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<h2>JEFO TEERVERWIJDERAAR</h2>		<h3>273082</h3>

Jefo Ship supply
De Dissel 12
8332 JH Steenwijk NETHERLANDS
telefoon 0031(0)6-83701219

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

1.1. Product identifier

Trade name : JEFO TEERVERWIJDERAAR
Type of product : Cleaning product.
Product for special applications.
Format : Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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

Directions for use : See product bulletin/label for detailed information.
Sector of use category : SU 22; Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
Chemical product category : PC35: Washing and cleaning products (including solvent based products)
Process category : PROC13: Treatment of articles by dipping and pouring
PROC 19; Manual mixing with intimate contact and only PPE available.

1.3. Details of the supplier of the safety data sheet

Name and function of the responsible person : Jefo Ship Supply
T.a.v. Dhr. J.F. Braad
De Dissel 12
8332 JH Steenwijk
Telefoon: +31(0)6-83701219
E-mail: info@jefoshipsupply.nl

Responsible for placing on the market : See address above.

1.4. Emergency telephone number

: Phone during office hours: 0031(0)6-83701219
(UK) UK National Poisons Emergency number 0870 600 6266

SECTION 2 Hazards identification

2.1. Classification of the substance or mixture

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

- **Health hazards** : Skin irritation - Category 2 - Warning - (CLP : Skin Irrit. 2) - H315
Serious eye damage - Category 1 - Danger - (CLP : Eye Dam. 1) - H318
Skin sensitisation - Category 1 - Warning - (CLP : Skin Sens. 1) - H317
Aspiration hazard - Category 1 - Danger - (CLP : Asp. Tox. 1) - H304
- **Physical hazards** : Flammable liquids - Category 3 - Warning - (CLP : Flam. Liq. 3) - H226
- **Environmental hazards** : Hazardous to the aquatic environment - Chronic hazard - Category 3 - (CLP : Aquatic Chronic 3) - H412

2.2. Label elements

Labelling Regulation EC 1272/2008 (CLP)

- **Hazard pictograms**



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SECTION 2 Hazards identification (Continued)

- **Hazard pictograms** : GHS05 - GHS08 - GHS02
- **Signal words** : Danger
- **Contains** : Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics - Orange Terpenen
- **Hazard statements** : H226 - Flammable liquid and vapour
H318 - Causes serious eye damage
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H412 - Harmful to aquatic life with long lasting effects
- **Supplemental hazard information** : EUH066 - Repeated exposure may cause skin dryness or cracking
- **Precautionary statements**
- General** : P102 - Keep out of reach of children.
- Prevention** : P210 - Keep away from heat, sparks, open flames or hot surfaces. – No smoking.
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof equipment.
P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** : P301+310 - If swallowed, immediately call a doctor.
P331 - Do NOT induce vomiting
P303+P361+P352 - IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Wash with plenty of soap and water.
P333+313 - If skin irritation or rash occurs: Get medical advice/attention
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P363 - Wash contaminated clothing before reuse
- Storage** : P403+235 - Store in a cool and well-ventilated place.
P405 - Store locked up
- Disposal considerations** : P501 - Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

- Note.** : The information given in this chapter is valid for the undiluted product.
- PBT/vPvB evaluation** : No PBT/vPvB substances present in a concentration of 0,1% or higher in this mixture.

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Preparation : Amounts are expressed in % w/w.

Substance / Preparation : Preparation.

Substance name	Value(s)	CAS No	EC No	Index No	REACH	Classification
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics	: Greater than 50 %	----	918-481-9	----	01-2119457273-39	Asp. Tox. 1;H304 EUH066
ORANGE TERPENEN	: Between 20 and 24.9 %	8028-48-6	232-433-8	----	01-2119493353-35	Asp. Tox. 1;H304 Flam. Liq. 3;H226 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411
LAURETH-2	: Between 1 and 4.9 %	68439-50-9	----	----	----	Eye Dam. 1;H318 Aquatic Acute 1;H400

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SECTION 4 First aid measures

4.1. Description of first aid measures

- Inhalation** : Remove victim to fresh air.
- Skin contact** : Rinse immediately with plenty of water.
For even minor contact, immediately remove contaminated clothing/wash skin thoroughly with mild soap / water.
Seek medical attention if irritation develops.
- Eye contact** : In case of eye contact, immediately rinse with clean water for 10-15 minutes.
Remove contact lenses.
Contact ophthalmologist immediately.
- Ingestion** : Seek medical attention immediately.
Administer lukewarm water or milk (ca. 200 ml.).
If swallowed, rinse mouth with water (only if the person is conscious).
Do not induce vomiting to inhalation through the respiratory tract to prevent.

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

- General Information.** : In case of doubt or if symptoms persist, always call a doctor.

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

- General Information.** : Seek medical attention if ill effect or irritation develops.
See: <http://www.cdc.gov/NIOSH/ipcs/icstart.html>

SECTION 5 Firefighting measures

5.1. Extinguishing media

- Extinguishing media**
- Suitable extinguishing media** : Carbon dioxide.
Foam.
Water fog.
Dry chemical.
- Surrounding fires** : All known extinguishants can be used.
Use water spray to cool exposed surfaces.

5.2. Special hazards arising from the substance or mixture

- Specific hazards** : Under fire conditions, hazardous fumes will be present.
- Hazardous combustion products** : Incomplete combustion may form carbon monoxide.

5.3. Advice for firefighters

- Flammable class** : This product is flammable.
- Special protective equipment for fire fighters** : Use self-contained breathing apparatus and chemically protective clothing.
- Special procedures** : Avoid (reject) fire-fighting water to enter environment.

SECTION 6 Accidental release measures

- General information** : Material spilled on hard surface can present a serious slipping/falling hazard.

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions** : Wear suitable protective clothing and gloves.
Ensure adequate air ventilation.
Equip cleanup crew with proper protection.

6.2. Environmental precautions

- Environmental precautions** : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.
Prevent entry to sewers and public waters.

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SECTION 6 Accidental release measures (Continued)

6.3. Methods and material for containment and cleaning up

Clean up methods : Clean up any spills as soon as possible, using an absorbent material to collect it.
Impound and recover large spill by mixing it with inert granular solids.
Dilute residues and flush.

6.4. Reference to other sections

: SECTION 8

SECTION 7 Handling and storage

7.1. Precautions for safe handling

General, : Keep away from food, drink and animal feeding stuffs.
When using do not eat or drink.

Personal protection : Wear suitable protective clothing, gloves and eye/face protection.

Handling : Avoid contact of the undiluted product with the skin and eyes kleding. Wear no cloths soaked with this product, or on clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place.
Keep from freezing.

Storage life : Material is stable at least for 12 months.

7.3. Specific end use(s)

decontamination Procedures : Wash hands after use with soap and water.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics : TWA [mg/m³] MAK : 116
Orange Terpenen : DNEL's (Worker, Dermal, Acute, Local) : ug/cm² 185.8
Orange Terpenen : DNEL's (Worker, Dermal, Chronical, Systemic) : mg/kg bw/day 8.89
Orange Terpenen : DNEL's (Worker, Inhalation, Acute, Systemisch) : mg/m³ 31.1

8.2. Exposure controls

Personal protection : Avoid all unnecessary exposure.

-Respiratory protection : No special protection required where adequate ventilation is maintained.

- Skin protection : Wear nitril gloves.

- Eye protection : Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product.

General hygiene : When using, do not eat, drink or smoke.
Avoid contact of the undiluted product with the skin, the eyes and clothing.
Wash hands after use with soap and water.

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SECTION 9 Physical and chemical properties

Physical state at 20 °C	: Liquid
Colour	: Colourless
Odo(u)r	: No information available
Odour Treshold	: No data available.
pH-value	: Not applicable
Melting-/Freezing Point	: No data available.
Boiling point [°C]	: No data available.
Flash point [°C]	: 45°C
Evaporation rate	: No data available.
Flammability (solid, gas)	: No data available.
Vapour pressure, 20°C	: No data available.
Relative Density (20 °C, g/cm ³)	: 0,800 g/cm ³
Solubility in water	: Insoluble.
Log P octanol / water at 20°C	: No data available.
Auto-ignition temperature [°C]	: No data available.
Decomposition temperature (°C)	: No data available.
Viscosity at 25°C [mPa.s]	: < 20 mPa.s
Explosive Properties	: No data available.
Explosion limits - lower [%]	: No data available.
Explosion limits - upper [%]	: No data available.
Oxidising properties	: No data available.

SECTION 10 Stability and reactivity

10.1. Reactivity

Reactivity : None under normal conditions.

10.2. Chemical stability

Chemical stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : None under normal conditions.

10.4. Conditions to avoid

Conditions to avoid : Extremely high or low temperatures.
Keep away from sources of ignition - No smoking.
Provide good ventilation in process area to prevent formation of vapour.

10.5. Incompatible materials

Materials to avoid : Strong oxidizers.

10.6. Hazardous decomposition products

Dangerous products of decomposition. : Incomplete combustion may form carbon monoxide.



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SECTION 11 Toxicological information

11.1. Information on toxicological effects

- Toxicity information** : With the product as such no toxicological tests have been done. According to the criteria of (EC) 1272/2008 this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.
- Inhalation** : Information on raw materials.
Orange terpenen cas.nr. 8028-48-6
Aromatische Koolwaterstof, cas.nr. 64742-48-9
- Dermal** : Inhalation of fumes or vapours may cause respiratory irritation.
: Irritating to skin.
Orange Terpenen: LD50: (Konijn, dermaal): > 2000 mg/kg
Aromatische Koolwaterstof: LD50: (Konijn, dermaal): > 2000 mg/kg
- Ocular** : Risk of damage to eyes.
- Ingestion** : Swallowing a small quantity of this material will result in serious health hazard.
Orange Terpenen: LD50; (Rat, oraal): > 5700 mg/kg
Aromatische Koolwaterstof: LD50 (Rat, oraal): > 2000 mg/kg
- Sensitization** : No data available.

SECTION 12 Ecological information

12.1. Toxicity

- Ecotoxicity** : Information on ingredients.
Orange terpenen cas.nr. 8028-48-6
LC50: (Daphnia Magna): 34.1 mg/l
Aromatische Koolwaterstof, cas.nr. 64742-48-9
LC50: (Vis, 96u): > 100 mg/l

12.2. Persistence and degradability

- : The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
- With the product as such no ecological tests have been done. According to the criteria of (EC) 1272/2008 this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.

12.3. Bioaccumulative potential

- : No data available.

12.4. Mobility in soil

- : No data available.

12.5. Results of PBT and vPvB assessment


- : No PBT/vPvB substances present in a concentration of 0,1% or higher in this mixture.

12.6. Other adverse effects

- : No data available.

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SECTION 13 Disposal considerations

13.1. Waste treatment methods

- General** : Dispose in a safe manner in accordance with local/national regulations.
- Packing** : Dispose of this material and its container at hazardous or special waste collection point.
- Product** : ERC8a; Wide dispersive indoor use of processing aids in open systems
ERC8d; Widespread use (outside) of processing aids in open systems.
- Release** : Avoid release to the environment.
Wastewater can be discharged by public wastewater sewer.
Comply with local regulations for disposal.
- Disposal method** : Preferably recycling instead of landfill or incineration.
- Industrial waste number** : XXXXX - European Waste Code. This code is assigned based upon the most common uses and may not be representative of the contaminants resulting from actual use of the product. The producer of the waste must assess the actual process and the appropriate waste code. See Decision 2001/118/EC

SECTION 14 Transport information

General information : ADR 2015

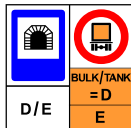
14.1. UN number

UN nr. : 1993

14.2. UN proper shipping name

ADR/ADN/RID designation. : UN1993 BRANDBARE VLOEISTOF, N.E.G. (Koolwaterstoffen, C10-C13, n-alkanen, isoalkanen, cyclische verbindingen, <2% aromatische verbindingen, Orange Terpenen), 3, III, (D/E)

Tunnel restriction code (TRC)



: D/E : Passage forbidden through tunnels of category D when carried in bulk or in tanks. Passage forbidden through tunnels of category E.

-Limited Quantity

: 5 L
Combination packagings - Inner packaging : Maximum : 5 l.
Combination packagings - Package : Maximum 30 kg :
Inner packagings placed in shrink-wrapped or stretch-wrapped trays - Inner packaging Maximum contents :
Inner packagings placed in shrink-wrapped or stretch-wrapped trays - Package Maximum 20 kg :

Sea transport

Air transport

- ICAO/IATA

: Packaging instructions cargo : 366
Packaging instructions passenger: 355

14.3. Transport hazard class(es)

: E
3

- Labelling ADR/ADN/RID



: 3: Flammable liquids

- IMO-IMDG code

: Class 3

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SECTION 14 Transport information (Continued)

- IATA - Class or division : 3

14.4. Packing group

Packing group : III

IMO Packing group : III

IATA Packing group : III

14.5. Environmental hazards

: This product contains hazardous components for the environment.

- IMDG-Marine pollution : Yes.

14.6. Special precautions for user

: Stop the engine.
No open flames. No smoking.
Mark roads and warns other road users.
Keep public away from danger area.
NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

- EMS-Nr : F-E S-E

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable

SECTION 15 Regulatory information

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

Safety. : Ensure all national/local regulations are observed.

Ministry's list of carcinogens : None of the ingredients is listed.

SZW list of mutagens : None of the ingredients is listed.

NON-exhaustive list of reproductive toxins - Fertility : None of the ingredients is listed.

NON-exhaustive list of reproductive toxins - Development : None of the ingredients is listed.

NON-exhaustive list of reproductive toxins - Breastfeeding : None of the ingredients is listed.

Water Discharge Policy (ABM) : Harmful to aquatic life with long lasting effects

Regulation (CE) No.648/2004 of 31 March 2004 on detergents. Annex VII.

Contains : > 30% : - Aliphatic hydrocarbons

15.2. Chemical safety assessment

: No data available.

SECTION 16 Other information

Sources of key data used : This data sheet was prepared in accordance with Regulation (EU) no. 453/2010 and CLP Regulation 1272/2008.

List of relevant H phrases (Section 3) : EUH066 - Repeated exposure may cause skin dryness or cracking
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

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SECTION 16 Other information (Continued)

Revision	: Major changes in the text compared to former version are indicated with *.
Print date	: 10 / 12 / 2015
Recommended uses and restrictions	: See product label for detailed information.
Abreviations	: ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieure ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route CAS: Chemicals Abstracts Service DNEL: Derived No Effect Level IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals LC50: Lethal Concentration (50%) LD50: Lethal Dose (50%) MAC: Maximaal Aanvaarde Concentratie OEL: Occupational Exposure Limit. PC: Product Category. PNEL: Predicted No Effect Level ppm: parts per million. PROC: Process Category REACH: Registration, Evaluation en Autorisation of Chemicals. SU: Sector of Use. STEL: Short Term Exposure Limit. TLV: Treshold Limit Value.
DISCLAIMER OF LIABILITY	: The data given here is based on current knowledge and experience. The purpose of this Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

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