

CLENSAN® CONCENTRATE

3.2. Mixtures

| | | |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------|
| QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES | | 0.5 - 2% |
| CAS-No.: 68424-85-1 | EC No.: 270-325-2 | |
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 | Classification (67/548/EEC) Xn;R22. C;R34. N;R50. | |
| QUATERNARY AMMONIUM COMPOUNDS, C12-14-ALKYL[(ETHYLPHENYL)METHYL]DIMETHYL, CHLORIDES | | 0.5 - 2% |
| CAS-No.: 85409-23-0 | EC No.: 287-090-7 | |
| Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 | Classification (67/548/EEC) Xn;R22. C;R34. N;R50. | |
| DIDECYLDIMETHYL AMMONIUM CHLORIDE | | 0.5 - 2% |
| CAS-No.: 7173-51-5 | EC No.: 230-525-2 | |
| Classification (EC 1272/2008) Acute Tox. 3 - H301 Skin Corr. 1B - H314 Aquatic Acute 1 - H400 | Classification (67/548/EEC) Xn;R22. C;R34. N;R50. | |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move into fresh air and keep at rest. Get medical attention if any discomfort continues.

Ingestion

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Get medical attention.

Skin contact

Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention.

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

Ingestion

Ingestion may cause: Nausea, vomiting. irritation Systemic Effects

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

In the event of contact with eyes or ingestion seek immediate medical help.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use: Water spray, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

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Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up

Collect with absorbent, non-combustible material into suitable containers. For waste disposal, see section 13.

6.4. Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and spray mists. Wash hands after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 5°C and 30°C. Keep out of the reach of children.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation.

Respiratory equipment

Not required in normal use. For situations where recommended exposure limits may be exceeded or where there is a risk of inhalation of fine spray mists, a suitable respirator face mask is recommended.

Hand protection

Nitrile gloves are recommended. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

Eye protection

Side shield safety glasses are recommended when handling concentrate or during spray application.

Hygiene measures

Wash hands after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using the product.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|-----------------------------------------------------|-------------------|
| Appearance | Clear liquid. |
| Colour | Yellow. |
| Odour | Herbal Lemon. |
| Solubility | Soluble in water. |
| Initial boiling point and boiling range (°C) | 100°C |
| Relative density | 1.00 |
| Vapour density (air=1) | Not determined. |
| Vapour pressure | Not determined. |
| Evaporation rate | Not determined. |
| pH-Value, Conc. Solution | 7.5 |
| pH-Value, Diluted Solution | 7.5 |
| Viscosity | Not determined. |
| Odour Threshold, Lower | Not determined. |
| Flash point (°C) | Not applicable. |
| Flammability Limit - Lower(%) | Not applicable. |
| Partition Coefficient (N-Octanol/Water) | Not determined. |
| Explosive properties | Not applicable. |
| Oxidising properties | Not applicable. |

9.2. Other information

None known.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use. Product is deactivated by anionic cleaning agents.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Store in closed original container at temperatures between 5°C and 30°C. Protect from freezing and direct sunlight.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. anionic surfactants

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

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11.1. Information on toxicological effects

Acute toxicity:

Ingestion may cause: Nausea, vomiting. Systemic Effects Excessive inhalation of spray, mist or vapour may cause temporary respiratory irritation.

Skin Corrosion/Irritation:

Prolonged or repeated exposure may cause: Skin irritation.

Serious eye damage/irritation:

Contact with concentrate may cause moderate eye irritation.

Respiratory or skin sensitisation:

Contains Hexyl cinnamal Citral Benzyl benzoate Limonene Linalool

Germ cell mutagenicity:

No effects expected based upon current data.

Carcinogenicity:

No effects expected based upon current data.

Reproductive Toxicity:

No effects expected based upon current data.

Toxicological information on ingredients.

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES (CAS: 68424-85-1)

Acute toxicity:

Acute Toxicity (Oral LD50)

344 mg/kg Rat

Acute Toxicity (Dermal LD50)

3340 mg/kg Rat

QUATERNARY AMMONIUM COMPOUNDS, C12-14-ALKYL[(ETHYLPHENYL)METHYL]DIMETHYL, CHLORIDES (CAS: 85409-23-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

344 mg/kg Rat

Acute Toxicity (Dermal LD50)

3340 mg/kg Rabbit

DIDECYLDIMETHYL AMMONIUM CHLORIDE (CAS: 7173-51-5)

Acute toxicity:

Acute Toxicity (Oral LD50)

238 mg/kg Rat

Acute Toxicity (Dermal LD50)

3342 mg/kg Rabbit

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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Ecological information on ingredients.

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES (CAS: 68424-85-1)

Acute Toxicity - Fish

LC50 96 hours 0.28 mg/l Pimephales promelas (Fat-head Minnow)

EC 50, 48 Hrs, Daphnia, mg/l

0.016

Acute Toxicity - Aquatic Plants

EC50 72 hours 0.049 mg/l Scenedesmus subspicatus

QUATERNARY AMMONIUM COMPOUNDS, C12-14-ALKYL[(ETHYLPHENYL)METHYL]DIMETHYL, CHLORIDES (CAS: 85409-23-0)

Acute Toxicity - Fish

LC50 96 hours 0.28 mg/l Pimephales promelas (Fat-head Minnow)

EC 50, 48 Hrs, Daphnia, mg/l

0.016

Acute Toxicity - Aquatic Plants

EC50 72 hours 0.049 mg/l Scenedesmus subspicatus

DIDECYLDIMETHYL AMMONIUM CHLORIDE (CAS: 7173-51-5)

Acute Toxicity - Fish

LC50 96 hours 0.19 mg/l Pimephales promelas (Fat-head Minnow)

Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 0.062 mg/l Daphnia magna

Acute Toxicity - Aquatic Plants

EC50 96 hours 0.026 mg/l Scenedesmus subspicatus

12.2. Persistence and degradability

Degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

Partition coefficient

Not determined.

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

Not classified for transportation.

14.2. UN proper shipping name

None.

14.3. Transport hazard class(es)

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ADR/RID/ADN Class -

IMDG Class -

14.4. Packing group

None.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information

Telephone 020 8974 1515

Revision Date 13/10/14

Revision 1

Signature Aaron Saunders

Risk Phrases In Full

R34 Causes burns.
R22 Harmful if swallowed.
NC Not classified.
R50 Very toxic to aquatic organisms.

Hazard Statements In Full

H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H301 Toxic if swallowed.
H400 Very toxic to aquatic life.

Disclaimer

For additional information on safety, training and use of this product, contact the supplier. This product is intended for professional use only. The information given is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any guarantee as to the intended use.