## SAFETY DATA SHEET

## SURFACE ACTIVATOR

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

### 1.1. Product identifier

## Product name

Registration number REACH
Product type REACH
: SURFACE ACTIVATOR
: Not applicable (mixture)
: Mixture

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

### 1.2.1 Relevant identified uses

Detergent according to Regulation (EC) No 648/2004

### 1.2.2 Uses advised against

No uses advised against known

### 1.3. Details of the supplier of the safety data sheet

## Supplier of the safety data sheet

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
표 3214424231

- +32 14426514
msds@soudal.com


## Manufacturer of the product

SOUDAL N.V.
Everdongenlaan 18-20
B-2300 Turnhout
『 +3214424231
■ +32 14426514
msds@soudal.com

### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch): +32 14584545 (BIG)

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

| Class | Category | Hazard statements |
| :--- | :--- | :--- |
| Flam. Liq. | category 2 | H225: Highly flammable liquid and vapour. |
| Eye Irrit. | category 2 | H319: Causes serious eye irritation. |
| STOT SE | category 3 | H336: May cause drowsiness or dizziness. |

### 2.2. Label elements



Signal word
H-statements
H225
H319
H336
P-statements
P101
P102
P210
P280
P304 + P340

P303 +P361 +P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Danger

Highly flammable liquid and vapour. Causes serious eye irritation.
M ay cause drowsiness or dizziness.
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Wear protective gloves and eye protection/face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

[^0]P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

### 2.3. Other hazards

M ay build up electrostatic charges: risk of ignition
Gas/vapour spreads at floor level: ignition hazard

## SECTION 3: Composition/information on ingredients

### 3.1. Substances <br> Not applicable

### 3.2. Mixtures

| Name <br> REACH Registration No | CAS No EC No | Conc. (C) | Classification according to CLP | Note | Remark |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|l} \text { propan-2-ol } \\ \text { 01-2119457558-25 } \end{array}$ | $\begin{aligned} & 67-63-0 \\ & 200-661-7 \end{aligned}$ | C>25 \% | Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(2)(10) | Constituent |
| titanium tetraisopropanolate 01-2119967389-17 | $\begin{aligned} & 546-68-9 \\ & 208-909-6 \end{aligned}$ | 1\%<<<20\% | Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H336 | (1)(10) | Constituent |

(1) For H -statements in full: see heading 16
(2) Substance with a Community workplace exposure limit
(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/ aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink. After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
After skin contact:
Rinse with water. Soap may be used. Take victim to a doctor if irritation persists.
After eye contact:
Rinse immediately with plenty of water. Do not apply neutralizing agents. Apply a moist gauze patch.

## After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Give activated charcoal. Consult a doctor/medical service if you feel unwell.

### 4.2. Most important symptoms and effects, both acute and delayed <br> 4.2.1 Acute symptoms <br> After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Irritation of the respiratory tract. Dry/sore throat. Central nervous system depression. Dizziness. Headache.
After skin contact:
Not irritating.
After eye contact:
Irritation of the eye tissue.

## After ingestion:

AFTER INGESTION OF HIGH QUANTITIES: Central nervous system depression. Disturbed motor response. Headache. Disturbances of consciousness. Dilation of the blood vessels. Low arterial pressure. Vomiting. Nausea. Abdominal pain. FOLLOWING SYM PTOM SM AY APPEAR LATER: Body temperature fall.
Slowing respiration.
4.2.2 Delayed symptoms

No effects known.
4.3. Indication of any immediate medical attention and special treatment needed If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

### 5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. Alcohol-resistant foam. BC powder. Carbon dioxide.
5.1.2 Unsuitable extinguishing media:

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Solid water jet ineffective as extinguishing medium.

### 5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

### 5.3. Advice for firefighters <br> \subsection*{5.3.1 Instructions:}

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat.
5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.
6.1.1 Protective equipment for non-emergency personnel See heading 8.2
6.1.2 Protective equipment for emergency responders

Gloves. Protective goggles. Protective clothing.
Suitable protective clothing
See heading 8.2

### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Try to reduce evaporation. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

### 6.3. Methods and material for containment and cleaning up

Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

### 6.4. Reference to other sections <br> See heading 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Gas/vapour heavier than air at $20^{\circ} \mathrm{C}$. Observe normal hygiene standards. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

### 7.2. Conditions for safe storage, including any incompatibilities

### 7.2.1 Safe storage requirements:

Store in a cool area. Store in a dry area. Ventilation at floor level. Fireproof storeroom. Provide for an automatic sprinkler system. May be stored under nitrogen. Store at room temperature. M eet the legal requirements. Max. storage time: 1 year(s).

### 7.2.2 Keep away from:

Heat sources, ignition sources, oxidizing agents, (strong) acids, (strong) bases, halogens.
7.2.3 Suitable packaging material:

Tin.
7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters
8.1.1 Occupational exposure
a) Occupational exposure limit values
If limit values are applicable and available these will be listed below.

| Belgium | Alcool isopropylique Time-weighted average exposure limit 8 h <br>  Time-weighted average exposure limit 8 h <br>  Short time value <br>  Short time value | 200 ppm |
| :--- | :--- | :--- |

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propan-2-ol

| Compartments | Value | Remark |  |  |
| :--- | :--- | :--- | :---: | :---: |
| Fresh water | $140.9 \mathrm{mg} / \mathrm{l}$ |  |  |  |
| Marine water | $140.9 \mathrm{mg} / \mathrm{l}$ |  |  |  |
| STP | $2251 \mathrm{mg} / \mathrm{l}$ |  |  |  |
| Fresh water sediment | $552 \mathrm{mg} / \mathrm{kg}$ sediment dw |  |  |  |
| Marine water sediment | $552 \mathrm{mg} / \mathrm{kg}$ sediment dw |  |  |  |
| Soil | $28 \mathrm{mg} / \mathrm{kg}$ soil dw |  |  |  |
| Oral | $160 \mathrm{mg} / \mathrm{kg}$ food |  |  |  |
| titanium tetraisopropanolate |  |  |  |  |
| Compartments | Value |  |  |  |
| Fresh water | $0.59 \mathrm{mg} / \mathrm{l}$ |  |  |  |
| Salt water | $0.059 \mathrm{mg} / \mathrm{l}$ |  |  |  |
| Aqua (intermittent releases) | $5.9 \mathrm{mg} / \mathrm{l}$ |  |  |  |
| STP | $105 \mathrm{mg} / \mathrm{l}$ |  |  |  |
| Fresh water sediment | $0.482 \mathrm{mg} / \mathrm{kg}$ sediment |  |  |  |
| M arine water sediment | $0.0482 \mathrm{mg} / \mathrm{kg}$ sediment dw |  |  |  |
| Soil | $0.112 \mathrm{mg} / \mathrm{kg}$ soil dw |  |  |  |

### 8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/sparks away. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

### 8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.
a) Respiratory protection:

Wear gas mask with filter type A if conc. in air >exposure limit.
b) Hand protection:

Gloves.

- materials (good resistance)

Butyl rubber, nitrile rubber, viton, neoprene, chloroprene rubber, chlorosulfonated polyethylene, tetrafluoroethylene.

- materials (less resistance)

Chlorinated polyethylene, PVC, neoprene/ natural rubber.

- materials (poor resistance)

Natural rubber, polyethylene, PVA.
c) Eye protection:

Protective goggles.
d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties



## SURFACE ACTIVATOR

| Relative density | 0.8 |
| :--- | :--- |
| Decomposition temperature | No data available |
| Auto-ignition temperature | No data available |
| Explosive properties | No chemical group associated with explosive properties |
| Oxidising properties | No chemical group associated with oxidising properties |
| pH | No data available | | Absolute density | $800 \mathrm{~kg} / \mathrm{m}^{3}$ |
| :--- | :--- |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

M ay build up electrostatic charges: risk of ignition. M ay be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Violent to explosive reaction with (strong) oxidizers. Reacts exothermically with (some) metals. Prolonged storage/in large quantities: may form peroxides.

### 10.4. Conditions to avoid

Keep away from naked flames/ heat. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Insufficient ventilation: take precautions against electrostatic charges. Insufficient ventilation: keep naked flames/ sparks away.

### 10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases, halogens.

### 10.6. Hazardous decomposition products

Upon combustion: CO and CO2 are formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects 11.1.1 Test results

## Acute toxicity

SURFACE ACTIVATOR
No (test)data on the mixture available

| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Oral | D50 | $\begin{aligned} & \text { Equivalent to OECD } \\ & 401 \end{aligned}$ | 5840 mg/kg bw |  | Rat | Experimental value |  |
| Dermal | LD50 | $\begin{aligned} & \text { Equivalent to OECD } \\ & 402 \end{aligned}$ | $13120 \mathrm{mg} / \mathrm{kg}$ bw | 24 h | Rabbit | Experimental value |  |
| Inhalation (vapours) | C50 | $\begin{aligned} & \text { Equivalent to OECD } \\ & 403 \end{aligned}$ | >10000 ppm | 6 h | Rat (male/female) | Experimental value |  |
| titanium tetraisopropanolate |  |  |  |  |  |  |  |
| Route of exposure | Parameter | Method | Value | Exposure time | Species | Value determination | Remark |
| Oral | LD50 | $\begin{aligned} & \text { Equivalent to OECD } \\ & 401 \end{aligned}$ | $7500 \mathrm{mg} / \mathrm{kg} \mathrm{bw}$ |  | Rat (male) | Weight of evidence |  |
| Dermal | LD50 |  | $12870 \mathrm{mg} / \mathrm{kg}$ bw |  | Rabbit | Read-across |  |
| Inhalation (aerosol) | LC50 |  | $7780 \mathrm{mg} / \mathrm{m}^{3}$ air | 4 h | Rat (male) | Weight of evidence |  |

Judgement is based on the relevant ingredients

## Conclusion

Not classified for acute toxicity

## Corrosion/irritation

SURFACE ACTIVATOR
No (test)data on the mixture available
propan-2-ol

| Route of exposure | Result | Method | Exposure time | Time point | Species | Value <br> determination | Remark |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Eye | Irritating | Equivalent to <br> OECD 405 |  | 24 hours | Rabbit | Experimental value | Single treatment |
| Skin | Not irritating |  | 4 h | $4 ; 24 ; 48 ; 72$ hours | Rabbit | Experimental value |  |

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| Route of exposure | Result | Method | Expo | Time point | Species | Value determination | Remark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Eye | M oderately irritating | $\begin{aligned} & \text { Equivalent to } \\ & \text { OECD } 405 \end{aligned}$ |  | 24; 48; 72 hours | Rabbit | Experimental value | Single treatment |
| Skin | Not irritating | Equivalent to OECD 404 | 24 h | 24; 72 hours | Rabbit | Weight of evidence |  |

Classification is based on the relevant ingredients

## Conclusion

Causes serious eye irritation.
Not classified as irritating to the skin

## Respiratory or skin sensitisation

SURFACE ACTIVATOR
No (test)data on the mixture available
propan-2-ol

| Route of exposure | Result | Method | Exposure time | Observation time point | Species | Value determination\| | Remark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Skin | Not sensitizing | OECD 406 |  | 24; 48 hours | Guinea pig (male/female) | Experimental value |  |

titanium tetraisopropanolate

| Route of exposure | Result | Method | Exposure time | Observation time <br> point | Species | Value determination | Remark |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Skin | Not sensitizing | OECD 429 |  |  | M ouse (female) | Experimental value |  |

Judgement is based on the relevant ingredients

## Conclusion

Not classified as sensitizing for skin
Not classified as sensitizing for inhalation

## Specific target organ toxicity

SURFACE ACTIVATOR
No (test)data on the mixture available
propan-2-ol

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value <br> determination |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Oral |  |  |  |  |  |  | Data waiving |  |
| Dermal |  |  |  |  |  | Data waiving |  |  |
| Inhalation <br> (vapours) | NOAEC | OECD 451 | 5000 ppm |  | No effect | 104 weeks (6h/day, 5 <br> days/week) | Rat <br> (male/female) | Experimental <br> value |

titanium tetraisopropanolate

| Route of exposure | Parameter | Method | Value | Organ | Effect | Exposure time | Species | Value determination |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Oral | NOAEL |  | $\begin{aligned} & 2200 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{day} \end{aligned}$ |  | No effect | 2 weeks (5 days/week) | Rat (male) | Inconclusive, insufficient data |
| Inhalation (vapours) | Dose level | EPA TSCA consent order | 5000 ppm | Central nervous system | Central nervous system depression | 6 h | Rat (male/female) | Read-across |
| Inhalation (vapours) | NOAEC | $\begin{aligned} & \text { Equivalent to } \\ & \text { OECD } 413 \end{aligned}$ | 5000 ppm |  | No effect | 13 weeks (6h/day, 5 days/week) | $\begin{array}{\|l} \hline \text { Rat } \\ \text { (male/female) } \end{array}$ | Read-across |
| Inhalation (vapours) | NOAEC | $\begin{aligned} & \text { Equivalent to } \\ & \text { OECD } 413 \end{aligned}$ | 5000 ppm |  | No effect | 13 weeks (6h/day, 5 days/week) | $\begin{aligned} & \text { Mouse } \\ & \text { (male/female) } \end{aligned}$ | Read-across |

Classification is based on the relevant ingredients

## Conclusion <br> M ay cause drowsiness or dizziness.

## Mutagenicity (in vitro)

SURFACE ACTIVATOR
No (test)data on the mixture available
propan-2-o

| Result | Method | Test substrate | Effect | Value determination |
| :--- | :--- | :--- | :--- | :--- |
| Negative with metabolic <br> activation, negative without <br> metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) | No effect | Experimental value |
| Negative with metabolic <br> activation, negative without <br> metabolic activation | Equivalent to OECD 476 | Chinese hamster ovary (CHO) | No effect | Experimental value |

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| titanium tetraisopropanolate |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Result | Method | Test substrate | Effect | Value determination |
| Negative with metabolic activation, negative without metabolic activation | Equivalent to OECD 471 | Bacteria (S.typhimurium) |  | Weight of evidence |

## Mutagenicity (in vivo)



Judgement is based on the relevant ingredients

## Conclusion

Not classified for carcinogenicity

## Reproductive toxicity

SURFACE ACTIVATOR
No (test)data on the mixture available


Judgement is based on the relevant ingredients

## Conclusion

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Not classified for reprotoxic or developmental toxicity

## Toxicity other effects

SURFACE ACTIVATOR
No (test)data on the mixture available

## Chronic effects from short and long-term exposure

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ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Dry skin. Itching. Skin rash/inflammation. Impaired memory. Cracking of the skin.

## SECTION 12: Ecological information

### 12.1. Toxicity

| No (test)data on the mixture available propan-2-ol |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Parameter | Method | Value | Duration | Species | Test design | Fresh/ salt water | Value determination |
| Acute toxicity fishes | LC50 | Equivalent to OECD 203 | $\begin{aligned} & 9640 \mathrm{mg} / \mathrm{l}- \\ & 10000 \mathrm{mg} / \mathrm{l} \end{aligned}$ | 96 h | Pimephales promelas | Flow-through system | Fresh water | Experimental value; Lethal |
| Acute toxicity crustacea | LC50 | Equivalent to OECD 202 | $>10000 \mathrm{mg} / \mathrm{l}$ | 24 h | Daphnia magna | Static system | Fresh water | Experimental value; Locomotor effect |
| Toxicity algae and other aquatic plants | Toxicity threshold |  | $1800 \mathrm{mg} / \mathrm{l}$ | 7 day (s) | Scenedesmus quadricauda | Static system | Fresh water | Experimental value; Toxicity test |
| Long-term toxicity fish |  |  |  |  |  |  |  | Data waiving |
| Long-term toxicity aquatic crustacea | NOEC |  | $2344 \mu \mathrm{~mol} / \mathrm{l}$ | 16 day(s) | Daphnia magna |  | Fresh water | Experimental value; Growth |
| Toxicity aquatic microorganisms | Toxicity threshold | Equivalent to DIN 38412/8 | $1050 \mathrm{mg} / \mathrm{l}$ | 16 h | Pseudomonas putida | Static system | Fresh water | Experimental value; Toxicity test |
|  | EC50 | ISO 8192 | 41676 mg/l | 30 minutes | Bacteria |  |  | Experimental value; Activated sludge |
| titanium tetraisopropanolate |  |  |  |  |  |  |  |  |
|  | Parameter | Method | Value | Duration | Species | Test design | Fresh/ salt water | Value determination |
| Acute toxicity fishes | LC50 |  | $4200 \mathrm{mg} / \mathrm{l}$ | 96 h | Rasbora heteromorpha | Static system | Fresh water | Read-across |
| Acute toxicity crustacea | EC50 | OECD 202 | $590 \mathrm{mg} / \mathrm{l}$ | 48 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
|  | NOEC | OECD 202 | $440 \mathrm{mg} / \mathrm{l}$ | 24 h | Daphnia magna | Static system | Fresh water | Experimental value; GLP |
| Toxicity algae and other aquatic plants | EC50 | OECD 201 | >820 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Growth rate |
|  | EC50 | OECD 201 | $400 \mathrm{mg} / \mathrm{l}$ | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Biomass |
|  | NOEC | OECD 201 | 201 mg/l | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Biomass |
|  | LOEC | OECD 201 | $97 \mathrm{mg} / \mathrm{l}$ | 72 h | Desmodesmus subspicatus | Static system | Fresh water | Experimental value; Biomass |
| Toxicity aquatic microorganisms | Toxicity threshold | DIN 38412-8 | $1050 \mathrm{mg} / \mathrm{l}$ | 16 h | Pseudomonas putida | Static system | Fresh water | Read-across |

Judgement of the mixture is based on the relevant ingredients

## Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

### 12.2. Persistence and degradability

 propan-2-olBiodegradation water

| Method | Value | Duration | Value determination |
| :---: | :---: | :---: | :---: |
| OECD 301E: M odified OECD Screening Test | 95\% | 21 day(s) | Experimental value |
| Biodegradation soil |  |  |  |
| Method | Value | Duration | Value determination |
|  |  |  | Data waiving |
| Half-life water (t1/2 water) |  |  |  |
| Method | Value | $\begin{aligned} & \text { Primary } \\ & \text { degradation/ mineralisation } \\ & \hline \end{aligned}$ | Value determination |
|  |  | $\underline{\square}$ | Data waiving |

Date of revision: 2017-01-20

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Hazardous waste according to Directive 2008/98/EC.
Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).
2001 29* (separately collected fractions (except 1501 ): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

### 13.1.2 Disposal methods

Recycle/reuse. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into surface water.

### 13.1.3 Packaging/ Container

## European Union

Waste material code packaging (Directive 2008/98/EC).
1501 10* (packaging containing residues of or contaminated by dangerous substances).

## SECTION 14: Transport information

Road (ADR)
14.1. UN number

| UN number | 1219 |
| :--- | :--- |
| 14.2. UN proper shipping name |  |
| Proper shipping name | sopropanol (isopropyl alcohol), mixture |
| 14.3. Transport hazard class(es) |  |
| Hazard identification number | 33 |
| Class | 3 |
| Classification code | F1 |

14.4. Packing group

Packing group
Labels
14.5. Environmental hazards

Environmentally hazardous substance mark
14.6. Special precautions for user

| Special provisions | 601 |
| :--- | :--- |


| Limited quantities | Combination packagings: not more than 1 liter per inner packaging for |
| :--- | :--- | liquids. A package shall not weigh more than 30 kg . (gross mass)

Rail (RID)
14.1. UN number

| UN number |  | 1219 |
| :---: | :---: | :---: |
| 14.2. UN proper shipping name |  |  |
| Proper shipping name |  | \|sopropanol (isopropyl alcohol), mixture |
| 14.3. Transport hazard class(es) |  |  |
| Hazard identification number |  | 33 |
| Class |  | 3 |
| Classification code |  | F1 |
| 14.4. Packing group |  |  |
| Packing group |  | III |
| Labels |  | 3 |
| 14.5. Environmental hazards |  |  |
| Environmentally hazardous substance mark |  | no |
| 14.6. Special precautions for user |  |  |
| Special provisions |  | 601 |
| Limited quantities |  | Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg . (gross mass) |

Inland waterways (ADN)
14.1. UN number

14.2. UN proper shipping name

Proper shipping name
14.3. Transport hazard class(es)

| Class |
| :--- |
| Classification code |

14.4. Packing group
Packing group Labels
14.5. Environmental hazards Environmentally hazardous substance mark
14.6. Special precautions for user Special provisions

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## SECTION 15: Regulatory information

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

## European legislation:

VOC content Directive 2010/75/EU

| VOC content | Remark |
| :--- | :--- |
| $100 \%$ |  |

Ingredients according to Regulation (EC) No 648/2004 and amendments desinfectants

REACH Annex XVII - Restriction
Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

| Designation of the substance, of the group of substances or of the mixture | Conditions of restriction |
| :---: | :---: |
| Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: <br> (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and $2,2.14$ categories 1 and $2,2.15$ types $A$ to F; <br> (b) hazard classes 3.1 to $3.6,3.7$ adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; <br> (c) hazard class 4.1; <br> (d) hazard class 5.1. | 1. Shall not be used in: <br> - ornamental articles intended to produce light or colour effects by means of different <br> phases, for example in ornamental lamps and ashtrays, <br> - tricks and jokes, <br> - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: <br> - can be used as fuel in decorative oil lamps for supply to the general public, and, <br> - present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: <br> a) lamp oils, labelled with R65 or H304, intended for supply to the general public are |

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|  |  | visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil - or even sucking the wick of lamps - may lead to life- threatening lung damage"; <br> b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; <br> c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public.7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the M ember State concerned. Member States shall make those data available to the Commission.' |
| :---: | :---: | :---: |
| $\begin{array}{\|l\|} \hline \text { propan-2-ol } \\ \text { - titanium tetraisopropanolate } \end{array}$ | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1,2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1 , 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1 , regardless of whether they appear in Part 3 of Annex VI to that Regulation or not. | 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: <br> - metallic glitter intended mainly for decoration, <br> - artificial snow and frost, <br> - "whoopee" cushions, <br> - silly string aerosols, <br> - imitation excrement, <br> - horns for parties, <br> - decorative flakes and foams, <br> - artificial cobwebs, <br> - stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: <br> "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC.4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated. |

National legislation Belgium
SURFACE ACTIVATOR
No data available
National legislation The Netherlands


### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted.

## SECTION 16: Other information

Full text of any H-statements referred to under headings 2 and 3:
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
(*)
CLP (EU-GHS)
DMEL
DNEL
EC50
ErC50
LC50
LD50
NOAEL
NOEC
OECD
PBT
PNEC
STP
vPvB

INTERNAL CLASSIFICATION BY BIG
Classification, labelling and packaging (Globally Harmonised System in Europe) Derived M inimal Effect Level
Derived No Effect Level
Effect Concentration 50 \%
EC50 in terms of reduction of growth rate
Lethal Concentration 50 \%
Lethal Dose 50 \%
No Observed Adverse Effect Level
No Observed Effect Concentration
Organisation for Economic Co-operation and Development
Persistent, Bioaccumulative \& Toxic
Predicted No Effect Concentration
Sludge Treatment Process
very Persistent \& very Bioaccumulative

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet has been elaborated for use within the European Union, Switzerland, Iceland, Norway and Lichtenstein. It may be consulted in other countries, where local legislation with regards to the set-up of safety data sheets will take precedence. It is your obligation to verify and apply such local legislation. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/ conditions for details.


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