



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

Refresh Your Car Mini Diffuser Very Cherry

Version number: GHS 7.0
Replaces version of: 2020-12-02 (GHS 6)

Revision: 2021-04-12

SECTION 1: Identification

1.1 Product identifier

Trade name **Refresh Your Car Mini Diffuser Very Cherry**
Alternative number(s) 12844091342

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

Relevant identified uses Consumer use: Air Freshener

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)
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.3 | serious eye damage/eye irritation | 2A | Eye Irrit. 2A | H319 |
| A.4S | skin sensitization | 1 | Skin Sens. 1 | H317 |
| A.7 | reproductive toxicity | 2 | Repr. 2 | H361f |
| B.6 | flammable liquid | 4 | Flam. Liq. 4 | H227 |

For full text of abbreviations: see SECTION 16.



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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 warning

- Pictograms

GHS07, GHS08



- Hazard statements

| | |
|-------|--------------------------------------|
| H227 | Combustible liquid. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H361f | Suspected of damaging fertility. |

- 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. |
| P261 | Avoid breathing mist/vapors. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear protective gloves/eye protection/face protection. |
| P302+P352 | If on skin: Wash with plenty of water. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | If exposed or concerned: Get medical advice/attention. |
| P321 | Specific treatment (see on this label). |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with national regulations. |

2.2.1.7- Hazardous ingredients for labelling

Lilial, Dimethylcyclohex-3-ene-1-carbaldehyde, Benzyl salicylate

2.3 Other hazards

This material is combustible, but will not ignite readily.

Hazards not otherwise classified

Repeated exposure may cause skin dryness or cracking.
May be harmful if inhaled (GHS category 5: acutely toxic - inhalation).

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


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 |
|---------------------------------------|----------------------|-----------|---|---|
| benzaldehyde | CAS No 100-52-7 | 10 – < 25 | Acute Tox. 4 / H302 Acute Tox. 4 / H332 Flam. Liq. 4 / H227 |  |
| Hexyl Acetate | CAS No 142-92-7 | 1 – < 5 | Flam. Liq. 3 / H226 |  |
| Lilial | CAS No 80-54-6 | 1 – < 5 | Acute Tox. 4 / H302 Skin Irrit. 2 / H315 Skin Sens. 1B / H317 Repr. 2 / H361f Flam. Liq. 4 / H227 |   |
| Dimethylcyclohex-3-ene-1-carbaldehyde | CAS No 27939-60-2 | 1 – < 5 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 Flam. Liq. 4 / H227 |  |
| Phenethyl acetate | CAS No 103-45-7 | 1 – < 5 | Acute Tox. 2 / H330 Eye Dam. 1 / H318 |   |
| Benzyl salicylate | CAS No 118-58-1 | 1 – < 5 | Eye Irrit. 2 / H319 Skin Sens. 1B / H317 |  |
| α,α-dimethylphenethyl butyrate | CAS No 10094-34-5 | 1 – < 5 | Skin Irrit. 2 / H315 |  |
| isopentyl acetate | CAS No 123-92-2 | 1 – < 5 | Flam. Liq. 3 / H226 |  |

For full text of abbreviations: see SECTION 16.



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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.

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 (CO₂)

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 (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.



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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.

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.



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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

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 ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|---|----------|------------|------------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------------|
| US | isoamyl acetate | 123-92-2 | REL | 100 (10 h) | 525 (10 h) | | | | | | NIOSH REL |
| US | isoamyl acetate | 123-92-2 | PEL | 100 | 525 | | | | | | 29 CFR 1910.1000 |
| US | isoamyl acetate (3-methylbutyl acetate) | 123-92-2 | PEL (CA) | 50 | 266 | 100 | 532 | | | | Cal/ OSHA PEL |
| US | isopentyl acetate | 123-92-2 | TLV® | 50 | | 100 | | | | | ACGIH® 2019 |

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur



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Notation

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)

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 |
|---------------------------------------|------------|-----------|--------------------------|------------------------------------|-------------------|----------------------------|
| benzaldehyde | 100-52-7 | DNEL | 9.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| benzaldehyde | 100-52-7 | DNEL | 9.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| benzaldehyde | 100-52-7 | DNEL | 1.14 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | DNEL | 7.3 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | DNEL | 2.1 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | DNEL | 1,163 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| Benzyl salicylate | 118-58-1 | DNEL | 7.8 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Benzyl salicylate | 118-58-1 | DNEL | 2.21 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hexyl Acetate | 142-92-7 | DNEL | 48 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hexyl Acetate | 142-92-7 | DNEL | 14 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Phenethyl acetate | 103-45-7 | DNEL | 6.5 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Phenethyl acetate | 103-45-7 | DNEL | 2.27 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Lilial | 80-54-6 | DNEL | 0.44 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Lilial | 80-54-6 | DNEL | 1.79 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Lilial | 80-54-6 | DNEL | 410 µg/cm ² | human, dermal | worker (industry) | chronic - local effects |
| Lilial | 80-54-6 | DNEL | 410 µg/cm ² | human, dermal | worker (industry) | acute - local 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 |
|---|------------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| α,α -dimethylphenethyl butyrate | 10094-34-5 | DNEL | 4.4 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| α,α -dimethylphenethyl butyrate | 10094-34-5 | DNEL | 8.33 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

Relevant PNECs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|---------------------------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| benzaldehyde | 100-52-7 | PNEC | 0.011 mg/l | aquatic organisms | water | intermittent release |
| benzaldehyde | 100-52-7 | PNEC | 0 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 7.59 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0.004 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| benzaldehyde | 100-52-7 | PNEC | 0.001 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | PNEC | 0.008 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | PNEC | 0.001 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | PNEC | 13.8 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | PNEC | 0.152 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | PNEC | 0.015 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | PNEC | 0.023 mg/kg | terrestrial organisms | soil | short-term (single instance) |



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| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Benzyl salicylate | 118-58-1 | PNEC | 0.0103 mg/l | aquatic organisms | water | intermittent release |
| Benzyl salicylate | 118-58-1 | PNEC | 80 mg/kg | aquatic organisms | water | short-term (single instance) |
| Benzyl salicylate | 118-58-1 | PNEC | 0.001 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Benzyl salicylate | 118-58-1 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Benzyl salicylate | 118-58-1 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Benzyl salicylate | 118-58-1 | PNEC | 0.583 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Benzyl salicylate | 118-58-1 | PNEC | 0.058 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Benzyl salicylate | 118-58-1 | PNEC | 1.41 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Hexyl Acetate | 142-92-7 | PNEC | 0.044 mg/l | aquatic organisms | water | intermittent release |
| Hexyl Acetate | 142-92-7 | PNEC | 0.004 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Hexyl Acetate | 142-92-7 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Hexyl Acetate | 142-92-7 | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Hexyl Acetate | 142-92-7 | PNEC | 0.144 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Hexyl Acetate | 142-92-7 | PNEC | 0.014 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Hexyl Acetate | 142-92-7 | PNEC | 0.026 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Phenethyl acetate | 103-45-7 | PNEC | 0.105 mg/l | aquatic organisms | water | intermittent release |
| Phenethyl acetate | 103-45-7 | PNEC | 0.011 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Phenethyl acetate | 103-45-7 | PNEC | 0.001 mg/l | aquatic organisms | marine water | 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 |
|--------------------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Phenethyl acetate | 103-45-7 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Phenethyl acetate | 103-45-7 | PNEC | 0.128 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Phenethyl acetate | 103-45-7 | PNEC | 0.013 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Phenethyl acetate | 103-45-7 | PNEC | 0.019 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| isopentyl acetate | 123-92-2 | PNEC | 0.011 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| isopentyl acetate | 123-92-2 | PNEC | 0.001 mg/l | aquatic organisms | marine water | short-term (single instance) |
| isopentyl acetate | 123-92-2 | PNEC | 30 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| isopentyl acetate | 123-92-2 | PNEC | 0.335 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| isopentyl acetate | 123-92-2 | PNEC | 0.034 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| isopentyl acetate | 123-92-2 | PNEC | 0.06 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.024 mg/l | aquatic organisms | water | intermittent release |
| Lilial | 80-54-6 | PNEC | 0.004 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.528 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.053 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Lilial | 80-54-6 | PNEC | 0.103 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| α,α-dimethylphenethyl butyrate | 10094-34-5 | PNEC | 4.766 µg/l | aquatic organisms | freshwater | short-term (single instance) |

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|---|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| α,α -dimethylphenethyl butyrate | 10094-34-5 | PNEC | 31.25 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| α,α -dimethylphenethyl butyrate | 10094-34-5 | PNEC | 0.189 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| α,α -dimethylphenethyl butyrate | 10094-34-5 | PNEC | 0.103 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.

- Type of material

PVA: polyvinyl alcohol, Nitrile

- Material thickness

>0.5 mm

- Breakthrough times of the glove material

>120 minutes (permeation: level 4)

- 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 | red |
| Odor | Conforms to standard |

Other safety parameters

| | |
|---|---|
| pH (value) | 3 |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 142.5 °C at 1,013 hPa |
| Flash point | 62 °C |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 8.5 kPa at 25 °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 |
| Auto-ignition temperature | 192 °C |
| Viscosity | not determined |
| Explosive properties | none |



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| | |
|----------------------|------|
| Oxidizing properties | none |
|----------------------|------|

9.2 Other information

| | |
|--|---|
| Temperature class (USA, acc. to NEC 500) | T3A (maximum permissible surface temperature on the equipment: 180°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.

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

Shall not be classified as acutely toxic.



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GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|-------------------|----------|-----------------------|---------------|
| benzaldehyde | 100-52-7 | oral | 1,430 mg/kg |
| benzaldehyde | 100-52-7 | inhalation: vapor | 11 mg/l/4h |
| benzaldehyde | 100-52-7 | inhalation: dust/mist | 1.5 mg/l/4h |
| Phenethyl acetate | 103-45-7 | inhalation: vapor | 0.766 mg/l/4h |
| Lilial | 80-54-6 | oral | 1,390 mg/kg |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging fertility.

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

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.



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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 |
| benzaldehyde | 100-52-7 | LC50 | 12.4 mg/l | fish | 96 h |
| benzaldehyde | 100-52-7 | EC50 | 19.7 mg/l | aquatic invertebrates | 48 h |
| benzaldehyde | 100-52-7 | ErC50 | 33.1 mg/l | algae | 72 h |
| benzaldehyde | 100-52-7 | growth (EbCx) 10% | 18.3 mg/l | aquatic invertebrates | 48 h |
| benzaldehyde | 100-52-7 | growth rate (ErCx) 10% | 0.039 mg/l | algae | 72 h |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | LC50 | 15 mg/l | fish | 96 h |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | EC50 | 7.74 mg/l | aquatic invertebrates | 48 h |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | ErC50 | 22.8 mg/l | algae | 72 h |
| Dimethylcyclohex-3-ene-1-carbaldehyde | 27939-60-2 | NOEC | 3.83 mg/l | algae | 72 h |
| Benzyl salicylate | 118-58-1 | LC50 | 1.03 mg/l | fish | 96 h |
| Benzyl salicylate | 118-58-1 | EC50 | 1.21 mg/l | aquatic invertebrates | 24 h |
| Benzyl salicylate | 118-58-1 | ErC50 | 1.29 mg/l | algae | 72 h |
| Benzyl salicylate | 118-58-1 | NOEC | 0.894 mg/l | aquatic invertebrates | 48 h |
| Hexyl Acetate | 142-92-7 | EC50 | 9.1 mg/l | aquatic invertebrates | 48 h |
| Hexyl Acetate | 142-92-7 | ErC50 | 12 mg/l | algae | 72 h |
| Hexyl Acetate | 142-92-7 | NOEC | 0.84 mg/l | aquatic invertebrates | 48 h |
| Phenethyl acetate | 103-45-7 | LC50 | 10.5 mg/l | fish | 96 h |
| Phenethyl acetate | 103-45-7 | EC50 | 36.6 mg/l | aquatic invertebrates | 48 h |
| Phenethyl acetate | 103-45-7 | ErC50 | 40 mg/l | algae | 72 h |
| Phenethyl acetate | 103-45-7 | NOEC | 4.4 mg/l | algae | 72 h |



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Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|------------|---------------------------|------------|-----------------------|---------------|
| Phenethyl acetate | 103-45-7 | LOEC | 16 mg/l | algae | 72 h |
| isopentyl acetate | 123-92-2 | LC50 | 11.1 mg/l | fish | 96 h |
| isopentyl acetate | 123-92-2 | EC50 | 47.5 mg/l | aquatic invertebrates | 24 h |
| Lilial | 80-54-6 | LC50 | 2.04 mg/l | fish | 96 h |
| Lilial | 80-54-6 | EC50 | 10.7 mg/l | aquatic invertebrates | 48 h |
| Lilial | 80-54-6 | ErC50 | 29.16 mg/l | algae | 72 h |
| Lilial | 80-54-6 | NOEC | 1.28 mg/l | fish | 96 h |
| Lilial | 80-54-6 | growth rate (ErCx) 10% | 1.696 mg/l | algae | 72 h |
| α,α -dimethylphenethyl butyrate | 10094-34-5 | EC50 | 21.3 mg/l | aquatic invertebrates | 24 h |
| α,α -dimethylphenethyl butyrate | 10094-34-5 | growth (EbCx) 10% | 12.2 mg/l | aquatic invertebrates | 24 h |

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|----------|----------|-------------|-----------------------|---------------|
| benzaldehyde | 100-52-7 | EC50 | 50 mg/l | aquatic invertebrates | 24 h |
| benzaldehyde | 100-52-7 | LOEC | 0.9 mg/l | fish | 7 d |
| benzaldehyde | 100-52-7 | NOEC | 0.22 mg/l | fish | 7 d |
| Benzyl salicylate | 118-58-1 | EC50 | 1.21 mg/l | aquatic invertebrates | 24 h |
| Benzyl salicylate | 118-58-1 | LC50 | 4.34 mg/l | aquatic invertebrates | 24 h |
| Hexyl Acetate | 142-92-7 | EC50 | 1,000 mg/l | microorganisms | 30 min |
| Hexyl Acetate | 142-92-7 | NOEC | 100 mg/l | microorganisms | 30 min |
| Phenethyl acetate | 103-45-7 | EC50 | >1,000 mg/l | microorganisms | 3 h |
| Phenethyl acetate | 103-45-7 | NOEC | 100 mg/l | microorganisms | 3 h |
| isopentyl acetate | 123-92-2 | NOEC | 300 mg/l | microorganisms | 30 min |

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Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|--------------------------------|------------|-------------------|------------|----------------|---------------|
| isopentyl acetate | 123-92-2 | growth (EbCx) 20% | 650 mg/l | microorganisms | 30 min |
| Lilial | 80-54-6 | NOEC | >200 µg/l | fish | 21 d |
| Lilial | 80-54-6 | growth (EbCx) 10% | >100 mg/l | microorganisms | 180 min |
| α,α-dimethylphenethyl butyrate | 10094-34-5 | EC50 | 684 mg/l | microorganisms | 3 h |
| α,α-dimethylphenethyl butyrate | 10094-34-5 | NOEC | 312.5 mg/l | microorganisms | 3 h |
| α,α-dimethylphenethyl butyrate | 10094-34-5 | LOEC | 1,000 mg/l | microorganisms | 3 h |

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 Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.

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.



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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 3082 |
| IMDG-Code | UN 3082 |
| ICAO-TI | UN 3082 |

14.2 UN proper shipping name

| | |
|--|--|
| DOT | Environmentally hazardous substance, liquid, n.o.s. |
| IMDG-Code | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| ICAO-TI | Environmentally hazardous substance, liquid, n.o.s. |
| Technical name (hazardous ingredients) | 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde |

14.3 Transport hazard class(es)

| | |
|-----------|---|
| DOT | 9 |
| IMDG-Code | 9 |
| ICAO-TI | 9 |

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) | 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde |

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.

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Information for each of the UN Model Regulations

Not regulated when carried in single or combination packaging containing a net quantity of 5L or less or 5 kg or less per the following:
DOT: 171.4(2)
ADR: SP 375
IMDG: 2.10.2.7
IATA: special provision A197, DOT

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

| | |
|--|---|
| Particulars in the shipper's declaration | UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III |
| Reportable quantity (RQ) | 471,698 lbs (214,151 kg) (isopentyl acetate) |
| Danger label(s) | 9, fish and tree |



| | |
|-------------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 8, 146, 173, 335, IB3, T4, TP1, TP29 |
| ERG No | 171 |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|--|---|
| Particulars in the shipper's declaration | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III |
| Marine pollutant | yes (hazardous to the aquatic environment) (2-t-Butylcyclohexyl Acetate) |
| Danger label(s) | 9, fish and tree |



| | |
|--------------------------|---------------|
| Special provisions (SP) | 274, 335, 969 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 L |
| EmS | F-A, S-F |
| Stowage category | A |



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

Particulars in the shipper's declaration

UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III

Environmental hazards

yes (hazardous to the aquatic environment)

Danger label(s)

9, fish and tree



Special provisions (SP)

A97, A158, A197

Excepted quantities (EQ)

E1

Limited quantities (LQ)

30 kg

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

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

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) |
|-------------------|----------|---------|----------------|----------------------|
| isopentyl acetate | 123-92-2 | | 1 | 5000 (2270) |

Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act

none of the ingredients are listed

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

none of the ingredients are listed



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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 |
|-------------------|----------|------------------|--------------------|-----------------------|------------|-------------------------|
| benzaldehyde | 100-52-7 | List I chemicals | | | 8256 | 50% by Weight or Volume |

Legend

List I chemicals The term "list I chemical" means a chemical specified by regulation of the Attorney General as a chemical that is used in manufacturing a controlled substance in violation of this subchapter and is important to the manufacture of the controlled substances.

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 | 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 | | |



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National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| AU | AICS | all ingredients are listed |
| CA | DSL | 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 | 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 |
| 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.



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

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 2.1 | | Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200): change in the listing (table) | yes |
| 2.1 | | The most important adverse physicochemical, human health and environmental effects: The product is combustible and can be ignited by potential ignition sources. | yes |
| 2.2 | - Signal word: danger | - Signal word: warning | yes |
| 2.2 | | - Pictograms: change in the listing (table) | yes |
| 2.2 | | - Hazard statements: change in the listing (table) | yes |
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 2.3 | | Hazards not otherwise classified: change in the listing (table) | yes |
| 2.3 | Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 4.1 | Following skin contact: Rinse skin with water/shower. | Following skin contact: Wash with plenty of soap and water. | yes |
| 5.1 | Suitable extinguishing media: Water, Foam, ABC-powder | Suitable extinguishing media: Water spray, BC-powder, Carbon dioxide (CO2) | yes |
| 5.2 | Special hazards arising from the substance or mixture: Deposited combustible dust has considerable explosion potential. | 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. | yes |
| 6.3 | Advice on how to contain a spill: Covering of drains, Take up mechanically | Advice on how to contain a spill: Covering of drains | yes |

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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 6.3 | Advice on how to clean up a spill: Take up mechanically. | 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 | yes |
| 6.3 | | Appropriate containment techniques: Use of adsorbent materials. | yes |
| 7.1 | - Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment. | - 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. | yes |
| 7.1 | Specific notes/details: Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion. | 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. | yes |
| 7.2 | - Explosive atmospheres: Removal of dust deposits. | - Explosive atmospheres: Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight. | yes |
| 7.2 | | - 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. | yes |
| 7.2 | - 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. | - Ventilation requirements: Use local and general ventilation. Ground/bond container and receiving equipment. | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 8.2 | Respiratory protection: Particulate filter device (EN 143). | Respiratory protection: In case of inadequate ventilation wear respiratory protection. | yes |
| 9.1 | Physical state: solid | Physical state: liquid | yes |



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|---------|--|--|-----------------|
| 9.1 | Flammability (solid, gas): this material is combustible, but will not ignite readily | Flammability (solid, gas): not relevant, (fluid) | yes |
| 9.1 | Explosion limits of dust clouds: not determined | | yes |
| 9.1 | Auto-ignition temperature | Auto-ignition temperature: 192 °C | yes |
| 9.1 | Viscosity: not relevant (solid matter) | Viscosity: not determined | yes |
| 10.1 | Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". | Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition. | yes |
| 10.1 | | If heated: Risk of ignition | yes |
| 10.4 | Conditions to avoid: There are no specific conditions known which have to be avoided. | Conditions to avoid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. | yes |
| 10.4 | Hints to prevent fire or explosion: The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion. | Hints to prevent fire or explosion: Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. | yes |
| 11.1 | Acute toxicity: Toxic if inhaled. | Acute toxicity: Shall not be classified as acutely toxic.GHS of the United Nations, annex 4: May be harmful if inhaled. | yes |
| 11.1 | | - Acute toxicity estimate (ATE): change in the listing (table) | yes |
| 11.1 | | Acute toxicity estimate (ATE) of components of the mixture: change in the listing (table) | yes |
| 12.7 | Other adverse effects | Other adverse effects: Data are not available. | yes |
| 13.1 | | Waste treatment-relevant information: Solvent reclamation/regeneration. | yes |
| 14.1 | UN number: 3077 | UN number | yes |
| 14.1 | | DOT: UN 3082 | yes |



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|---------|---|--|-----------------|
| 14.1 | | IMDG-Code: UN 3082 | yes |
| 14.1 | | ICAO-TI: UN 3082 | yes |
| 14.2 | UN proper shipping name: Environmentally hazardous substance, solid, n.o.s. | UN proper shipping name | yes |
| 14.2 | | DOT: Environmentally hazardous substance, liquid, n.o.s. | yes |
| 14.2 | | IMDG-Code: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S. | yes |
| 14.2 | | ICAO-TI: Environmentally hazardous substance, liquid, n.o.s. | yes |
| 14.3 | Class: 9 (environmentally hazardous) | | yes |
| 14.3 | | DOT: 9 | yes |
| 14.3 | | IMDG-Code: 9 | yes |
| 14.3 | | ICAO-TI: 9 | yes |
| 14.4 | Packing group: III (substance presenting low danger) | Packing group | yes |
| 14.4 | | DOT: III | yes |
| 14.4 | | IMDG-Code: III | yes |
| 14.4 | | ICAO-TI: III | yes |
| 14.7 | Index number: 3077 | | yes |
| 14.7 | Proper shipping name: Environmentally hazardous substance, solid, n.o.s. | | yes |



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|---------|---|--|-----------------|
| 14.7 | Particulars in the shipper's declaration: UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III | Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III | yes |
| 14.7 | Class: 9 | | yes |
| 14.7 | Packing group: III | | yes |
| 14.7 | Special provisions (SP): 8, 146, 335, 384, A112, B54, B120, IB8, IP3, N20, N91, T1, TP33 | Special provisions (SP): 8, 146, 173, 335, IB3, T4, TP1, TP29 | yes |
| 14.7 | UN number: 3077 | | yes |
| 14.7 | Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. | | yes |
| 14.7 | Class: 9 | | yes |
| 14.7 | Packing group: III | | yes |
| 14.7 | Particulars in the shipper's declaration: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III | Particulars in the shipper's declaration: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III | yes |
| 14.7 | Marine pollutant: yes (hazardous to the aquatic environment) | Marine pollutant: yes (hazardous to the aquatic environment) (2-t-Butylcyclohexyl Acetate) | yes |
| 14.7 | Special provisions (SP): 274, 335, 966, 967, 969 | Special provisions (SP): 274, 335, 969 | yes |
| 14.7 | Limited quantities (LQ): 5 kg | Limited quantities (LQ): 5 L | yes |
| 14.7 | UN number: 3077 | | yes |
| 14.7 | Proper shipping name: Environmentally hazardous substance, solid, n.o.s. | | yes |
| 14.7 | Class: 9 | | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 14.7 | Packing group: III | | yes |
| 14.7 | Particulars in the shipper's declaration: UN3077, Environmentally hazardous substance, solid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III | Particulars in the shipper's declaration: UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: 2-t-Butylcyclohexyl Acetate, Dimethylcyclohex-3-ene-1-carbaldehyde), 9, III | yes |
| 14.7 | Special provisions (SP): A97, A158, A179, A197 | Special provisions (SP): A97, A158, A197 | yes |
| 15.1 | Right to Know Hazardous Substance List | | yes |
| 15.1 | Cleaning Product Right to Know Act Substance List (CA-RTK) | | yes |
| 15.1 | | Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table) | yes |
| 15.1 | Toxic or Hazardous Substance List (MA-TURA) | | yes |
| 15.1 | | Toxic or Hazardous Substance List (MA-TURA): change in the listing (table) | yes |
| 15.1 | Hazardous Substances List (MN-ERTK) | | yes |
| 15.1 | | Hazardous Substances List (MN-ERTK): change in the listing (table) | yes |
| 15.1 | Hazardous Substance List (NJ-RTK) | | yes |
| 15.1 | | Hazardous Substance List (NJ-RTK): change in the listing (table) | yes |
| 15.1 | Hazardous Substance List (Chapter 323) (PA-RTK) | | yes |
| 15.1 | | Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table) | yes |
| 15.1 | Hazardous Substance List (RI-RTK) | | yes |
| 15.1 | | Hazardous Substance List (RI-RTK): change in the listing (table) | yes |
| 15.1 | | Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, para- graphs 34 (list I) and 35 (list II) | yes |
| 15.1 | | Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, para- graphs 34 (list I) and 35 (list II): change in the listing (table) | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---------------------------|--|-----------------|
| 15.1 | | NPCA-HMIS® III: change in the listing (table) | yes |
| 15.1 | | NFPA® 704: change in the listing (table) | yes |

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® 2019 | From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox. | Acute toxicity |
| ATE | Acute Toxicity Estimate |
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEA | Drug Enforcement Administration |
| 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 |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| 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 |



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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | 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 |
| LOEC | Lowest Observed Effect Concentration |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |
| NOEC | No Observed Effect Concentration |
| 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 |
| Repr. | Reproductive toxicity |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| STEL | Short-term exposure limit |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |



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| Abbr. | Descriptions of used abbreviations |
|-------|--|
| 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 |
|-------|--------------------------------------|
| H226 | Flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H361f | Suspected of damaging fertility. |

Disclaimer

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