Passenger Aircraft: 964  
 IATA-Subsidiary risks: -  
 IATA-Cargo Aircraft: 964  
 IATA-S.P.: A97 A158 A197  
 IATA-ERG: 9L  
 IMDG-EmS: F-A , S-F  
 IMDG-Subsidiary risks: -  
 IMDG-Stowage and handling: Category A  
 IMDG-Segregation: -

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**  
 N.A.

## 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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Insert further consulted bibliography

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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).
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.
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.