



# Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

## STP Super Concentrated Fuel Injector Cleaner, 12 oz

Version number: 1.0

Date of compilation: 2020-06-09

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **STP Super Concentrated Fuel Injector Cleaner, 12 oz**  
UPC(s) 071153171084, 071153005068

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

Relevant identified uses General use

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

Energizer Manufacturing, Inc.  
25225 Detroit Rd.  
Westlake OH 44145  
United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA)  
e-mail: energizer@custhelp.com  
Website: <http://data.energizer.com>

Energizer Trading Ltd.  
Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376  
e-mail: ConsumerServiceEU@energizer.com

#### 1.4 Emergency telephone number

Emergency information service 1-314-985-1511 Int'l: 1-800-526-4727  
This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Section | Hazard class            | Category | Hazard class and category | Hazard statement |
|---------|-------------------------|----------|---------------------------|------------------|
| A.1I    | acute toxicity (inhal.) | 3        | Acute Tox. 3              | H331             |
| A.5     | germ cell mutagenicity  | 1B       | Muta. 1B                  | H340             |
| A.6     | carcinogenicity         | 1A       | Carc. 1A                  | H350             |
| A.7     | reproductive toxicity   | 2        | Repr. 2                   | H361d            |
| A.10    | aspiration hazard       | 1        | Asp. Tox. 1               | H304             |



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| Section | Hazard class     | Category | Hazard class and category | Hazard statement |
|---------|------------------|----------|---------------------------|------------------|
| B.6     | flammable liquid | 3        | Flam. Liq. 3              | H226             |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS06, GHS08



- Hazard statements

H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.  
H331 Toxic if inhaled.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H361d Suspected of damaging the unborn child.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/eye protection/face protection.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P311 Call a poison center/doctor.  
P321 Specific treatment (see on this label).  
P331 Do NOT induce vomiting.  
P370+P378 In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.



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### - Precautionary statements

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

### - Hazardous ingredients for labelling

Distillates (petroleum), hydrodesulfurized middle, Kerosene, toluene, benzene

## 2.3 Other hazards

Hazards not otherwise classified

May be harmful in contact with skin (GHS category 5: acutely toxic - dermal).

Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
















## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture)

### 3.2 Mixtures




















Description of the mixture

| Name of substance  | Identifier           | Wt%       | Classification acc. to GHS  | Pictograms  |
|--|----------------------|-----------|---|---|
| Straight-run Kerosene  | CAS No<br>64741-44-2 | 10 – < 25 | Acute Tox. 4 / H332<br>Flam. Liq. 3 / H226  |     |
| Distillates (petroleum), hydrodesulfurized middle                  | CAS No<br>64742-80-9 | 10 – < 25 | Acute Tox. 4 / H332<br>Carc. 1B / H350<br>Flam. Liq. 3 / H226                       |    |
| Kerosene   | CAS No<br>8008-20-6  | 10 – < 25 | Acute Tox. 3 / H331<br>Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226                    |    |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | CAS No<br>68333-25-5 | 10 – < 25 | Acute Tox. 4 / H332<br>Carc. 1B / H350<br>Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226 |    |
| Kerosine (petroleum), hydrodesulfurized                            | CAS No<br>64742-81-0 | 5 – < 10  | Acute Tox. 3 / H331<br>Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226                    |    |
| Distillates (petroleum), light hydrocracked                        | CAS No<br>64741-77-1 | 1 – < 5   | Acute Tox. 3 / H331<br>Carc. 2 / H351<br>Flam. Liq. 3 / H226                        |    |

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| Name of substance                        | Identifier                  | Wt%     | Classification acc. to GHS  | Pictograms   |
|--|-----------------------------|---------|---|--|
| Solvent naphtha (petroleum), light arom. | CAS No 64742-95-6           | 1 – < 5 | Skin Irrit. 2 / H315<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>Flam. Liq. 1 / H224   |     |
| naphthalene                              | CAS No 91-20-3              | < 1     | Acute Tox. 4 / H302<br>Acute Tox. 1 / H330<br>Carc. 2 / H351<br>STOT SE 2 / H371<br>STOT RE 2 / H373  |    |
| cumene                                   | CAS No 98-82-8              | < 1     | Carc. 2 / H351<br>STOT SE 3 / H335<br>Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226   |     |
| 2-ethylhexan-1-ol                        | CAS No 104-76-7             | < 1     | Acute Tox. 2 / H330<br>Flam. Liq. 4 / H227  |   |
| toluene                                  | CAS No 108-88-3             | < 1     | Acute Tox. 1 / H330<br>Skin Irrit. 2 / H315<br>Repr. 2 / H361d<br>STOT SE 3 / H336<br>STOT RE 2 / H373<br>Asp. Tox. 1 / H304<br>Flam. Liq. 2 / H225 |   <br> |
| benzene                                  | CAS No 71-43-2<br>1076-43-3 | < 1     | Skin Irrit. 2 / H315<br>Eye Irrit. 2 / H319<br>Muta. 1B / H340<br>Carc. 1A / H350<br>STOT RE 1 / H372<br>Asp. Tox. 1 / H304<br>Flam. Liq. 2 / H225  |     |
| ethylbenzene                             | CAS No 100-41-4             | < 1     | Acute Tox. 4 / H332<br>Carc. 2 / H351<br>STOT RE 2 / H373<br>Asp. Tox. 1 / H304<br>Flam. Liq. 3 / H226  |     |

For full text of abbreviations: see SECTION 16.

### SECTION 4: First-aid measures

#### 4.1 Description of first- aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.



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Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

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

none

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media

Water jet

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

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

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.



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#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

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

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.



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### - Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

### - Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted. Use local and general ventilation. Ground/bond container and receiving equipment.

### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

## 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent                    | CAS No   | Identifier | TWA [ppm]  | TWA [mg/m <sup>3</sup> ] | STEL [ppm]   | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source           |
|---------|----------------------------------|----------|------------|------------|--------------------------|--------------|---------------------------|-----------------|--------------------------------|----------|------------------|
| US      | hydrocarbon mixture (RCP method) |          | TLV        |            | 100                      |              | 200                       |                 |                                |          | AC-GIH® 2016     |
| US      | ethylbenzene                     | 100-41-4 | PEL (CA)   | 5          | 22                       | 30           | 130                       |                 |                                |          | Cal/ OSHA PEL    |
| US      | ethylbenzene                     | 100-41-4 | REL        | 100 (10 h) | 435 (10 h)               | 125          | 545                       |                 |                                |          | NIOSH REL        |
| US      | ethylbenzene                     | 100-41-4 | TLV®       | 20         |                          |              |                           |                 |                                |          | AC-GIH® 2019     |
| US      | ethylbenzene                     | 100-41-4 | PEL        | 100        | 435                      |              |                           |                 |                                |          | 29 CFR 1910.1000 |
| US      | toluene                          | 108-88-3 | REL        | 100 (10 h) | 375 (10 h)               | 150          | 560                       |                 |                                |          | NIOSH REL        |
| US      | toluene                          | 108-88-3 | TLV®       | 20         |                          |              |                           |                 |                                |          | AC-GIH® 2019     |
| US      | toluene                          | 108-88-3 | PEL        | 200        |                          | 500 (10 min) |                           | 300             |                                |          | 29 CFR 1910.1000 |



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### Occupational exposure limit values (Workplace Exposure Limits)

| Coun<br>try | Name of agent                                  | CAS No         | Iden-<br>tifier | TWA<br>[ppm]  | TWA<br>[mg/<br>m <sup>3</sup> ] | STEL<br>[ppm]  | STEL<br>[mg/<br>m <sup>3</sup> ] | Ceil-<br>ing-C<br>[ppm] | Ceil-<br>ing-C<br>[mg/<br>m <sup>3</sup> ] | Nota<br>tion        | Sourc<br>e              |
|-------------|--|----------------|-----------------|---------------|---------------------------------|----------------|----------------------------------|-------------------------|--|---------------------|-------------------------|
| US          | toluene (toluol)                               | 108-88-3       | PEL<br>(CA)     | 10            | 37                              | 150            | 560                              | 500                     |  |                     | Cal/<br>OSHA<br>PEL     |
| US          | Kerosine - unspec-<br>ified                    | 64742-<br>81-0 | TLV®            |               | 200                             |                |                                  |                         |  | vap,<br>Hy-<br>Carb | AC-<br>GIH®<br>2019     |
| US          | benzene  | 71-43-2        | PEL<br>(CA)     | 1             |                                 | 5              |                                  |                         |  |                     | Cal/<br>OSHA<br>PEL     |
| US          | benzene  | 71-43-2        | TLV®            | 0.5           |                                 | 2.5            |                                  |                         |  |                     | AC-<br>GIH®<br>2019     |
| US          | benzene  | 71-43-2        | PEL             | 1             |                                 | 5              |                                  |                         |  |                     | 29 CFR<br>1910.1<br>000 |
| US          | benzene  | 71-43-2        | REL             | 0.1<br>(10 h) |                                 | 1              |                                  |                         |  | appx-<br>A          | NIOSH<br>REL            |
| US          | benzene  | 71-43-2        | PEL             | 10            |                                 | 50<br>(10 min) |                                  | 25                      |  | us-<br>pel-<br>z2a  | 29 CFR<br>1910.1<br>000 |
| US          | Kerosine (petro-<br>leum)                      | 8008-20-<br>6  | REL             |               | 100<br>(10 h)                   |                |                                  |                         |  |                     | NIOSH<br>REL            |
| US          | Kerosine (petro-<br>leum) (jet fuels,<br>JP 5) | 8008-20-<br>6  | TLV®            |               | 200                             |                |                                  |                         |  | vap,<br>Hy-<br>Carb | AC-<br>GIH®<br>2019     |
| US          | naphthalene                                    | 91-20-3        | PEL<br>(CA)     | 0.1           | 0.5                             |                |                                  |                         |  |                     | Cal/<br>OSHA<br>PEL     |
| US          | naphthalene                                    | 91-20-3        | REL             | 10<br>(10 h)  | 50<br>(10 h)                    | 15             | 75                               |                         |  |                     | NIOSH<br>REL            |
| US          | naphthalene                                    | 91-20-3        | TLV®            | 10            |                                 |                |                                  |                         |  |                     | AC-<br>GIH®<br>2019     |
| US          | naphthalene                                    | 91-20-3        | PEL             | 10            | 50                              |                |                                  |                         |  |                     | 29 CFR<br>1910.1<br>000 |
| US          | cumene   | 98-82-8        | REL             | 50<br>(10 h)  | 245<br>(10 h)                   |                |                                  |                         |  |                     | NIOSH<br>REL            |





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### Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent             | CAS No  | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Ceiling-C [ppm] | Ceiling-C [mg/m <sup>3</sup> ] | Notation | Source           |
|---------|---------------------------|---------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------------|
| US      | cumene                    | 98-82-8 | TLV®       | 50        |                          |            |                           |                 |                                |          | ACGIH® 2019      |
| US      | cumene                    | 98-82-8 | PEL        | 50        | 245                      |            |                           |                 |                                |          | 29 CFR 1910.1000 |
| US      | cumene (isopropylbenzene) | 98-82-8 | PEL (CA)   | 50        | 245                      |            |                           |                 |                                |          | Cal/OSHA PEL     |

#### Notation

appx-A

Ceiling-C

HyCarb

STEL

TWA

us-pel-z2a

vap

NIOSH Potential Occupational Carcinogen (Appendix A)

ceiling value is a limit value above which exposure should not occur

calculated as hydrocarbons

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

This standard applies to the industry segments exempt from the 1 ppm 8-hour TWA and 5 ppm STEL of the benzene standard at 1910.1028.

as vapors

### Biological limit values

| Country | Name of agent | Parameter                          | Notation   | Identifier | Value     | Source      |
|---------|---------------|------------------------------------|------------|------------|-----------|-------------|
| US      | ethylbenzene  | mandelic acid, benzoyl-formic acid | crea       | BEI®       | 0.15 g/g  | ACGIH® 2019 |
| US      | toluene       | toluene                            |            | BEI®       | 0.02 mg/l | ACGIH® 2019 |
| US      | toluene       | toluene                            |            | BEI®       | 0.03 mg/l | ACGIH® 2019 |
| US      | toluene       | o-cresol                           | hydr, crea | BEI®       | 0.3 mg/g  | ACGIH® 2019 |
| US      | benzene       | S-phenylmercapturic acid           | crea       | BEI®       | 25 µg/g   | ACGIH® 2019 |
| US      | benzene       | trans,trans-muconic acid           | crea       | BEI®       | 500 µg/g  | ACGIH® 2019 |

#### Notation

crea

hydr

creatinine

hydrolysis



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Relevant DNELs of components of the mixture

| Name of substance  | CAS No     | End-point | Threshold level         | Protection goal, route of exposure | Used in           | Exposure time              |
|--|------------|-----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Straight-run Kerosene  | 64741-44-2 | DNEL      | 16.4 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Straight-run Kerosene  | 64741-44-2 | DNEL      | 1,501 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| Straight-run Kerosene  | 64741-44-2 | DNEL      | 2.91 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |
| Distillates (petroleum), hydrosulfurized light catalytic cracked | 68333-25-5 | DNEL      | 27.3 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Distillates (petroleum), hydrosulfurized light catalytic cracked | 68333-25-5 | DNEL      | 2,230 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| Distillates (petroleum), hydrosulfurized light catalytic cracked | 68333-25-5 | DNEL      | 2.4 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - systemic effects |
| Distillates (petroleum), light hydrocracked                      | 64741-77-1 | DNEL      | 68.34 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| Distillates (petroleum), light hydrocracked                      | 64741-77-1 | DNEL      | 4,288 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - systemic effects   |
| Distillates (petroleum), light hydrocracked                      | 64741-77-1 | DNEL      | 2.91 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |
| naphthalene  | 91-20-3    | DNEL      | 25 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| naphthalene  | 91-20-3    | DNEL      | 25 mg/m <sup>3</sup>    | human, inhalatory                  | worker (industry) | chronic - local effects    |
| naphthalene  | 91-20-3    | DNEL      | 3.57 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |
| cumene   | 98-82-8    | DNEL      | 100 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - systemic effects |
| cumene   | 98-82-8    | DNEL      | 250 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | acute - local effects      |
| cumene   | 98-82-8    | DNEL      | 15.4 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - systemic effects |



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### Relevant DNELs of components of the mixture

| Name of substance | CAS No   | End-point | Threshold level        | Protection goal, route of exposure | Used in           | Exposure time               |
|-------------------|----------|-----------|------------------------|------------------------------------|-------------------|-----------------------------|
| 2-ethylhexan-1-ol | 104-76-7 | DNEL      | 12.8 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - system-ic effects |
| 2-ethylhexan-1-ol | 104-76-7 | DNEL      | 53.2 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | chronic - local ef-fects    |
| 2-ethylhexan-1-ol | 104-76-7 | DNEL      | 53.2 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry) | acute - local ef-fects      |
| 2-ethylhexan-1-ol | 104-76-7 | DNEL      | 23 mg/kg bw/day        | human, dermal                      | worker (industry) | chronic - system-ic effects |
| toluene           | 108-88-3 | DNEL      | 192 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - system-ic effects |
| toluene           | 108-88-3 | DNEL      | 384 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - systemic effects    |
| toluene           | 108-88-3 | DNEL      | 192 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | chronic - local ef-fects    |
| toluene           | 108-88-3 | DNEL      | 384 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - local ef-fects      |
| toluene           | 108-88-3 | DNEL      | 384 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - system-ic effects |
| ethylbenzene      | 100-41-4 | DNEL      | 77 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry) | chronic - system-ic effects |
| ethylbenzene      | 100-41-4 | DNEL      | 293 mg/m <sup>3</sup>  | human, inhalatory                  | worker (industry) | acute - local ef-fects      |
| ethylbenzene      | 100-41-4 | DNEL      | 180 mg/kg bw/day       | human, dermal                      | worker (industry) | chronic - system-ic effects |

### Relevant PNECs of components of the mixture

| Name of substance | CAS No  | End-point | Threshold level | Organism          | Environmental compartment     | Exposure time                |
|-------------------|---------|-----------|-----------------|-------------------|-------------------------------|------------------------------|
| cumene            | 98-82-8 | PNEC      | 0.035 mg/l      | aquatic organisms | freshwater                    | short-term (single instance) |
| cumene            | 98-82-8 | PNEC      | 0.004 mg/l      | aquatic organisms | marine water                  | short-term (single instance) |
| cumene            | 98-82-8 | PNEC      | 200 mg/l        | aquatic organisms | sewage treat-ment plant (STP) | short-term (single instance) |
| cumene            | 98-82-8 | PNEC      | 3.22 mg/kg      | aquatic organisms | freshwater sedi-ment          | short-term (single instance) |



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| Relevant PNECs of components of the mixture |                      |           |                 |                       |                              |                              |
|---|----------------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No               | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| cumene                                      | 98-82-8              | PNEC      | 0.322 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| cumene                                      | 98-82-8              | PNEC      | 0.624 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |
| 2-ethylhexan-1-ol                           | 104-76-7             | PNEC      | 0.017 mg/l      | aquatic organisms     | freshwater                   | short-term (single instance) |
| 2-ethylhexan-1-ol                           | 104-76-7             | PNEC      | 0.002 mg/l      | aquatic organisms     | marine water                 | short-term (single instance) |
| 2-ethylhexan-1-ol                           | 104-76-7             | PNEC      | 10 mg/l         | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| 2-ethylhexan-1-ol                           | 104-76-7             | PNEC      | 0.284 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| 2-ethylhexan-1-ol                           | 104-76-7             | PNEC      | 0.028 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| 2-ethylhexan-1-ol                           | 104-76-7             | PNEC      | 0.047 mg/kg     | terrestrial organisms | soil                         | short-term (single instance) |
| toluene                                     | 108-88-3             | PNEC      | 0.68 mg/l       | aquatic organisms     | freshwater                   | short-term (single instance) |
| toluene                                     | 108-88-3             | PNEC      | 0.68 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| toluene                                     | 108-88-3             | PNEC      | 13.61 mg/l      | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| toluene                                     | 108-88-3             | PNEC      | 16.39 mg/kg     | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| toluene                                     | 108-88-3             | PNEC      | 16.39 mg/kg     | aquatic organisms     | marine sediment              | short-term (single instance) |
| toluene                                     | 108-88-3             | PNEC      | 2.89 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| benzene                                     | 71-43-2<br>1076-43-3 | PNEC      | 1.9 mg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| benzene                                     | 71-43-2<br>1076-43-3 | PNEC      | 1.9 mg/l        | aquatic organisms     | marine water                 | short-term (single instance) |
| benzene                                     | 71-43-2<br>1076-43-3 | PNEC      | 39 mg/l         | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| benzene                                     | 71-43-2<br>1076-43-3 | PNEC      | 33 mg/kg        | aquatic organisms     | freshwater sediment          | short-term (single instance) |

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| Relevant PNECs of components of the mixture |                      |           |                 |                       |                              |                              |
|---|----------------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No               | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| benzene                                     | 71-43-2<br>1076-43-3 | PNEC      | 33 mg/kg        | aquatic organisms     | marine sediment              | short-term (single instance) |
| benzene                                     | 71-43-2<br>1076-43-3 | PNEC      | 4.8 mg/kg       | terrestrial organisms | soil                         | short-term (single instance) |
| ethylbenzene                                | 100-41-4             | PNEC      | 0.1 mg/l        | aquatic organisms     | freshwater                   | short-term (single instance) |
| ethylbenzene                                | 100-41-4             | PNEC      | 0.01 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| ethylbenzene                                | 100-41-4             | PNEC      | 9.6 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| ethylbenzene                                | 100-41-4             | PNEC      | 13.7 mg/kg      | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| ethylbenzene                                | 100-41-4             | PNEC      | 1.37 mg/kg      | aquatic organisms     | marine sediment              | short-term (single instance) |
| ethylbenzene                                | 100-41-4             | PNEC      | 2.68 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Skin protection

##### - Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### - Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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### SECTION 9: Physical and chemical properties

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

##### Appearance

|                |                |
|----------------|----------------|
| Physical state | liquid         |
| Color          | various        |
| Odor           | characteristic |

##### Other safety parameters

|   |                            |
|---|----------------------------|
| pH (value)                              | not determined             |
| Melting point/freezing point            | not determined             |
| Initial boiling point and boiling range | $\geq -20$ °C at 101.3 kPa |
| Flash point                             | 29 °C at 101.3 kPa         |
| Evaporation rate                        | not determined             |
| Flammability (solid, gas)               | not relevant, (fluid)      |

##### Explosive limits

|                               |   |
|-------------------------------|---|
| - Lower explosion limit (LEL) | 1.4 vol%                                      |
| - Upper explosion limit (UEL) | 7.6 vol%                                      |
| Vapor pressure                | $\leq 240$ kPa at 37.8 °C                     |
| Density                       | not determined                                |
| Vapor density                 | this information is not available             |
| Relative density              | information on this property is not available |
| Solubility(ies)               | not determined                                |

##### Partition coefficient

|                             |                                   |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
|-----------------------------|-----------------------------------|



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|                           |  |
|---------------------------|--|
| Auto-ignition temperature | 220 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity                 | not determined   |
| Explosive properties      | none   |
| Oxidizing properties      | none   |

#### 9.2 Other information

|  |   |
|--|---|
| Solvent content                          | 99.31 %   |
| Solid content                            | 0.6927 %  |
| Temperature class (USA, acc. to NEC 500) | T2D (maximum permissible surface temperature on the equipment: 215°C) |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

### 10.2 Chemical stability

See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

### 10.5 Incompatible materials

Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.



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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

##### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

##### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

##### Acute toxicity

Toxic if inhaled.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

##### - Acute toxicity estimate (ATE)

Inhalation: gas 3,840 ppmV/4h  
Inhalation: vapor 7.276 mg/l/4h

##### Acute toxicity estimate (ATE) of components of the mixture

| Name of substance  | CAS No     | Exposure route        | ATE           |
|--|------------|-----------------------|---------------|
| Straight-run Kerosene  | 64741-44-2 | inhalation: vapor     | 11 mg/l/4h    |
| Straight-run Kerosene  | 64741-44-2 | inhalation: dust/mist | 2.53 mg/l/4h  |
| Distillates (petroleum), hydrodesulfurized middle                  | 64742-80-9 | inhalation: vapor     | 11 mg/l/4h    |
| Distillates (petroleum), hydrodesulfurized middle                  | 64742-80-9 | inhalation: dust/mist | 4.6 mg/l/4h   |
| Kerosene   | 8008-20-6  | inhalation: vapor     | 5.28 mg/l/4h  |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | inhalation: vapor     | 11 mg/l/4h    |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | inhalation: dust/mist | 4.65 mg/l/4h  |
| Kerosine (petroleum), hydrodesulfurized                            | 64742-81-0 | inhalation: vapor     | 5.28 mg/l/4h  |
| Distillates (petroleum), light hydrocracked                        | 64741-77-1 | inhalation: vapor     | 3.6 mg/l/4h   |
| naphthalene  | 91-20-3    | oral                  | 710 mg/kg     |
| naphthalene  | 91-20-3    | inhalation: vapor     | 0.4 mg/l/4h   |
| naphthalene  | 91-20-3    | inhalation: dust/mist | 0.005 mg/l/4h |
| 2-ethylhexan-1-ol  | 104-76-7   | inhalation: vapor     | 0.89 mg/l/4h  |
| toluene  | 108-88-3   | inhalation: gas       | 7.6 ppmV/4h   |
| ethylbenzene   | 100-41-4   | inhalation: vapor     | 11 mg/l/4h    |





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### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

### Germ cell mutagenicity

May cause genetic defects.

### Carcinogenicity

May cause cancer.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | CAS No   | Classification | Number |
|-------------------|----------|----------------|--------|
| benzene           | 71-43-2  | 1              |        |
| ethylbenzene      | 100-41-4 | 2B             |        |
| cumene            | 98-82-8  | 2B             |        |
| naphthalene       | 91-20-3  | 2B             |        |
| toluene           | 108-88-3 | 3              |        |

#### Legend

- 1 Carcinogenic to humans
- 2B Possibly carcinogenic to humans
- 3 Not classifiable as to carcinogenicity in humans

#### National Toxicology Program (United States): Report on Carcinogens

| Name of substance | CAS No  | Classification                                  | Number                     |
|-------------------|---------|---|----------------------------|
| benzene           | 71-43-2 | Known to be a human carcinogen                  | 1st Report on Carcinogens  |
| cumene            | 98-82-8 | Reasonably anticipated to be a human carcinogen | 13th Report on Carcinogens |
| naphthalene       | 91-20-3 | Reasonably anticipated to be a human carcinogen | 11th Report on Carcinogens |



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29 CFR 1910/1915/1926 Occupational Safety and Health Standards: Toxic and Hazardous Substances (carcinogens)

| Name of substance | CAS No  | Type of registration                        |
|-------------------|---------|---|
| benzene           | 71-43-2 | GI §1910.1028, SE §1915.1028, CI §1926.1128 |

### Legend

CI §1926.1128

GI §1910.1028

SE §1915.1028

Construction Industry (29 CFR 1926.1128)§us\_oshacarc\_1\_2017

General Industry (29 CFR 1910.1028)§us\_oshacarc\_1\_2017

Shipyard Employment (29 CFR 1915.1028)§us\_oshacarc\_1\_2017

### Reproductive toxicity

Suspected of damaging the unborn child.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture

| Name of substance  | CAS No     | Endpoint | Value       | Species               | Exposure time |
|--|------------|----------|-------------|-----------------------|---------------|
| Straight-run Kerosene  | 64741-44-2 | LL50     | >100 mg/l   | fish                  | 24 h          |
| Straight-run Kerosene  | 64741-44-2 | EL50     | >1,000 mg/l | aquatic invertebrates | 24 h          |
| Distillates (petroleum), hydrodesulfurized middle                  | 64742-80-9 | LL50     | >100 mg/l   | fish                  | 24 h          |
| Distillates (petroleum), hydrodesulfurized middle                  | 64742-80-9 | EL50     | >1,000 mg/l | aquatic invertebrates | 24 h          |
| Kerosene   | 8008-20-6  | LL50     | 5 mg/l      | fish                  | 96 h          |
| Kerosene   | 8008-20-6  | EL50     | 1.4 mg/l    | aquatic invertebrates | 48 h          |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | LL50     | >0.3 mg/l   | fish                  | 96 h          |



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### Aquatic toxicity (acute) of components of the mixture

| Name of substance  | CAS No               | Endpoint | Value      | Species               | Exposure time |
|--|----------------------|----------|------------|-----------------------|---------------|
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5           | LC50     | >0.21 mg/l | fish                  | 96 h          |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5           | EL50     | 0.32 mg/l  | aquatic invertebrates | 48 h          |
| Kerosine (petroleum), hydrodesulfurized                            | 64742-81-0           | LL50     | 5 mg/l     | fish                  | 96 h          |
| Kerosine (petroleum), hydrodesulfurized                            | 64742-81-0           | EL50     | 1.4 mg/l   | aquatic invertebrates | 48 h          |
| Distillates (petroleum), light hydrocracked                        | 64741-77-1           | LL50     | >100 mg/l  | fish                  | 24 h          |
| Distillates (petroleum), light hydrocracked                        | 64741-77-1           | EL50     | 180 mg/l   | aquatic invertebrates | 24 h          |
| Solvent naphtha (petroleum), light arom.                           | 64742-95-6           | LL50     | 8.2 mg/l   | fish                  | 96 h          |
| Solvent naphtha (petroleum), light arom.                           | 64742-95-6           | EL50     | 4.5 mg/l   | aquatic invertebrates | 48 h          |
| naphthalene  | 91-20-3              | LC50     | 1.6 mg/l   | fish                  | 96 h          |
| naphthalene  | 91-20-3              | EC50     | 2.16 mg/l  | aquatic invertebrates | 48 h          |
| cumene   | 98-82-8              | LC50     | 4.7 mg/l   | fish                  | 96 h          |
| cumene   | 98-82-8              | EC50     | 2.14 mg/l  | aquatic invertebrates | 48 h          |
| cumene   | 98-82-8              | ErC50    | 2.01 mg/l  | algae                 | 72 h          |
| 2-ethylhexan-1-ol  | 104-76-7             | LC50     | 17.1 mg/l  | fish                  | 96 h          |
| 2-ethylhexan-1-ol  | 104-76-7             | EC50     | 39 mg/l    | aquatic invertebrates | 48 h          |
| 2-ethylhexan-1-ol  | 104-76-7             | ErC50    | 16.6 mg/l  | algae                 | 72 h          |
| toluene  | 108-88-3             | LC50     | 5.5 mg/l   | fish                  | 96 h          |
| toluene  | 108-88-3             | EC50     | 84 mg/l    | microorganisms        | 24 h          |
| benzene  | 71-43-2<br>1076-43-3 | LC50     | 5.3 mg/l   | fish                  | 96 h          |
| benzene  | 71-43-2<br>1076-43-3 | EC50     | 10 mg/l    | aquatic invertebrates | 24 h          |



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### Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No               | Endpoint | Value    | Species               | Exposure time |
|-------------------|----------------------|----------|----------|-----------------------|---------------|
| benzene           | 71-43-2<br>1076-43-3 | ErC50    | 100 mg/l | algae                 | 72 h          |
| ethylbenzene      | 100-41-4             | LC50     | 7 mg/l   | fish                  | 24 h          |
| ethylbenzene      | 100-41-4             | EC50     | 2.4 mg/l | aquatic invertebrates | 48 h          |

### Aquatic toxicity (chronic) of components of the mixture

| Name of substance  | CAS No     | Endpoint | Value       | Species               | Exposure time |
|--|------------|----------|-------------|-----------------------|---------------|
| Straight-run Kerosene  | 64741-44-2 | EL50     | >1,000 mg/l | microorganisms        | 40 h          |
| Distillates (petroleum), hydrodesulfurized middle                  | 64742-80-9 | EL50     | >1,000 mg/l | microorganisms        | 40 h          |
| Kerosene   | 8008-20-6  | EL50     | 0.89 mg/l   | aquatic invertebrates | 21 d          |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | EL50     | 0.22 mg/l   | aquatic invertebrates | 21 d          |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | EC50     | 0.17 mg/l   | aquatic invertebrates | 21 d          |
| Kerosine (petroleum), hydrodesulfurized                            | 64742-81-0 | EL50     | 0.89 mg/l   | aquatic invertebrates | 21 d          |
| Distillates (petroleum), light hydrocracked                        | 64741-77-1 | EL50     | >1,000 mg/l | microorganisms        | 40 h          |
| Solvent naphtha (petroleum), light arom.                           | 64742-95-6 | EL50     | 10 mg/l     | fish                  | 21 d          |
| Solvent naphtha (petroleum), light arom.                           | 64742-95-6 | EC50     | 15.41 mg/l  | microorganisms        | 40 h          |
| naphthalene  | 91-20-3    | EC50     | 2.96 mg/l   | algae                 | 4 h           |
| cumene   | 98-82-8    | EC50     | 1.5 mg/l    | aquatic invertebrates | 21 d          |
| cumene   | 98-82-8    | LC50     | >3 mg/l     | aquatic invertebrates | 21 d          |
| toluene  | 108-88-3   | LC50     | 3.78 mg/l   | aquatic invertebrates | 2 d           |
| toluene  | 108-88-3   | EC50     | 3.23 mg/l   | aquatic invertebrates | 7 d           |
| ethylbenzene   | 100-41-4   | LC50     | 3.6 mg/l    | aquatic invertebrates | 7 d           |



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#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

|      |  |                                       |
|------|--|---------------------------------------|
| 14.1 | UN number                              | 1992                                  |
| 14.2 | UN proper shipping name                | Flammable liquid, toxic, n.o.s.       |
|      | Technical name (hazardous ingredients) | Kerosene, Straight-run Kerosene       |
| 14.3 | Transport hazard class(es)             |                                       |
|      | Class                                  | 3 (flammable liquids)                 |
|      | Subsidiary risk(s)                     | 6.1 (acute toxicity)                  |
| 14.4 | Packing group                          | III (substance presenting low danger) |
| 14.5 | Environmental hazards                  | hazardous to the aquatic environment  |



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Environmentally hazardous substance (aquatic environment)

Kerosene

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

### Information for each of the UN Model Regulations

DOT

#### Transport of dangerous goods by road or rail (49 CFR US DOT)

|  |   |
|--|---|
| Index number                               | 1992  |
| Proper shipping name                       | Flammable liquid, toxic, n.o.s.   |
| - Particulars in the shipper's declaration | UN1992, Flammable liquid, toxic, n.o.s., (contains: Kerosene, Straight-run Kerosene), 3 (6.1), III, environmentally hazardous |
| - Reportable quantity (RQ)                 | 5,053 lbs (2,294 kg) (benzene) (naphthalene)  |
| Class                                      | 3   |
| Subsidiary risk(s)                         | 6.1   |
| Packing group                              | III   |
| Danger label(s)                            | 3+6.1, fish and tree  |



Environmental hazards      yes (hazardous to the aquatic environment)

Special provisions (SP)      B1, IB3, T7, TP1, TP28

ERG No      131

#### International Maritime Dangerous Goods Code (IMDG)

|  |   |
|--|---|
| UN number                                  | 1992  |
| Proper shipping name                       | FLAMMABLE LIQUID, TOXIC, N.O.S.   |
| - Particulars in the shipper's declaration | UN1992, FLAMMABLE LIQUID, TOXIC, N.O.S., (contains: Kerosene, Straight-run Kerosene), 3 (6.1), III, 29°C c.c., MARINE POLLUTANT |
| Class                                      | 3   |
| Subsidiary risk(s)                         | 6.1   |
| Marine pollutant                           | yes (hazardous to the aquatic environment)  |
| Packing group                              | III   |



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Danger label(s)

3+6.1, fish and tree



Special provisions (SP)

223, 274

Excepted quantities (EQ)

E1

Limited quantities (LQ)

5 L

EmS

F-E, S-D

Stowage category

A

### International Civil Aviation Organization (ICAO-IATA/DGR)

UN number

1992

Proper shipping name

Flammable liquid, toxic, n.o.s.

- Particulars in the shipper's declaration

UN1992, Flammable liquid, toxic, n.o.s., (contains: Kerosene, Straight-run Kerosene), 3 (6.1), III

Class

3

Subsidiary risk(s)

6.1

Environmental hazards

yes (hazardous to the aquatic environment)

Packing group

III

Danger label(s)

3+6.1



Special provisions (SP)

A3

Excepted quantities (EQ)

E1

Limited quantities (LQ)

2 L

## SECTION 15: Regulatory information

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

#### National regulations (United States)

##### Toxic Substance Control Act (TSCA)

all ingredients are listed

##### Superfund Amendment and Reauthorization Act (SARA TITLE III )

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed



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### - Specific Toxic Chemical Listings (EPCRA Section 313)

#### Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance | CAS No   | Remarks | Effective date |
|-------------------|----------|---------|----------------|
| benzene           | 71-43-2  |         | 1987-01-01     |
| ethylbenzene      | 100-41-4 |         | 1987-01-01     |
| cumene            | 98-82-8  |         | 1987-01-01     |
| naphthalene       | 91-20-3  |         | 1987-01-01     |
| toluene           | 108-88-3 |         | 1987-01-01     |

### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

#### - List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No   | Remarks | Statutory code   | Final RQ pounds (Kg) |
|-------------------|----------|---------|------------------|----------------------|
| benzene           | 71-43-2  | a       | 1<br>2<br>3<br>4 | 10 (4,54)            |
| benzene           |          |         |                  |                      |
| ethylbenzene      | 100-41-4 |         | 1<br>2<br>3      | 1000 (454)           |
| cumene            | 98-82-8  |         | 3<br>4           | 5000 (2270)          |
| naphthalene       | 91-20-3  |         | 1<br>2<br>3<br>4 | 100 (45,4)           |
| toluene           | 108-88-3 |         | 1<br>2<br>3<br>4 | 1000 (454)           |

#### Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- 2 "2" indicates that the source is section 307(a) of the Clean Water Act
- 3 "3" indicates that the source is section 112 of the Clean Air Act
- 4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)
- a Benzene was already a CERCLA hazardous substance prior to the CAA Amendments of 1990 and received an adjusted 10-pound RQ based on potential carcinogenicity in an August 14, 1989, final rule (54 FR 33418). The CAA Amendments specify that "benzene (including benzene from gasoline)" is a hazardous air pollutant and, thus, a CERCLA hazardous substance.

### Clean Air Act

none of the ingredients are listed





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### Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance  | CAS No     | Functionality             | Authoritative Lists   |
|--|------------|---------------------------|---|
| Straight-run Kerosene  | 64741-44-2 | solvents                  |   |
| Distillates (petroleum), hydrosulfurized middle                  | 64742-80-9 | solvents                  | EC Annex VI CMRs - Cat. 1B  |
| Distillates (petroleum), hydrosulfurized light catalytic cracked | 68333-25-5 | solvents                  | EC Annex VI CMRs - Cat. 1B  |
| Kerosene   | 8008-20-6  | solvents                  | ATSDR Neurotoxicants<br>CWA 303(d)  |
| Distillates (petroleum), light hydrocracked                      | 64741-77-1 | solvents                  |   |
| Solvent naphtha (petroleum), light arom.                         | 64742-95-6 | solvents                  | EC Annex VI CMRs - Cat. 1B  |
| 1,2,4 trimethylbenzene   | 95-63-6    |                           | CA NLS<br>IRIS Neurotoxicants   |
| Xylene   | 1330-20-7  | solvents                  | ATSDR Neurotoxicants<br>CA MCLs<br>CA TACs<br>CDC 4th National Exposure Report<br>CWA 303(d)<br>IRIS Neurotoxicants<br>OEHA RELs  |
| Naphthalene  | 91-20-3    | nonfunctional contaminant | ATSDR Neurotoxicants<br>CA NLS<br>CA TACs<br>CDC 4th National Exposure Report<br>CWA 303(c)<br>CWA 303(d)<br>IARC Carcinogens - 2B<br>NTP 13th RoC - reasonable<br>OEHA RELs<br>Prop 65<br>US EPA NWMP PBTs |
| 1,3,5-trimethylbenzene   | 108-67-8   |                           | CA NLS<br>IRIS Neurotoxicants   |
| Propylbenzene  | 103-65-1   | fragrance                 | CA NLS  |
| 1,2,3-Trimethylbenzene   | 526-73-8   | solvents                  | IRIS Neurotoxicants   |
| Cumene   | 98-82-8    | nonfunctional constituent | CA NLS<br>CA TACs<br>CDC 4th National Exposure Report<br>IARC Carcinogens - 2B<br>NTP 13th RoC - reasonable<br>OEHA RELs<br>Prop 65   |



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| Name of substance           | CAS No       | Functionality     | Authoritative Lists   |
|-----------------------------|--------------|-------------------|---|
| Benzene                     | 71-43-2      | reactive residual | ATSDR Neurotoxicants<br>CA MCLs<br>CA TACs<br>CDC 4th National Exposure Report<br>CWA 303(c)<br>CWA 303(d)<br>EC Annex VI CMRs - Cat. 1A<br>EC Annex VI CMRs - Cat. 1B<br>IARC Carcinogens - 1<br>IRIS Carcinogens - A<br>NTP 13th RoC - known<br>OEHHA RELs<br>Prop 65 |
| Benzene                     | 71-43-2      | reactive residual | Nonfunctional constituents  |
| Ethylbenzene                | 100-41-4     | fuel additive     | ATSDR Neurotoxicants<br>CA MCLs<br>CA TACs<br>CDC 4th National Exposure Report<br>CWA 303(c)<br>CWA 303(d)<br>IARC Carcinogens - 2B<br>OEHHA RELs<br>Prop 65  |
| Toluene                     | 108-88-3     | solvents          | ATSDR Neurotoxicants<br>CA MCLs<br>CA TACs<br>CDC 4th National Exposure Report<br>CWA 303(c)<br>CWA 303(d)<br>IRIS Neurotoxicants<br>OEHHA RELs<br>Prop 65  |
| Biphenyl                    | 92-52-4      |                   | CA TACs   |
| Butanedioic acid derivative | trade secret | pH Adjuster       |   |

### - Toxic or Hazardous Substance List (MA-TURA)

| Name of substance      | CAS No    | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|------------------------|-----------|----------|-----------------|---------------------|------------------------------------|
| Propylbenzene          | 98-82-8   |          |                 |                     | 0.1 %                              |
| benzene                | 71-43-2   |          |                 |                     | 1.0 %                              |
| ethylbenzene           | 100-41-4  |          |                 |                     | 0.1 %                              |
| cumene                 | 98-82-8   |          |                 |                     | 0.1 %                              |
| 1,2,4 trimethlybenzene | 95-63-6   |          |                 |                     | 1.0 %                              |
| xylene                 | 1330-20-7 |          |                 |                     | 1.0 %                              |



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| Name of substance | CAS No   | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------|----------|----------|-----------------|---------------------|------------------------------------|
| naphthalene       | 91-20-3  |          |                 |                     | 0.1 %                              |
| toluene           | 108-88-3 |          |                 |                     | 1.0 %                              |

### - Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No  | References       | Remarks |
|-------------------|---------|------------------|---------|
| benzene           | 71-43-2 | A, N, O, R, T, * |         |

#### Legend

- \* Substances which are regulated by OSHA as carcinogens; have been categorized by the ACGIH as either "human carcinogens" or "suspect of carcinogenic potential for man"; have been evaluated by the International Agency for Research on Cancer (IARC) and found to be carcinogens or potential carcinogens; or have been listed as a carcinogen or potential carcinogen in the Annual Report on Carcinogens published by the National Toxicology Program (NTP).
- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer
- O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
- R International Agency for Research on Cancer (IARC) Monographs on the Evaluation of the Carcinogenic Risks to Humans; Overall Evaluations of Carcinogenicity: An Updating of IARC Monographs Volumes 1 to 42, Supplement 7 (1987). Available from: WHO Publications Centre USA
- T National Toxicology Program (NTP) "Fifth Annual Report on Carcinogens," 1989 (NTP 89-239). Order information: (919) 541-3992

### - Hazardous Substance List (NJ-RTK)

| Name of substance      | CAS No     | Remarks | Classifications |
|------------------------|------------|---------|-----------------|
| Propylbenzene          | 103-65-1   |         | F3              |
| 1,2,3-Trimethylbenzene | 25551-13-7 |         | F2              |
| benzene                | 71-43-2    |         | CA<br>MU<br>F3  |
| ethylbenzene           | 100-41-4   |         | CA<br>F3        |
| cumene                 | 98-82-8    |         | F3<br>R1        |
| Kerosene               | 8008-20-6  |         | F2              |
| 1,2,4 trimethylbenzene | 95-63-6    |         | F2              |
| xylene                 | 1330-20-7  |         | F3              |
| naphthalene            | 91-20-3    |         | CA<br>F2        |



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| Name of substance      | CAS No     | Remarks | Classifications |
|------------------------|------------|---------|-----------------|
| 1,3,5-trimethylbenzene | 25551-13-7 |         | F2              |
| toluene                | 108-88-3   |         | TE<br>F3        |

### Legend

|    |                           |
|----|---------------------------|
| CA | Carcinogenic              |
| F2 | Flammable - Second Degree |
| F3 | Flammable - Third Degree  |
| MU | Mutagenic                 |
| R1 | Reactive - First Degree   |
| TE | Teratogenic               |

### - Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory    | CAS No    | Classification |
|---------------------------|-----------|----------------|
| BENZENE                   | 71-43-2   | E, S           |
| BENZENE, ETHYL-           | 100-41-4  | E              |
| BENZENE, (1-METHYLETHYL)- | 98-82-8   | E              |
| KEROSINE (PETROLEUM)      | 8008-20-6 |                |
| PSEUDOCUMENE              | 95-63-6   | E              |
| BENZENE, DIMETHYL-        | 1330-20-7 | E              |
| NAPHTHALENE               | 91-20-3   | E              |
| BENZENE, METHYL-          | 108-88-3  | E              |

### Legend

|   |                             |
|---|-----------------------------|
| E | Environmental hazard        |
| S | Special hazardous substance |

### - Hazardous Substance List (RI-RTK)

| Name of substance      | CAS No     | References |
|------------------------|------------|------------|
| Propylbenzene          | 98-82-8    | T, F       |
| 1,2,3-Trimethylbenzene | 25551-13-7 | T          |
| benzene                | 71-43-2    | T, F, C    |
| ethylbenzene           | 100-41-4   | T, F       |
| cumene                 | 98-82-8    | T, F       |
| Kerosene               | 8008-20-6  | F          |
| 1,2,4 trimethylbenzene | 25551-13-7 | T          |
| xylene                 | 1330-20-7  | T, F       |



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| Name of substance      | CAS No     | References |
|------------------------|------------|------------|
| naphthalene            | 91-20-3    | T, F       |
| 1,3,5-trimethylbenzene | 25551-13-7 | T          |
| toluene                | 108-88-3   | T, F       |

#### Legend

C Carcinogenicity (IARC)  
F Flammability (NFPA®)  
T Toxicity (ACGIH®)

#### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

##### Proposition 65 List of chemicals

| Name acc. to inventory | CAS No   | Remarks | Type of the toxicity |
|------------------------|----------|---------|----------------------|
| benzene                | 71-43-2  |         | cancer               |
| benzene                | 71-43-2  |         | developmental, male  |
| ethylbenzene           | 100-41-4 |         | cancer               |
| cumene                 | 98-82-8  |         | cancer               |
| naphthalene            | 91-20-3  |         | cancer               |
| toluene                | 108-88-3 |         | developmental        |

#### Industry or sector specific available guidance(s)

##### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category            | Rating | Description  |
|---------------------|--------|--|
| Chronic             | *      | chronic (long-term) health effects may result from repeated overexposure   |
| Health              | 1      | irritation or minor reversible injury possible   |
| Flammability        | 3      | material that can be ignited under almost all ambient temperature conditions   |
| Physical hazard     | 0      | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | -      |  |

##### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).



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| Category       | Degree of hazard | Description  |
|----------------|------------------|--|
| Flammability   | 3                | material that can be ignited under almost all ambient temperature conditions                     |
| Health         | 2                | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability    | 0                | material that is normally stable, even under fire conditions                                     |
| Special hazard |                  |  |

### National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| AU      | AICS       | all ingredients are listed     |
| CA      | DSL        | all ingredients are listed     |
| CA      | NDSL       | not all ingredients are listed |
| CN      | IECSC      | all ingredients are listed     |
| EU      | ECSI       | all ingredients are listed     |
| EU      | REACH Reg. | not all ingredients are listed |
| JP      | CSCL-ENCS  | not all ingredients are listed |
| JP      | ISHA-ENCS  | not all ingredients are listed |
| KR      | KECI       | all ingredients are listed     |
| MX      | INSQ       | not all ingredients are listed |
| NZ      | NZIoC      | not all ingredients are listed |
| PH      | PICCS      | all ingredients are listed     |
| TR      | CICR       | not all ingredients are listed |
| TW      | TCSI       | not all ingredients are listed |
| US      | TSCA       | all ingredients are listed     |

#### Legend

|            |   |
|------------|---|
| AICS       | Australian Inventory of Chemical Substances                             |
| CICR       | Chemical Inventory and Control Regulation                               |
| CSCL-ENCS  | List of Existing and New Chemical Substances (CSCL-ENCS)                |
| DSL        | Domestic Substances List (DSL)  |
| ECSI       | EC Substance Inventory (EINECS, ELINCS, NLP)                            |
| IECSC      | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ       | National Inventory of Chemical Substances                               |
| ISHA-ENCS  | Inventory of Existing and New Chemical Substances (ISHA-ENCS)           |
| KECI       | Korea Existing Chemicals Inventory                                      |
| NDSL       | Non-domestic Substances List (NDSL)                                     |
| NZIoC      | New Zealand Inventory of Chemicals                                      |
| PICCS      | Philippine Inventory of Chemicals and Chemical Substances               |
| REACH Reg. | REACH registered substances   |
| TCSI       | Taiwan Chemical Substance Inventory                                     |



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### Legend

TSCA

Toxic Substance Control Act

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

| Abbr.            | Descriptions of used abbreviations   |
|------------------|--|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)  |
| 49 CFR US DOT    | 49 CFR U.S. Department of Transportation   |
| ACGIH®           | American Conference of Governmental Industrial Hygienists  |
| ACGIH® 2019      | From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a> |
| Acute Tox.       | Acute toxicity   |
| Asp. Tox.        | Aspiration hazard  |
| ATE              | Acute Toxicity Estimate  |
| Cal/OSHA PEL     | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)   |
| Carc.            | Carcinogenicity  |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |
| Ceiling-C        | Ceiling value  |
| DEP CODE         | Department of Environmental Protection Code  |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)   |
| DNEL             | Derived No-Effect Level  |
| DOT              | Department of Transportation (USA)   |
| EC50             | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval   |
| EINECS           | European Inventory of Existing Commercial Chemical Substances  |
| EL50             | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms   |
| ELINCS           | European List of Notified Chemical Substances  |
| EmS              | Emergency Schedule   |



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| Abbr.          | Descriptions of used abbreviations   |
|----------------|--|
| ErC50          | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| ERG No         | Emergency Response Guidebook - Number  |
| Eye Dam.       | Seriously damaging to the eye  |
| Eye Irrit.     | Irritant to the eye  |
| Flam. Liq.     | Flammable liquid   |
| GHS            | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations  |
| HHS            | Higher hazard substance  |
| IARC           | International Agency for Research on Cancer  |
| IATA           | International Air Transport Association  |
| IATA/DGR       | Dangerous Goods Regulations (DGR) for the air transport (IATA)   |
| ICAO           | International Civil Aviation Organization  |
| IMDG           | International Maritime Dangerous Goods Code  |
| LC50           | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                      |
| LHS            | Lower hazard substance   |
| LL50           | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality   |
| MARPOL         | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")  |
| Muta.          | Germ cell mutagenicity   |
| NFPA®          | National Fire Protection Association (United States)   |
| NIOSH REL      | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)  |
| NLP            | No-Longer Polymer  |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition  |
| OSHA           | Occupational Safety and Health Administration (United States)  |
| PBT            | Persistent, Bioaccumulative and Toxic  |
| PEL            | Permissible exposure limit   |
| PNEC           | Predicted No-Effect Concentration  |
| ppm            | Parts per million  |
| RCP            | Reciprocal calculation procedure   |
| Repr.          | Reproductive toxicity  |





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| Abbr.       | Descriptions of used abbreviations  |
|-------------|---|
| RTECS       | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr.  | Corrosive to skin   |
| Skin Irrit. | Irritant to skin  |
| STEL        | Short-term exposure limit   |
| STOT RE     | Specific target organ toxicity - repeated exposure  |
| STOT SE     | Specific target organ toxicity - single exposure  |
| TLV®        | Threshold Limit Values  |
| TWA         | Time-weighted average   |
| vPvB        | Very Persistent and very Bioaccumulative  |

### Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text  |
|------|---|
| H224 | Extremely flammable liquid and vapor.         |
| H225 | Highly flammable liquid and vapor.            |
| H226 | Flammable liquid and vapor.                   |
| H227 | Combustible liquid.                           |
| H302 | Harmful if swallowed.                         |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation.                       |
| H319 | Causes serious eye irritation.                |
| H330 | Fatal if inhaled.                             |
| H331 | Toxic if inhaled.                             |
| H332 | Harmful if inhaled.                           |



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| Code  | Text   |
|-------|--|
| H335  | May cause respiratory irritation.                                  |
| H336  | May cause drowsiness or dizziness.                                 |
| H340  | May cause genetic defects.   |
| H350  | May cause cancer.  |
| H351  | Suspected of causing cancer.                                       |
| H361d | Suspected of damaging the unborn child.                            |
| H371  | May cause damage to organs.  |
| H372  | Causes damage to organs through prolonged or repeated exposure.    |
| H373  | May cause damage to organs through prolonged or repeated exposure. |

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.