

WABAM Nitro

Version number: GHS 2.0
Replaces version of: 2023-02-09 (GHS 1)

Revision: 2023-03-03

SECTION 1: Identification

1.1 Product identifier

Trade name **WABAM Nitro**

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

Relevant identified uses Professional use
Industrial use

Uses advised against Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

1.3 Details of the supplier of the safety data sheet

WABAM a brand of Supply Zone, LLC
620 Wacker Drive
Hartford WI 53027
262-573-3016

sales@thesupplyzone.com

1.4 Emergency telephone number

Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500
24 hr emergency information

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.2 | skin corrosion/irritation | 1B | Skin Corr. 1B | H314 |
| A.3 | serious eye damage/eye irritation | 1 | Eye Dam. 1 | H318 |
| A.4S | skin sensitization | 1 | Skin Sens. 1 | H317 |
| B.6 | flammable liquid | 3 | Flam. Liq. 3 | H226 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.
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, GHS05,
GHS07



- Hazard statements

H226 Flammable liquid and vapor.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.



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- Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed. |
| 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. |
| P260 | Do not breathe dust/fume/gas/mist/vapors/spray. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P330+P331 | If swallowed: Rinse mouth. Do NOT induce vomiting. |
| 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. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a poison center/doctor. |
| P321 | Specific treatment (see on this label). |
| 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 local/regional/national/international regulations. |

- Hazardous ingredients for labelling Dicoco alkylidimethyl ammonium chlorides, Grapefruit oil

2.3 Other hazards

Hazards not otherwise classified

Contains Grapefruit oil. May produce an allergic reaction.
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

| Hazardous ingredients acc. to GHS | | | | |
|-----------------------------------|---------------------|------------|---|-------|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
| Grapefruit oil | CAS No 8016-20-4 | ≥ 0.1 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 Flam. Liq. 3 / H226 HNOC008 | |



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| Hazardous ingredients acc. to GHS | | | | |
|--|------------------------------------|-----------|---|-------|
| Name of substance | Identifier | Wt% | Classification acc. to GHS | Notes |
| Dicoco alkyldimethyl ammonium chlorides | CAS No 61789-77-3 68391-05-9 | 15 - < 25 | Acute Tox. 4 / H302 Acute Tox. 2 / H330 Skin Corr. 1B / H314 Eye Dam. 1 / H318 HNOC008 | |
| 2-butoxy-1-ethanol | CAS No 111-76-2 | 12 - < 20 | Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Flam. Liq. 4 / H227 | |
| isopropyl alcohol | CAS No 67-63-0 | 1 - < 20 | Eye Irrit. 2 / H319 STOT SE 3 / H336 Flam. Liq. 2 / H225 HNOC001 | |
| Terpenes & Terpenoids, grapefruit oil | CAS No 68917-32-8 | 1 - < 20 | Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 STOT SE 3 / H335 Flam. Liq. 3 / H226 HNOC008 | |

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.
This table, if present, includes all GHS classified ingredients present above their cut-off limits, even if the finished product is not classified as hazardous by GHS.

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.

Following ingestion

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

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

none 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.



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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

If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill
Covering of drains

Advice on how to clean up a spill
Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques
Use of adsorbent materials.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

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

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

- Specific notes/details

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

Advice on general occupational hygiene

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



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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.

Control of the effects

Protect against external exposure, such as

frost

- 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 | 2-butoxyethanol | 111-76-2 | REL | 5 (10 h) | 24 (10 h) | | | | | | NIOSH REL |
| US | 2-butoxyethanol | 111-76-2 | TLV® | 20 | | | | | | | ACGIH® 2019 |
| US | 2-butoxyethanol | 111-76-2 | PEL | 50 | 240 | | | | | | 29 CFR 1910.1000 |
| US | 2-butoxyethanol (EGBE) (glycol monobutyl ether) | 111-76-2 | PEL (CA) | 20 | 97 | | | | | | Cal/OSHA PEL |
| US | 2-propanol | 67-63-0 | TLV® | 200 | | 400 | | | | | ACGIH® 2019 |
| US | isopropyl alcohol | 67-63-0 | PEL (CA) | 400 | 980 | 500 | 1,225 | | | | Cal/OSHA PEL |
| US | isopropyl alcohol | 67-63-0 | REL | 400 (10 h) | 980 (10 h) | 500 | 1,225 | | | | NIOSH REL |
| US | isopropyl alcohol | 67-63-0 | PEL | 400 | 980 | | | | | | 29 CFR 1910.1000 |



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Notation

Ceiling-C
STEL

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

| Biological limit values | | | | | | |
|-------------------------|-----------------|-------------------------|------------|------------|----------|-------------|
| Country | Name of agent | Parameter | Notation | Identifier | Value | Source |
| US | 2-butoxyethanol | Butoxyacetic acid (BAA) | hydr, crea | BEI® | 200 mg/g | ACGIH® 2019 |
| US | isopropanol | acetone | | BEI® | 40 mg/l | ACGIH® 2019 |

Notation

crea
hydr

creatinine
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 |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | DNEL | 27 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | DNEL | 13 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 2-butoxy-1-ethanol | 111-76-2 | DNEL | 75 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| 2-butoxy-1-ethanol | 111-76-2 | DNEL | 98 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 2-butoxy-1-ethanol | 111-76-2 | DNEL | 1,091 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| 2-butoxy-1-ethanol | 111-76-2 | DNEL | 246 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| isopropyl alcohol | 67-63-0 | DNEL | 500 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| isopropyl alcohol | 67-63-0 | DNEL | 888 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 |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | PNEC | 13 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | PNEC | 1.3 µg/l | aquatic organisms | marine water | short-term (single instance) |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | PNEC | 1.2 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | PNEC | 8.8 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |



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| Relevant PNECs of components of the mixture | | | | | | |
|---|--------------------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | PNEC | 0.88 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | PNEC | 7 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 463 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 35 mg/kg | benthic organisms | sediment | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 9.1 mg/l | aquatic organisms | water | intermittent release |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 8.8 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 0.88 mg/l | aquatic organisms | marine water | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 463 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 35 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 3.5 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| 2-butoxy-1-ethanol | 111-76-2 | PNEC | 2.3 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 2,251 mg/l | microorganisms | sewage treatment plant (STP) | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 552 mg/kg | benthic organisms | sediment | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 552 mg/kg | pelagic organisms | sediment | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 160 mg/kg | (top) predators | water | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 141 mg/l | aquatic organisms | water | intermittent release |
| isopropyl alcohol | 67-63-0 | PNEC | 141 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 141 mg/l | aquatic organisms | marine water | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 2,251 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 552 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 552 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| isopropyl alcohol | 67-63-0 | PNEC | 28 mg/kg | terrestrial organisms | soil | short-term (single instance) |



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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.

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

| | |
|----------------|--------------------------|
| Physical state | liquid |
| Color | fluorescent yellow-green |
| Particle | not relevant (liquid) |
| Odor | citrus |

Other safety parameters

| | |
|---|-----------------------------------|
| pH (value) | 6 – 8 (25 °C) |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 82 °C |
| Flash point | 42 °C at 101 kPa |
| Evaporation rate | Not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 4.3 kPa at 20 °C |
| Density | 0.96 g/ml |
| Vapor density | this information is not available |



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Solubility(ies)

| | |
|--------------------|----------------------------|
| - Water solubility | miscible in any proportion |
|--------------------|----------------------------|

Partition coefficient

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

| | |
|---------------------------|--|
| Auto-ignition temperature | 225 °C (auto-ignition temperature (liquids and gases)) |
|---------------------------|--|

| | |
|-----------|----------------|
| Viscosity | not determined |
|-----------|----------------|

| | |
|----------------------|------|
| Explosive properties | none |
|----------------------|------|

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

9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

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

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

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

Hints to prevent fire or explosion

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

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

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



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

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

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

Acute toxicity

Shall not be classified as acutely toxic.

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

| Acute toxicity estimate (ATE) of components of the mixture | | | |
|--|--------------------------|-----------------------|--------------|
| Name of substance | CAS No | Exposure route | ATE |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | oral | 930 mg/kg |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | inhalation: dust/mist | 0.22 mg/l/4h |
| 2-butoxy-1-ethanol | 111-76-2 | oral | 1,414 mg/kg |
| 2-butoxy-1-ethanol | 111-76-2 | inhalation: vapor | 11 mg/l/4h |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

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.

| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans | | | | |
|---|----------|----------------|---------|--------|
| Name of substance | CAS No | Classification | Remarks | Number |
| 2-butoxy-1-ethanol | 111-76-2 | 3 | | |
| isopropyl alcohol | 67-63-0 | 3 | | |

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

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



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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.

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 |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | LC50 | 0.32 mg/l | fish | 24 h |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | ErC50 | 0.39 mg/l | algae | 72 h |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | EC50 | 0.15 mg/l | algae | 72 h |
| 2-butoxy-1-ethanol | 111-76-2 | LC50 | 1,474 mg/l | fish | 96 h |
| 2-butoxy-1-ethanol | 111-76-2 | EC50 | 1,550 mg/l | aquatic invertebrates | 48 h |
| 2-butoxy-1-ethanol | 111-76-2 | ErC50 | 1,840 mg/l | algae | 72 h |
| isopropyl alcohol | 67-63-0 | LC50 | 10,000 mg/l | fish | 96 h |

| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|--------------------------|----------|--------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Dicoco alkyldimethyl ammonium chlorides | 61789-77-3 68391-05-9 | EC50 | 68 mg/l | microorganisms | 3 h |
| 2-butoxy-1-ethanol | 111-76-2 | EC50 | 297 mg/l | aquatic invertebrates | 21 d |
| isopropyl alcohol | 67-63-0 | LC50 | >10,000 mg/l | aquatic invertebrates | 24 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

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 $\geq 0,1\%$.



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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 2920 |
| IMDG-Code | UN 2920 |
| ICAO-TI | UN 2920 |

14.2 UN proper shipping name

| | |
|--|--|
| DOT | Corrosive liquid, flammable, n.o.s. |
| IMDG-Code | CORROSIVE LIQUID, FLAMMABLE, N.O.S. |
| ICAO-TI | Corrosive liquid, flammable, n.o.s. |
| Technical name (hazardous ingredients) | Dicoco alkyldimethyl ammonium chlorides, isopropyl alcohol |

14.3 Transport hazard class(es)

| | |
|-----------|-------|
| DOT | 8 (3) |
| IMDG-Code | 8 (3) |
| ICAO-TI | 8 (3) |

14.4 Packing group

| | |
|-----------|----|
| DOT | II |
| IMDG-Code | II |
| ICAO-TI | II |

14.5 Environmental hazards

| | |
|---|---|
| | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | Dicoco alkyldimethyl ammonium chlorides |

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.


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Information for each of the UN Model Regulations

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

| | |
|--|---|
| Particulars in the shipper's declaration | UN2920, Corrosive liquid, flammable, n.o.s., (contains: Dicoco alkyldimethyl ammonium chlorides, isopropyl alcohol), 8 (3), II, environmentally hazardous |
| Reportable quantity (RQ) | 172,413,793 lbs (78,275,862 kg) (diethanolamine) |
| Danger label(s) | 8+3, fish and tree |
| |  |
| Environmental hazards | YES (hazardous to the aquatic environment) |
| Special provisions (SP) | B2, IB2, T11, TP2, TP27 |
| ERG No | 132 |

International Maritime Dangerous Goods Code (IMDG)

| | |
|--------------------------|---|
| Marine pollutant | YES (hazardous to the aquatic environment) (dimethylditetradecylazanium chloride) |
| Danger label(s) | 8+3, fish and tree |
| |  |
| Special provisions (SP) | 274 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| EmS | F-E, S-C |
| Stowage category | C |

International Civil Aviation Organization (ICAO-IATA/DGR)

| | |
|--------------------------|---|
| Environmental hazards | YES (hazardous to the aquatic environment) |
| Danger label(s) | 8+3 |
| |  |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 0,5 L |

SECTION 15: Regulatory information

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

National regulations (United States)

Toxic Substance Control Act (TSCA) all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

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

none of the ingredients are listed



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- Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings | | | |
|--|---------|---|----------------|
| Name of substance | CAS No | Remarks | Effective date |
| isopropyl alcohol | 67-63-0 | only persons who manufacture by the strong acid process are subject, supplier notification not required | 1986-12-31 |

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

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

| Name of substance | CAS No | Functionality | Authoritative Lists |
|--|--------------------------|--------------------|------------------------|
| water | 7732-18-5 | solvent | |
| Dicoco alkyl dimethyl ammonium chlorides | 61789-77-3 68391-05-9 | surfactant | |
| 2-butoxy-1-ethanol | 111-76-2 | co-solvent | OEHA RELs |
| propylene glycol | 57-55-6 | humectant | |
| isopropyl alcohol | 67-63-0 | alcohols | OEHA RELs |
| Terpenes & Terpenoids, grapefruit oil | 68917-32-8 | fragrance | |
| amines, dicoco alkyl | 61789-76-2 | surfactant | |
| Grapefruit oil | 8016-20-4 | fragrance | |
| Ethyl methylphenylglycidate | 77-83-8 | fragrance | |
| beta-lonone | 14901-07-6 | fragrance | |
| benzyl benzoate | 120-51-4 | fragrance | EU Fragrance Allergens |
| 4-(p-Hydroxyphenyl)-2-butanone | 5471-51-2 | fragrance | |
| Allyl heptanoate | 142-19-8 | fragrance | |
| triethanolamine | 102-71-6 | pH adjusting agent | |
| citral | 5392-40-5 | fragrance | |
| β -pinene | 127-91-3 | fragrance | |
| Tangerine oil | 8016-85-1 | fragrance | |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|--------------------|---------|----------|-----------------|---------------------|------------------------------------|
| 2-butoxy-1-ethanol | | 1022 | | | 1.0 % |
| isopropyl alcohol | 67-63-0 | | | | 1.0 % |



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- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|--------------------|----------|------------|---------|
| 2-butoxy-1-ethanol | 111-76-2 | A, O | skin |
| isopropyl alcohol | 67-63-0 | A, N, O | |

Legend

- 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
- skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|--------------------|----------|---------|-----------------|
| 2-butoxy-1-ethanol | 111-76-2 | | CA F2 |
| isopropyl alcohol | 67-63-0 | | F3 |

Legend

- CA Carcinogenic
- F2 Flammable - Second Degree
- F3 Flammable - Third Degree

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

| Name acc. to inventory | CAS No | Classification |
|------------------------|----------|----------------|
| ETHANOL, 2-BUTOXY- | 111-76-2 | |
| 2-PROPANOL | 67-63-0 | E |

Legend

- E Environmental hazard

- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|--------------------|----------|------------|
| 2-butoxy-1-ethanol | 111-76-2 | T |
| isopropyl alcohol | 67-63-0 | T, F |

Legend

- F Flammability (NFPA®)
- T Toxicity (ACGIH®)

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

| Proposition 65 List of chemicals | | | | |
|----------------------------------|----------|--------------|---------|----------------------|
| Name acc. to inventory | CAS No | Conc. | Remarks | Type of the toxicity |
| diethanolamine | 111-42-2 | 0.000058 wt% | | cancer |



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VOC content

- Regulated Volatile Organic Compounds (VOC-EPA) 28 %
- Regulated Volatile Organic Compounds (VOC-Cal ARB) 28 %

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 | 3 | major injury likely unless prompt action is taken and medical treatment is given |
| 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 | - | |

Chronic: chronic hazard
Flammability: flammability hazards
Health: health hazard
Personal protection: personal protective equipment (PPE) for normal use
Physical hazard: reactivity

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 | 3 | material that, under emergency conditions, can cause serious or permanent injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|--|
| CA | DSL | not all ingredients are listed |
| CA | NDSL | not all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| US | TSCA | all ingredients are listed as "ACTIVE" |
| AU | AIIC | not all ingredients are listed |
| CN | IECSC | not all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| JP | ISHA-ENCS | not all ingredients are listed |



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| Country | Inventory | Status |
|---------|-----------|--------------------------------|
| KR | KECI | not all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | not all ingredients are listed |
| PH | PICCS | not all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | 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 |
| 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

Indication of changes (revised safety data sheet)

Alignment to regulation: Globally Harmonized System of Classification and Labelling of Chemicals ("Purple book").
Restructuring: section 9, section 14

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 2.2 | - Hazardous ingredients for labelling: Orange oil, sweet, Dicoco alkyldimethyl ammonium chlorides | - Hazardous ingredients for labelling: Dicoco alkyldimethyl ammonium chlorides, Grapefruit oil | yes |
| 2.3 | | Hazards not otherwise classified: change in the listing (table) | yes |
| 3.2 | | Hazardous ingredients acc. to GHS: change in the listing (table) | yes |
| 8.1 | | Relevant DNELs of components of the mixture: change in the listing (table) | yes |
| 8.1 | | Relevant PNECs of components of the mixture: change in the listing (table) | yes |
| 9.1 | Color: orange | Color: fluorescent yellow-green | yes |
| 9.1 | Density: 0.95 g/ml | Density: 0.96 g/ml | yes |
| 12.1 | | Aquatic toxicity (acute) of components of the mixture: change in the listing (table) | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 14.7 | | Reportable quantity (RQ): 172,413,793 lbs (78,275,862 kg) (diethanolamine) | yes |
| 15.1 | Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) | | yes |
| 15.1 | List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4): none of the ingredients are listed | | yes |
| 15.1 | | Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table) | yes |
| 15.1 | California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987: none of the ingredients are listed | California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987 | yes |
| 15.1 | | Proposition 65 List of chemicals: change in the listing (table) | yes |
| 15.1 | Regulated Volatile Organic Compounds (VOC-EPA): 29 % | Regulated Volatile Organic Compounds (VOC-EPA): 28 % | yes |
| 15.1 | Regulated Volatile Organic Compounds (VOC-Cal ARB): 29 % | Regulated Volatile Organic Compounds (VOC-Cal ARB): 28 % | yes |
| 15.1 | | NPCA-HMIS® III: change in the listing (table) | yes |
| 16 | | Abbreviations and acronyms: change in the listing (table) | yes |
| 16 | | List of relevant phrases (code and full text as stated in section 2 and 3): 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® | American Conference of Governmental Industrial Hygienists |
| ACGIH® 2019 | From ACGIH®, 2019 TLVs® and BEIs® Book. Copyright 2019. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: 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) |
| Cal ARB | California Air Resources Board |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEP CODE | Department of Environmental Protection Code |



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| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| 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 |
| EPA | Environmental Protection Agency. An agency of the federal government of the United States charged with protecting human health and the environment |
| ErC50 | = EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| ERG No | Emergency Response Guidebook - Number |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HHS | Higher hazard substance |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| 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 |
| LHS | Lower hazard substance |
| NFPA® | National Fire Protection Association (United States) |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible exposure limit |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| Skin Corr. | Corrosive to skin |



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| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| VOC | Volatile Organic Compounds |
| 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 section 2 and 3)

| Code | Text |
|------|--|
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| 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. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |

Disclaimer

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