SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
Product name: Solitine

1.2. Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses
Main use category: Professional use
Use of the substance/mixture: disinfectants
Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Supplier: Kerr Italia S.r.l.
Via Passanti, 332
84018 Scafati (SA) - Italy
T +39-081-850-8311
E-mail: safety@kerrhawe.com

Manufacturer: Kerr Italia S.r.l.
Via Passanti, 332
84018 Scafati (SA) - Italy
T +39-081-850-8311
E-mail: safety@kerrhawe.com

Contact person: safety@kerrhawe.com - tel. 00-800-41-050-505 (08.00-17.00)

1.4. Emergency telephone number
Emergency number: CHEMTREC® Emergency Call Center. Emergency Telephone Number (for USA only) 001-800-424-9300 International and Maritime Telephone Number +1 (703) 527-3867

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flam. Liq. 3 H226
Eye Dam. 1 H318
Skin Sens. 1 H317
Asp. Tox. 1 H304
Aquatic Chronic 4 H413

Full text of hazard classes and H-statements: see section 16

2.2. Label elements
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP): 

Signal word (CLP): Danger

Hazardous ingredients: Hydrocarbons, C10-C12, isoalkanes, &lt;2% aromatics; 2,6-Dimethyl-2,6-octadien-8-ol

Hazard statements (CLP): H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage  
H413 - May cause long lasting harmful effects to aquatic life

Precautionary statements (CLP):  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P403+P235 - Store in a well-ventilated place. Keep cool  
P280 - Wear protective gloves  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor, a POISON CENTER  
P301+P310+P331 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. Do NOT induce vomiting  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, C10-C12, isoalkanes, &lt;2% aromatics</td>
<td>(EC no) 923-037-2, (REACH no) 01-2119471991-29</td>
<td>&gt; 90</td>
<td>Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic-4, H413</td>
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<tr>
<td>2,6-Dimethyl-2,6-octadien-8-ol</td>
<td>(CAS No) 106-24-1, (EC no) 203-377-1, (REACH no) 01-2119552430-49</td>
<td>&gt;=1 - &lt;5</td>
<td>Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general : Move to fresh air. In all cases of doubt, or when symptoms persist, seek medical attention. If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Get immediate medical advice/attention. Drink plenty of water.

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

Symptoms/injuries after skin contact : May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes serious eye damage.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

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

No specific measures identified.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam, carbon dioxide (CO2) and powder.

Unsuitable extinguishing media : Do not use a heavy water stream.
5.2. Special hazards arising from the substance or mixture

Fire hazard: Flammable liquid and vapour.

5.3. Advice for firefighters

Firefighting instructions: Use water spray or fog for cooling exposed containers.
Protection during firefighting: Do not enter fire area without proper personal protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Remove ignition sources. No open flames. No smoking. Use special care to avoid static electric charges. Do not eat, drink or smoke in areas where product is used. Avoid contact with skin and eyes.

For non-emergency personnel
No additional information available

For emergency responders
No additional information available

6.2. Environmental precautions

Discharging into rivers and drains is forbidden.

6.3. Methods and material for containment and cleaning up

For containment: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Methods for cleaning up: Large spills: scoop solid spill into closing containers. Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original container. Keep container tightly closed. Store in a dry place. Store in a well-ventilated place. Keep cool.
Incompatible materials: Oxidizing substances.
Storage temperature: 18 - 24 °C

7.3. Specific end use(s)

Consult the supplier for further information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
Personal protective equipment: Gloves. Safety glasses.
Hand protection: Wear suitable gloves. Nitrile rubber gloves. Layer thickness: 0.09mm. Breakthrough time: >480 min. STANDARD EN 374

Eye protection: Safety glasses. STANDARD EN 166

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. STANDARD EN 149

Other information: Do not eat, drink or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight, Oily</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>3.1</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>155 - 175 °C</td>
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<tr>
<td>Flash point</td>
<td>43 °C (ASTM D-93) TCC</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>29 mm Hg</td>
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<td>Relative vapour density at 20 °C</td>
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</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
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<tr>
<td>Density</td>
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<td>Solubility</td>
<td>Material insoluble in water</td>
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<tr>
<td>Viscosity, kinematic</td>
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<td>Viscosity, dynamic</td>
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<tr>
<td>Explosive properties</td>
<td>No data available</td>
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<tr>
<td>Oxidising properties</td>
<td>No data available</td>
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<tr>
<td>Explosive limits</td>
<td>&lt; 1 - 7.5 vol %</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
Oxidizing agent.

10.6. Hazardous decomposition products
No decomposition if stored normally.
SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

**2,6-Dimethyl-2,6-octadien-8-ol (106-24-1)**

LD50 oral rat
3600 mg/kg

LD50 dermal rabbit
> 5000 mg/kg

Skin corrosion/irritation

Not classified

Repeated exposure may cause skin dryness or cracking

Serious eye damage/irritation

Not classified

Causes serious eye damage.

Respiratory or skin sensitisation

Not classified

May cause an allergic skin reaction.

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Germ cell mutagenicity

Not classified

Carcinogenicity

Not classified

Reproductive toxicity

Not classified

Specific target organ toxicity (single exposure)

Not classified

Specific target organ toxicity (repeated exposure)

Not classified

Exposure to organic solvent vapours above the indicated exposure limits may result in adverse health effects such as headache, nausea, dizziness

Aspiration hazard

Not classified

May be fatal if swallowed and enters airways.

Solitine
Viscosity, kinematic
0.9 mm²/s

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general

May cause long lasting harmful effects to aquatic life.

**2,6-Dimethyl-2,6-octadien-8-ol (106-24-1)**

LC50 fish 1
9.18 - 19.9 mg/l (96 hours - Brachydanio rerio, zebra-fish)

12.2. Persistence and degradability

Solitine
Persistence and degradability
No data available.

**2,6-Dimethyl-2,6-octadien-8-ol (106-24-1)**

Biodegradation
73 % (14 days, method: OECD 301D)

12.3. Bioaccumulative potential

Solitine
Bioaccumulative potential
No data.

**2,6-Dimethyl-2,6-octadien-8-ol (106-24-1)**

Bioconcentration factor (BCF REACH)
93.33

Log Pow
3.47

12.4. Mobility in soil

Solitine
Ecology - soil
Material insoluble in water.

12.5. Results of PBT and vPvB assessment

Solitine
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects
None to our knowledge.

Additional information
No other effects known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Regional legislation (waste)
Dispose as hazardous waste.

Waste treatment methods
Recover the product with absorbent material. Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Waste disposal recommendations
Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to an authorised waste collection point.
Ecology - waste materials: Avoid release to the environment.
European List of Waste (LoW) code: 18 01 06* - chemicals consisting of or containing dangerous substances

SECTION 14: TRANSPORT INFORMATION

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR): 3295
UN-No. (IMDG): 3295
UN-No. (IATA): 3295
UN-No. (RID): 3295

14.2. UN proper shipping name
Proper Shipping Name (ADR): HYDROCARBONS, LIQUID, N.O.S.
Proper Shipping Name (IMDG): HYDROCARBONS, LIQUID, N.O.S.
Proper Shipping Name (IATA): Hydrocarbons, liquid, n.o.s.
Proper Shipping Name (RID): HYDROCARBONS, LIQUID, N.O.S.

Transport document description (ADR): UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III, (D/E)
Transport document description (IMDG): UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR): 3
Danger labels (ADR): 3

IMDG
Transport hazard class(es) (IMDG): 3
Danger labels (IMDG): 3

IATA
Transport hazard class(es) (IATA): 3
Hazard labels (IATA): 3

RID
Transport hazard class(es) (RID): 3
Danger labels (RID): 3

14.4. Packing group
Packing group (ADR): III
Packing group (IMDG): III
Packing group (IATA) : III
Packing group (RID) : III

### 14.5. Environmental hazards

- Dangerous for the environment : No
- Marine pollutant : No
- Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

- Classification code (ADR) : F1
- Limited quantities (ADR) : 5I
- Excepted quantities (ADR) : E1
- Packing instructions (ADR) : P001, IBC03, LP01, R001
- Mixed packing provisions (ADR) : MP19
- Portable tank and bulk container instructions (ADR) : T4
- Portable tank and bulk container special provisions (ADR) : TP1, TP29
- Tank code (ADR) : LGBF
- Vehicle for tank carriage : FL
- Transport category (ADR) : 3
- Special provisions for carriage - Packages (ADR) : V12
- Special provisions for carriage - Operation (ADR) : S2
- Hazard identification number (Kemler No.) : 30
- Orange plates : 30
- Tunnel restriction code (ADR) : D/E
- EAC code : 3YE

#### - Transport by sea

- Special provisions (IMDG) : 223
- Limited quantities (IMDG) : 5 L
- Excepted quantities (IMDG) : E1
- Packing instructions (IMDG) : P001, LP01
- IBC packing instructions (IMDG) : IBC03
- Tank instructions (IMDG) : T4
- Tank special provisions (IMDG) : TP1, TP29
- EmS-No. (Fire) : F-E
- EmS-No. (Spillage) : S-D
- Stowage category (IMDG) : A
- Properties and observations (IMDG) : Immiscible with water.

#### - Air transport

- PCA Excepted quantities (IATA) : E1
- PCA Limited quantities (IATA) : Y344
- PCA limited quantity max net quantity (IATA) : 10L
- PCA packing instructions (IATA) : 355
- PCA max net quantity (IATA) : 60L
- CAO packing instructions (IATA) : 366
- CAO max net quantity (IATA) : 220L
- Special provisions (IATA) : A3, A224
- ERG code (IATA) : 3L

#### - Rail transport

No data available
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

EU-Regulations

Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

National regulations


15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: OTHER INFORMATION

Indication of changes:

Regulatory information.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>Hazard statements (CLP)</td>
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<td>2.2</td>
<td>Hazard symbols</td>
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<td>3</td>
<td>Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]</td>
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</table>


Date of issue: 29/09/2014
Revision date: 02/02/2016
Supersedes: 29/09/2014
Version: 2.0
Signature: A. Åseba Murel

Full text of H- and EUH-statements:

Aquatic Chronic 4 Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1 Aspiration hazard, Category 1
Eye Dam. 1 Serious eye damage/eye irritation, Category 1
Flam. Liqu. 3 Flammable liquids, Category 3
Skin Irrit. 2 Skin corrosion/irritation, Category 2
Skin Sens. 1 Sensitisation — Skin, Category 1
STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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
H335 May cause respiratory irritation
H413 May cause long lasting harmful effects to aquatic life

The information in this safety data sheet is based on information from the manufacturer/supplier, present European and national legislation, and presupposes that the product is used within the specified area of application.