



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

STP Octane Booster 12 oz

Version number: 8.3
Replaces version of: 2023-06-05 (7)

Revision: 2023-09-11

SECTION 1: Identification

1.1 Product identifier

Trade name **STP Octane Booster 12 oz**
Alternative number(s) 071153653825

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: Autocare.regulatory@energizer.com
Website: <http://data.energizer.com>

1.4 Emergency telephone number

Emergency information service
FOR EMERGENCY in USA & Canada CALL +1 800 255-3924 / For International CALL +1 813 248 0585
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.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 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.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| A.10 | aspiration hazard | 1 | Asp. Tox. 1 | H304 |
| B.6 | flammable liquid | 3 | Flam. Liq. 3 | H226 |

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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, GHS07,
GHS08



- Hazard statements

| | |
|-------|---|
| H226 | Flammable liquid and vapor. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H331 | Toxic if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| 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 mist/vapors. |
| 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. |
| P302+P352 | If on skin: Wash with plenty of water. |
| 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. |
| P362 | Take off contaminated clothing and wash before reuse. |
| 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. |



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- Precautionary statements

P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Hazardous ingredients for labelling

Distillates (petroleum), hydrodesulfurized middle, naphthalene, benzene, Jet A-1, toluene

2.3 Other hazards

Hazards not otherwise classified

May be harmful if swallowed (GHS category 5: acutely toxic - oral).
Toxic to aquatic life with long lasting effects (GHS category 2: aquatic toxicity - acute and/or chronic).

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.













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 64741-44-2 | 10 – < 25 | Acute Tox. 4 / H332 Flam. Liq. 3 / H226 |   |
| Distillates (petroleum), hydrodesulfurized middle | CAS No 64742-80-9 | 10 – < 25 | Acute Tox. 4 / H332 Carc. 1B / H350 Flam. Liq. 3 / H226 |    |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | CAS No 68333-25-5 | 10 – < 25 | Acute Tox. 4 / H332 Carc. 1B / H350 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 |    |
| Jet A-1 | CAS No 8008-20-6 | 10 – < 25 | Acute Tox. 3 / H331 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 |     |



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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|--|---|----------|--|------------|
| Kerosine (petroleum), hydrodesulfurized | CAS No 64742-81-0 | 5 – < 10 | Acute Tox. 3 / H331 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 | |
| Distillates (petroleum), light hydrocracked | CAS No 64741-77-1 | 1 – < 5 | Acute Tox. 3 / H331 Carc. 2 / H351 Flam. Liq. 3 / H226 | |
| Solvent naphtha (petroleum), light arom. | CAS No 64742-95-6 | 1 – < 5 | Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Flam. Liq. 1 / H224 | |
| Tricarbonyl(methylcyclopentadienyl)manganese | CAS No 12108-13-3 | 1 – < 5 | Acute Tox. 3 / H301 Acute Tox. 2 / H310 Acute Tox. 1 / H330 | |
| naphthalene | CAS No 91-20-3 | < 1 | Acute Tox. 4 / H302 Acute Tox. 1 / H330 Carc. 2 / H351 STOT SE 2 / H371 STOT RE 2 / H373 | |
| Propylbenzene | CAS No 103-65-1 RTECS No DA8750000 | < 1 | Carc. 2 / H351 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 | |
| cumene | CAS No 98-82-8 | < 1 | Carc. 2 / H351 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 | |
| 2-ethylhexan-1-ol | CAS No 104-76-7 | < 1 | Acute Tox. 2 / H330 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Flam. Liq. 4 / H227 | |
| benzene | CAS No 71-43-2 | < 1 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Muta. 1B / H340 Carc. 1A / H350 STOT RE 1 / H372 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225 | |
| ethylbenzene | CAS No 100-41-4 | < 1 | Acute Tox. 4 / H332 Carc. 2 / H351 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 | |







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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|-------------------|--------------------|-----|---|---|
| toluene | CAS No 108-88-3 | < 1 | Acute Tox. 1 / H330 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Flam. Liq. 2 / H225 |     |

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. In case of respiratory tract irritation, consult a physician. Provide fresh air.

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

Narcotic effects.

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 (CO₂)

Unsuitable extinguishing media

Water jet



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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 (CO₂)

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.

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.



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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.

- 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.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|---|----------------|-----------------|---------------|--------------------|--------------------|---------------------|-------------------------|-------------------------------|--------------|-------------------------|
| Coun try | Name of agent | CAS No | Iden- tifier | TWA [ppm] | TWA [mg/ m³] | STEL [ppm] | STEL [mg/ m³] | Ceil- ing-C [ppm] | Ceil- ing-C [mg/ m³] | Nota tion | Sourc e |
| US | C7-C8 aromatics | | TLV® | | 200 | | | | | | AC- GIH® 2023 |
| US | C9-C15 aromatics | | TLV® | | 100 | | | | | | AC- GIH® 2023 |
| 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® 2023 |
| US | ethylbenzene | 100-41-4 | PEL | 100 | 435 | | | | | | 29 CFR 1910.1 000 |
| US | 2-ethyl-1-hexanol | 104-76-7 | TLV® | 5 | | | | | | | AC- GIH® 2023 |
| 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® 2023 |
| US | toluene | 108-88-3 | PEL | 200 | | 500 (10 min) | | 300 | | | 29 CFR 1910.1 000 |
| US | toluene (toluol) | 108-88-3 | PEL (CA) | 10 | 37 | 150 | 560 | 500 | | | Cal/ OSHA PEL |
| US | 2-methylcyclo- pentadienyl man- ganese tricarb- onyl | 12108- 13-3 | PEL (CA) | | 0.2 | | | | | Mn | Cal/ OSHA PEL |



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Occupational exposure limit values (Workplace Exposure Limits)

| Coun try | Name of agent | CAS No | Iden- tifier | TWA [ppm] | TWA [mg/ m ³] | STEL [ppm] | STEL [mg/ m ³] | Ceil- ing-C [ppm] | Ceil- ing-C [mg/ m ³] | Nota tion | Sourc e |
|-------------|--|------------|-----------------|---------------|---------------------------------|----------------|----------------------------------|-------------------------|--|---------------------------|-------------------------|
| US | 2-methylcyclopentadienyl manganese tricarbonyl | 12108-13-3 | REL | | 0.2 (10 h) | | | | | Mn | NIOSH REL |
| US | 2-methylcyclopentadienyl manganese tricarbonyl | 12108-13-3 | TLV® | | 0.2 | | | | | Mn, H | AC- GIH® 2023 |
| US | manganese compounds | 12108-13-3 | PEL | | | | | | 5 | Mn | 29 CFR 1910.1 000 |
| US | Kerosine - unspecified | 64742-81-0 | TLV® | | 200 | | | | | vap, Hy- Carb, H | AC- GIH® 2023 |
| US | benzene | 71-43-2 | PEL (CA) | 1 | | 5 | | | | | Cal/ OSHA PEL |
| US | benzene | 71-43-2 | PEL | 1 | | 5 | | | | | 29 CFR 1910.1 000 |
| US | benzene | 71-43-2 | REL | 0.1 (10 h) | | 1 | | | | appx- A | NIOSH REL |
| US | benzene | 71-43-2 | TLV® | 0.5 | | 2.5 | | | | H | AC- GIH® 2023 |
| US | benzene | 71-43-2 | PEL | 10 | | 50 (10 min) | | 25 | | us- pel- z2a | 29 CFR 1910.1 000 |
| US | Kerosine (petroleum) | 8008-20-6 | REL | | 100 (10 h) | | | | | | NIOSH REL |
| US | Kerosine (petroleum) (jet fuels, JP 5) | 8008-20-6 | TLV® | | 200 | | | | | vap, Hy- Carb, H | AC- GIH® 2023 |
| US | naphthalene | 91-20-3 | PEL (CA) | 0.1 | 0.5 | | | | | | Cal/ OSHA PEL |
| US | naphthalene | 91-20-3 | REL | 10 (10 h) | 50 (10 h) | 15 | 75 | | | | NIOSH REL |



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Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|---------------------------|---------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------------|
| US | naphthalene | 91-20-3 | PEL | 10 | 50 | | | | | | 29 CFR 1910.1000 |
| US | naphthalene | 91-20-3 | TLV® | 10 | | | | | | H | ACGIH® 2023 |
| US | cumene | 98-82-8 | REL | 50 (10 h) | 245 (10 h) | | | | | | NIOSH REL |
| US | cumene | 98-82-8 | TLV® | 5 | | | | | | | ACGIH® 2023 |
| 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 | NIOSH Potential Occupational Carcinogen (Appendix A) |
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| H | absorbed through the skin |
| HyCarb | calculated as hydrocarbons |
| Mn | calculated as Mn (manganese) |
| STEL | 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) |
| TWA | 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) |
| us-pel-z2a | 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. |
| vap | 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® 2023 |
| US | toluene | toluene | | BEI® | 0.02 mg/l | ACGIH® 2023 |
| US | toluene | toluene | | BEI® | 0.03 mg/l | ACGIH® 2023 |



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Biological limit values

| Country | Name of agent | Parameter | Notation | Identifier | Value | Source |
|---------|---------------|--------------------------|------------|------------|----------|-------------|
| US | toluene | o-cresol | hydr, crea | BEI® | 0.3 mg/g | ACGIH® 2023 |
| US | benzene | S-phenylmercapturic acid | crea | BEI® | 25 µg/g | ACGIH® 2023 |
| US | benzene | trans,trans-muconic acid | crea | BEI® | 500 µg/g | ACGIH® 2023 |

Notation

crea creatinine
hydr hydrolysis

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 ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Straight-run Kerosene | 64741-44-2 | DNEL | 1,501 mg/m ³ | 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), hydrodesulfurized light catalytic cracked | 68333-25-5 | DNEL | 27.3 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | DNEL | 2,230 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| Distillates (petroleum), hydrodesulfurized 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 ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Distillates (petroleum), light hydrocracked | 64741-77-1 | DNEL | 4,288 mg/m ³ | human, inhalatory | worker (industry) | acute - 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 |
|--|------------|-----------|------------------------|------------------------------------|-------------------|----------------------------|
| Distillates (petroleum), light hydro-cracked | 64741-77-1 | DNEL | 2.91 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | DNEL | 0.6 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | DNEL | 0.11 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| naphthalene | 91-20-3 | DNEL | 25 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| naphthalene | 91-20-3 | DNEL | 25 mg/m ³ | 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 ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| cumene | 98-82-8 | DNEL | 250 mg/m ³ | 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 |
| 2-ethylhexan-1-ol | 104-76-7 | DNEL | 12.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 2-ethylhexan-1-ol | 104-76-7 | DNEL | 53.2 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| 2-ethylhexan-1-ol | 104-76-7 | DNEL | 53.2 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| 2-ethylhexan-1-ol | 104-76-7 | DNEL | 23 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| toluene | 108-88-3 | DNEL | 192 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| toluene | 108-88-3 | DNEL | 384 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| toluene | 108-88-3 | DNEL | 192 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| toluene | 108-88-3 | DNEL | 384 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| toluene | 108-88-3 | DNEL | 384 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |



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Relevant DNELs of components of the mixture

| Name of sub-stance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|--------------------|----------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| ethylbenzene | 100-41-4 | DNEL | 77 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| ethylbenzene | 100-41-4 | DNEL | 293 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| ethylbenzene | 100-41-4 | DNEL | 180 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

Relevant PNECs of components of the mixture

| Name of sub-stance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|--|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | PNEC | 0.21 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | PNEC | 0.021 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | PNEC | 16 µg/kg | terrestrial organisms | soil | short-term (single instance) |
| 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 treatment plant (STP) | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 3.22 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 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) |



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Relevant PNECs of components of the mixture

| Name of sub-stance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|--------------------|----------|-----------|-----------------|------------------------|------------------------------|------------------------------|
| 2-ethylhexan-1-ol | 104-76-7 | PNEC | 0.284 mg/kg | aquatic organ-isms | freshwater sedi-ment | short-term (single instance) |
| 2-ethylhexan-1-ol | 104-76-7 | PNEC | 0.028 mg/kg | aquatic organ-isms | marine sediment | short-term (single instance) |
| 2-ethylhexan-1-ol | 104-76-7 | PNEC | 0.047 mg/kg | terrestrial organ-isms | soil | short-term (single instance) |
| benzene | 71-43-2 | PNEC | 80 µg/l | aquatic organ-isms | freshwater | short-term (single instance) |
| benzene | 71-43-2 | PNEC | 8 µg/l | aquatic organ-isms | marine water | short-term (single instance) |
| benzene | 71-43-2 | PNEC | 39 mg/l | aquatic organ-isms | sewage treatment plant (STP) | short-term (single instance) |
| benzene | 71-43-2 | PNEC | 1.36 mg/kg | aquatic organ-isms | freshwater sedi-ment | short-term (single instance) |
| benzene | 71-43-2 | PNEC | 0.136 mg/kg | aquatic organ-isms | marine sediment | short-term (single instance) |
| benzene | 71-43-2 | PNEC | 0.225 mg/kg | terrestrial organ-isms | soil | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 0.68 mg/l | aquatic organ-isms | freshwater | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 0.68 mg/l | aquatic organ-isms | marine water | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 13.61 mg/l | aquatic organ-isms | sewage treatment plant (STP) | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 16.39 mg/kg | aquatic organ-isms | freshwater sedi-ment | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 16.39 mg/kg | aquatic organ-isms | marine sediment | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 2.89 mg/kg | terrestrial organ-isms | soil | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 0.1 mg/l | aquatic organ-isms | freshwater | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 0.01 mg/l | aquatic organ-isms | marine water | short-term (single instance) |
| ethylbenzene | 100-41-4 | PNEC | 9.6 mg/l | aquatic organ-isms | sewage treatment plant (STP) | short-term (single instance) |

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|---|----------|-----------|-----------------|-----------------------|---------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance



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| | |
|----------------|-----------------------|
| Physical state | liquid |
| Color | not determined |
| Particle | not relevant (liquid) |
| Odor | characteristic |

Other safety parameters

| | |
|---|---|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | not determined |
| Flash point | 38 °C |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | not determined |
| 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 |
| Auto-ignition temperature | not determined |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |



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9.2 Other information

there is no additional information

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.

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 if swallowed.

- Acute toxicity estimate (ATE)

Inhalation: gas 3,922 ppmV/4h
Inhalation: vapor 4.126 mg/l/4h



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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 _I /4h |
| Straight-run Kerosene | 64741-44-2 | inhalation: dust/mist | >2.53 mg _I /4h |
| Distillates (petroleum), hydrodesulfurized middle | 64742-80-9 | inhalation: vapor | 11 mg _I /4h |
| Distillates (petroleum), hydrodesulfurized middle | 64742-80-9 | inhalation: dust/mist | 4.6 mg _I /4h |
| Jet A-1 | 8008-20-6 | inhalation: vapor | >5.28 mg _I /4h |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | inhalation: vapor | 11 mg _I /4h |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | inhalation: dust/mist | 4.65 mg _I /4h |
| Kerosine (petroleum), hydrodesulfurized | 64742-81-0 | inhalation: vapor | >5.28 mg _I /4h |
| Distillates (petroleum), light hydrocracked | 64741-77-1 | inhalation: vapor | 3.6 mg _I /4h |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | oral | 51.8 mg/kg |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | dermal | 140 mg/kg |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | inhalation: vapor | 0.1235 mg _I /4h |
| naphthalene | 91-20-3 | oral | 710 mg/kg |
| naphthalene | 91-20-3 | inhalation: vapor | >0.4 mg _I /4h |
| naphthalene | 91-20-3 | inhalation: dust/mist | 0.005 mg _I /4h |
| 2-ethylhexan-1-ol | 104-76-7 | inhalation: vapor | >0.89 mg _I /4h |
| toluene | 108-88-3 | inhalation: gas | 7.6 ppmV _I /4h |
| ethylbenzene | 100-41-4 | inhalation: vapor | 11 mg _I /4h |

Skin corrosion/irritation

Causes skin irritation.

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.



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Carcinogenicity

May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | CAS No | Classification | Number |
|-------------------|----------|----------------|--------|
| Propylbenzene | 98-82-8 | 2B | |
| 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 |

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 Construction Industry (29 CFR 1926.1128)
- GI §1910.1028 General Industry (29 CFR 1910.1028)
- SE §1915.1028 Shipyard Employment (29 CFR 1915.1028)

Reproductive toxicity

Suspected of damaging the unborn child.



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Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

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 |
| Jet A-1 | 8008-20-6 | LL50 | 5 mg/l | fish | 96 h |
| Jet A-1 | 8008-20-6 | EL50 | 1.4 mg/l | aquatic invertebrates | 48 h |
| Jet A-1 | 8008-20-6 | LOEL | 1 mg/l | algae | 72 h |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | LL50 | >0.3 mg/l | fish | 96 h |
| 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 |



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Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|--|------------|----------|-----------|-------------------------------------|---------------|
| Kerosine (petroleum), hydrodesulfurized | 64742-81-0 | LOEL | 1 mg/l | algae | 72 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 |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | LC50 | 0.21 mg/l | fish | 96 h |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | EC50 | 0.94 mg/l | aquatic invertebrates | 24 h |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | ErC50 | 1.7 mg/l | algae | 48 h |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | NOEC | 0.29 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 |
| cumene | 98-82-8 | NOEC | <2.9 mg/l | fish | 96 h |
| Propylbenzene | 103-65-1 | LC50 | 1.55 mg/l | rainbow trout (Oncorhynchus mykiss) | 96 h |
| Propylbenzene | 103-65-1 | EC50 | 2 mg/l | water flea (Daphnia) | 24 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 |



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Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|----------|----------|-----------|-----------------------|---------------|
| 2-ethylhexan-1-ol | 104-76-7 | ErC50 | 16.6 mg/l | algae | 72 h |
| 2-ethylhexan-1-ol | 104-76-7 | NOEC | 14 mg/l | fish | 96 h |
| benzene | 71-43-2 | LC50 | 5.3 mg/l | fish | 96 h |
| benzene | 71-43-2 | EC50 | 10 mg/l | aquatic invertebrates | 24 h |
| benzene | 71-43-2 | ErC50 | 100 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 |
| ethylbenzene | 100-41-4 | LC50 | 7 mg/l | fish | 24 h |
| ethylbenzene | 100-41-4 | EC50 | 2.4 mg/l | aquatic invertebrates | 48 h |
| ethylbenzene | 100-41-4 | NOEC | 3.3 mg/l | fish | 96 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 |
| Jet A-1 | 8008-20-6 | EL50 | 0.89 mg/l | aquatic invertebrates | 21 d |
| Jet A-1 | 8008-20-6 | LOEL | 1.2 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 |
| Distillates (petroleum), hydrodesulfurized light catalytic cracked | 68333-25-5 | NOEC | 0.038 mg/l | aquatic invertebrates | 21 d |
| Kerosine (petroleum), hydrodesulfurized | 64742-81-0 | EL50 | 0.89 mg/l | aquatic invertebrates | 21 d |



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Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|------------|----------|-------------|-----------------------|---------------|
| Kerosine (petroleum), hydrodesulfurized | 64742-81-0 | LOEL | 1.2 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 |
| naphthalene | 91-20-3 | NOEC | 0.37 mg/l | fish | 40 d |
| naphthalene | 91-20-3 | LOEC | 0.38 mg/l | fish | 40 d |
| 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 |
| cumene | 98-82-8 | NOEC | 0.38 mg/l | fish | 28 d |
| benzene | 71-43-2 | LOEC | 1.6 mg/l | fish | 32 d |
| benzene | 71-43-2 | NOEC | 0.8 mg/l | fish | 32 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 |
| toluene | 108-88-3 | LOEC | 2.77 mg/l | fish | 40 d |
| toluene | 108-88-3 | NOEC | 1.39 mg/l | fish | 40 d |
| ethylbenzene | 100-41-4 | LC50 | 3.6 mg/l | aquatic invertebrates | 7 d |
| ethylbenzene | 100-41-4 | LOEL | 1.7 mg/l | aquatic invertebrates | 7 d |
| ethylbenzene | 100-41-4 | NOEC | 0.96 mg/l | aquatic invertebrates | 7 d |
| ethylbenzene | 100-41-4 | LOEC | 1.7 mg/l | aquatic invertebrates | 7 d |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.



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12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

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

DOT UN 1268

IMDG-Code UN 1268

ICAO-TI UN 1268

14.2 UN proper shipping name

DOT Petroleum distillates, n.o.s.

IMDG-Code PETROLEUM DISTILLATES, N.O.S.

ICAO-TI Petroleum distillates, n.o.s.

14.3 Transport hazard class(es)

DOT 3



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| | |
|--|--------------------------------------|
| IMDG-Code | 3 |
| ICAO-TI | 3 |
| 14.4 Packing group | |
| DOT | III |
| IMDG-Code | III |
| ICAO-TI | III |
| 14.5 Environmental hazards | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | Jet A-1 |
| 14.6 Special precautions for user | |
| There is no additional information. | |
| 14.7 Transport in bulk according to IMO instruments | |
| 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) - Additional information

| | |
|---|--|
| Particulars in the shipper's declaration | UN1268, Petroleum distillates, n.o.s., (contains: Straight-run Kerosene, Distillates (petroleum), hydrodesulfurized middle), 3, III, environmentally hazardous |
| Reportable quantity (RQ) | 5,160 lbs (2,343 kg) (benzene) (xylene) |
| Danger label(s) | 3, fish and tree |
|   | |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 144, B1, IB3, T4, TP1, TP29 |
| ERG No | 128 |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|--|--|
| Particulars in the shipper's declaration | UN1268, PETROLEUM DISTILLATES, N.O.S., (contains: Straight-run Kerosene, Distillates (petroleum), hydrodesulfurized middle), 3, III, 38°C c.c., MARINE POLLUTANT |
| Marine pollutant | yes (hazardous to the aquatic environment) |
| Danger label(s) | 3, fish and tree |



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| | |
|--------------------------|----------|
| Special provisions (SP) | 223, 955 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| EmS | F-E, S-E |
| Stowage category | A |

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

| | |
|--|---|
| Particulars in the shipper's declaration | UN1268, Petroleum distillates, n.o.s., (contains: Straight-run Kerosene, Distillates (petroleum), hydrosulfurized middle), 3, III |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Danger label(s) | 3 |



| | |
|--------------------------|------|
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 10 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 (ACTIVE) or exempt from listing

Superfund Amendment and Reauthorization Act (SARA TITLE III)

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

| The List of Extremely Hazardous Substances and Their Threshold Planning Quantities | | | | |
|--|------------|-------|------------------------------|--------------------------------------|
| Name of substance | CAS No | Notes | Reportable quantity (pounds) | Threshold planning quantity (pounds) |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | d | 100 | 100 |

Legend

d Revised TPQ based on new or re-evaluated toxicity data, April 22, 1987.



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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 |
| Propylbenzene | 98-82-8 | | 1987-01-01 |
| 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 |
| Tricarbonyl(methylcyclopentadienyl)manganese | | | 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 2 3 4 | 10 (4,54) |
| ethylbenzene | 100-41-4 | | 1 2 3 | 1000 (454) |
| cumene | 98-82-8 | | 3 4 | 5000 (2270) |
| naphthalene | 91-20-3 | | 1 2 3 4 | 100 (45,4) |
| toluene | 108-88-3 | | 1 2 3 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.



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Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|--|------------|------------------|---------|
| benzene | 71-43-2 | A, N, O, R, T, * | |
| Tricarbonyl(methylcyclopentadienyl)manganese | 12108-13-3 | A | skin |

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 |
| skin | If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name. |
| T | National Toxicology Program (NTP) "Fifth Annual Report on Carcinogens," 1989 (NTP 89-239). Order information: (919) 541-3992 |

Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

| Name of substance | CAS No | Listed in | Special conditions | Excluded transactions | DEA - code | Concentration limit |
|-------------------|----------|-------------------|--------------------|-----------------------|------------|-------------------------|
| toluene | 108-88-3 | List II chemicals | SC-6594 | excl-trans-12 | 6594 | 35% by Weight or Volume |

Legend

| | |
|-------------------|--|
| excl-trans-12 | Excluded transactions: Domestic and import transactions in chemical mixtures that contain acetone, ethyl ether, 2-butanone, and/or toluene, unless regulated because of being formulated with other List I or List II chemical(s) above the concentration limit. |
| List II chemicals | The term "list II chemical" means a chemical (other than a list I chemical) specified by regulation of the Attorney General as a chemical that is used in manufacturing a controlled substance in violation of this subchapter. |
| SC-6594 | Exports only; Limit applies to toluene or any combination of acetone, ethyl ether, 2-butanone, methyl isobutyl ketone, and toluene if present in the mixture by summing the concentrations for each chemical. |

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.



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| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| 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).

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 2 | material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur |
| 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 | AIIC | not all ingredients are listed |
| CA | DSL | not 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 |



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| Country | Inventory | Status |
|---------|-----------|-------------------------------------|
| 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 (ACTIVE) |
| VN | NCI | not all ingredients are listed |

Legend

| | |
|------------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| 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 |
| NCI | National Chemical Inventory |
| NDSL | Non-domestic Substances List (NDSL) |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| 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

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).

Disclaimer

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