

Intra Clean & Control**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

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|----------------------------|---|
| Product | Intra Clean & Control |
| Supplier | Intracare B.V. Voltaweg 4 5466 AZ Veghel - The Netherlands Tel.: +31-413-354105 E-mail: info@intracare.nl |
| Emergency telephone | +31-6 139 422 97 Intracare B.V. - NL |

2 HAZARDS IDENTIFICATION**Classification and labeling according to Regulation (EU) 1272/2008 (CLP)****Signal word** DANGER**Symbols**

Corrosive



Environmentally dangerous

H-statements

- H290: May be corrosive to metals.
H302+H332: Harmful if swallowed or if inhaled.
H315+H320: Causes skin and eye irritation.
H400: Very toxic to aquatic life.

P-statements

- P102: Keep out of reach of children.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P350: IF ON SKIN, gently wash with plenty of soap and 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.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container to a collection point for special or dangerous wastes.

Classification system

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.



MATERIAL SAFETY DATA SHEET

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3 INFORMATION ON INGREDIENTS

Formulation information on hazardous ingredients

| Number | CAS-number | Chemical name | Concentration |
|--------|------------|--|---------------|
| 1 | 7173-51-5 | Didecyldimethylammonium chloride; | 3.0 % (w/w) |
| 2 | 111-30-8 | Glutaral; | 3.8 % (w/w) |
| 4 | 68424-85-1 | Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides; | 4.5 % (w/w) |

Risks classification on hazardous ingredients

Glutaral ca. 50% Met. corr.: 1; H290, Ac. tox.: 3 (oral); H301, Ac. tox.: 3 (inhal); H314, Skin corr.: 1B; H317, Resp. sens.: 1; H331, Skin. Sens.: 1; H334, Ac. Eco.: 1; H400.

Didecyldimethylammonium chloride ca. 50% Ac. Tox.: 3; H301, Skin corr.: 1B; H314, Aq. ac.: 1; H400.

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides ca. 50% Ac. Toc.: 4; H302, Skin corr.: 1B; H314, Aq. ac.: 1; H400.

For the full text of the H-phrases mentioned in this section, see section 16.

4 FIRST AID MEASURES

General information

Immediately remove any clothing soiled by the product. Call a physician immediately. In case of unconsciousness, place patient stably in side position for transportation. Helpers should also consider their own safety.

Inhalation

Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

Skin

Take off all contaminated clothing immediately. After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately.

Eye

Rinse immediately with plenty of water, also under the eyelids. Conduct this for at least 15 minutes with running water. Call a physician immediately.

Ingestion

Clean mouth with water and then drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Symptoms

Causes severe irritation of skin and eyes and may cause respiratory irritation.



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5 FIRE-FIGHTING MEASURES

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| Extinguishing media | Dry powder, water spray or (alcohol resistant) foam. |
| Special hazards during fire fighting | Heating or fire can release toxic gases. |
| Protective equipment | Wear a self-contained respiratory protective device and protective clothing. |
| Additional information | Use water spray to cool unopened containers. Dispose of fire debris and contaminated fire-fighting water in accordance with local disposal regulations. |

6 ACCIDENTAL RELEASE MEASURES

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| Personal precautions | Wear protective equipment to avoid contact with eyes, skin and clothes. Avoid inhalation of fumes/dust/aerosol. |
| Environmental precautions | Do not release this product into the sanitary sewer system, surface waters or ground waters. |
| Methods for cleaning up | Contain spillage and collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite). |

7 HANDLING AND STORAGE

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| Handling | Avoid contact with skin and eyes. Ensure sufficient air ventilation and/or exhaust in work rooms. Keep receptacles tightly sealed. Prevent formation of aerosols. Wear protective equipment. Keep running water at hand. |
| Advice on protection against fire and explosion | Keep away from sources of ignition – no smoking. Take precautionary measures against static discharges. |
| Information on storage | Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and properly ventilated place. Keep away from sources of ignition – no smoking. |

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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| General protective and hygienic measures | Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes, skin and clothing. |
| Respiratory protection | Use suitable respiratory protective device in case of insufficient ventilation or vapour or aerosol formation. |



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Hand protection

Use protective gloves (EN 374). The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion, mechanical strain and the degradation.

Eye protection

Wear tightly fitting safety goggles and a face shield.

Skin and body protection

Body covering clothes and rubber boots. Choose clothing based on the activity, exposure time and concentrations exposed to.

Maximum exposure limits

111-30-8: glutaral

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| CLV: | 0.4 mg/m ³ (MAC NL) |
| TGG value (8h): | 0.08 mg/m ³ (MAC NL) |
| Sweetwater: | 0.0025 mg/l |
| Seawater: | 0.00025 mg/l |
| Accidental release: | 0.006 mg/l |
| Sediment (sweetwater): | 5.27 mg/l |
| Sediment (seawater): | 0.527 mg/kg |
| Soil: | 0.03 mg/kg |
| Worker: | Long term exposure – local effects, inhalation: 0.25 mg/m ³ |

7173-51-5: Didecyldimethylammonium chloride

No data.

68424-85-1: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

No data.

9 PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | Liquid |
| Colour | Green/blue |
| Odour | Pungent, slightly saponaceous |
| Boiling point/range | > 80 °C |
| Flash point | 80.0 °C |
| Self-igniting: | Product is not self-igniting. |
| Danger of explosion: | Product is not explosive. However, based on the ingredients it is recommended to keep away from sources of ignition. |
| pH (100%) | 5.0 – 6.0 |
| pH (1%) | 6.5 – 7.5 |
| Density (20 °C) | 0.970 – 1.000 g/cm ³ |
| Solubility in water | Fully soluble |
| Solubility in other solvents | Not determined |
| Viscosity (20 °C) | 20 – 50 mPa·s |
| Freezing point | - 6 °C |



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10 STABILITY AND REACTIVITY

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| Stability | Stable under recommended storage and handling conditions (see section 7). |
| Thermal decomposition / conditions to avoid | No decomposition if used and stored according to the recommended storage conditions. Avoid sources of ignition. |
| Materials to avoid | Strong oxidizing agents, reducing agents, nitrogen oxides (NO _x), hydrogen chloride gas, carbon oxides. |
| Dangerous reactions | May form an explosive gas mixture with air. |
| Dangerous decomposition products | No dangerous products of decomposition if used and stored under the recommended specifications. |

11 TOXICOLOGICAL INFORMATION

Acute toxicity

No experimentally found toxicological data are available for this preparation. Of the hazardous substances, the following toxicological information is available:

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| Didecyldimethylammoniumchloride | LD50 (oral, rat): 238 mg/kg (OECD guideline 401) LD50 (dermal, rabbit): 3342 mg/kg Irritant to skin, not a sensitizer. |
| Glutaaral | LD50 (oral, rat): ca. 158 mg/kg (OECD guideline 401) LD50 (dermal, rat): >2000 mg/kg (OECD guideline 402) LC50 (inhal, rat 4h): 0.48 mg/kg (OECD guideline 403) Highly toxic if inhaled or swallowed, moderately toxic to skin. Corrosive to skin and eyes. Sensitizing to skin and respiratory tract. |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | LD50 (oral, rat): ca. 344 mg/kg LD50 (dermal, rabbit): ca. 3340 mg/kg Corrosive to skin and eyes. Not a sensitizer. |

Primary irritant effect

Severely irritant to the skin and eyes. May cause respiratory irritations. May be sensitizing.

Sensitization

May have a sensitizing effect on skin and respiratory system (glutaral).

12 ECOLOGICAL INFORMATION

Toxicity to fish (LC50) and Daphnia (EC50)

No experimentally found toxicological data are available for this preparation. Of the hazardous substances, the following toxicological information is available:

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| Didecyldimethylammoniumchloride | LC50 (96h, Fathead minnow): 0.19 mg/l (US-EPA) |
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| | EC50 (48h, Daphnia magna): | 0.062 mg/l (EPA-FIFRA) |
| | NOEC (14d, earthworms): | ≥ 1000 mg/kg (OECD 207) |
| Glutaral | LC50 (96h, Cyp. variegatus): | 39 mg/l |
| | EC50 (48h, Daphnia magna): | 5.75 mg/ml |
| | EC20 (19d, terr. plants): | > 450 mg/kg (OECD 208) |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | LC50 (96h, Fathead minnow): | 0.28 mg/l |
| | EC50 (48h, Daphnia magna): | 0.016 mg/ml |
| | LC50 (14d, earthworms): | 7070 mg/kg (OECD 207) |

Additional toxicological information

No experimentally found toxicological data are available for this preparation. Based on the toxicity data of the hazardous substances, this preparation is considered highly toxic to the aquatic organisms and is considered to be moderately toxic to terrestrial organisms.

Persistence, degradability and bioaccumulation

All hazardous substances are classified as 'readily biodegradable'. No accumulation in the environment is expected.

Bioaccumulation

No bioaccumulation of the hazardous substances is expected, based on a low log n-octanol/water for glutaral and on the strong tendency to bind to soil and the biodegradation potential of didecyldimethylammoniumchloride and quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides.

13 DISPOSAL CONSIDERATIONS

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| Product disposal | Do not release this product into the sanitary sewer system, surface waters or ground waters. Disposal in accordance with official regulations. |
| Packaging disposal | The product is delivered in a high density polyethylene bottle or can. Rinse the empty packaging with plenty of water prior to disposal. The rinsed packaging can be treated as normal waste. Remainder of this product is chemical waste. |
| Recommended cleaning agents | Dilute with water, if necessary with cleaning agents. Anionic surfactants can neutralize the effect of the active substances DDAC and ADBAC. |

14 TRANSPORT INFORMATION

Land transport ADR/RID (cross-border)

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| ADR/RID class: | 8 Corrosive substances. |
| Danger code (Kemler): | 8 |
| UN-Number: | 1903 |
| Packaging group: | II |
| Hazard label | 8 |
| Description of goods: | Disinfectants, liquid, corrosive n.o.s. |



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15 REGULATORY INFORMATION

Special labeling of certain preparations

Use biocides safely. Always read the label and product information before use.

Safety, health and environmental regulations/legislation specific for the mixture

This safety datasheet complies with the requirements of Regulation (EU) 1272/2008 (CLP).

National regulations

Water contamination class: WGK 2 (Self-assessment): water endangering.
(Germany)

16 OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

Full text of H-phrases, mentioned in section 3

H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H319: Causes serious eye irritation.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.

History / revisions

Date of printing: 01-04-2016
Revision: 4
Composed by: C. Vulders

Changes were made in section: 2, 3, 9, 14