

Printing date 05/08/2009 Reviewed on 05/07/2009

1 Identification of substance

- Product details
 - Trade name: DEUTERON LE 100 LV
 - · Application of the substance / the preparation Paint additive
 - Manufacturer/Supplier:

DEUTERON GmbH In den Ellern 2 D-28832 Achim

· Information department:

Division for product safety

mbrimmer@deuteron.com

• Emergency information: Laboratory, ++49 421 / 48 32 27 (Mo. - Fr. 08:00 - 17:00)

2 Composition/Data on components

- · Chemical characterization:
 - · CAS No. Description

68308-64-5 Tetraalkyl ammoniumethylsulfate

- · Identification number(s)
 - EINECS Number: 269-662-8

3 Hazards identification

· Hazard description:





Harmful Dangerous for the environment

· Information pertaining to particular dangers for man and environment:

Harmful if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- · Classification system:
- NFPA ratings (scale 0 4)



Health = 2 Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 1 Reactivity = 0

· GHS label elements



Warning

4.1/1 - Very toxic to aquatic life with long lasting effects.



3.1/4 - Harmful if swallowed.

· Prevention:

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

· Response:

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

Collect spillage.

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Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

4 First aid measures

- · General information:
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Immediately call a doctor.

5 Fire fighting measures

- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

- Protective equipment: No special measures required.
- · Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- · Person-related safety precautions: Particular danger of slipping on leaked/spilled product.
- · Measures for environmental protection:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Additional information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Information for safe handling: No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace: Not required.
 - Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
 - · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- Breathing equipment: Not required.
- Protection of hands:

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 and the degradation

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· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Goggles recommended during refilling.

9 Physical and chemical	properties
General Information	
• Form: • Color: • Odor:	Fluid Yellowish Mild
Change in condition Melting point/Melting range Boiling point/Boiling range	
• Flash point:	> 100 °C (> 212 °F)
· Ignition temperature:	>300 ℃ (>572 ℉)
Danger of explosion:	Product does not present an explosion hazard.
• Vapor pressure at 20 °C (68 °F): <1 hPa (<1 mm Hg)	
• Density at 20 °C (68 °F):	1.05 g/cm ³
Solubility in / Miscibility with Water:	Fully miscible.
• pH-value at 20 °C (68 °F): • Organic solvents:	8.5 0.0 %

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Dangerous reactions No dangerous reactions known.
- Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
 - · LD/LC50 values that are relevant for classification:

68308-64-5 Tetraalkyl ammoniumethylsulfate

Oral LD50 530 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

12 Ecological information

- · Ecotoxical effects:
 - Acquatic toxicity:

68308-64-5 Tetraalkyl ammoniumethylsulfate

EC50/24h | 0.0043 mg/l (daphnia)

EC50/48h 0.0024 mg/l (daphnia)

- Remark: Very toxic for fish
- · General notes:

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

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Very toxic for aquatic organisms

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Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

13 Disposal considerations

- · Product:
 - Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packagings:
 - Recommendation: Disposal must be made according to official regulations.
 - · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

DOT regulations:



Hazard class:
Identification number:
Packing group:
III

• Proper shipping name (technical name): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary

ammonium compounds, cocoalkylethyldimethyl, Et sulfates)

• Label

· Land transport ADR/RID (cross-border):



• ADR/RID class: 9 (M6) Miscellaneous dangerous substances and articles

• Danger code (Kemler): 90
• UN-Number: 3082
• Packaging group: III
• Label: 9

• Description of goods: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S

(Tetraalkyl ammoniumethylsulfate)

· Maritime transport IMDG:



 • IMDG Class:
 9

 • UN Number:
 3082

 • Label
 9

 • Packaging group:
 III

 • EMS Number:
 F-A,S-F

 • Marine pollutant:
 Yes

• Propper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary

ammonium compounds, cocoalkylethyldimethyl, Et sulfates)

· Air transport ICAO-TI and IATA-DGR:



• ICAO/IATA Class: 9
• UN/ID Number: 3082
• Label 9

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Packaging group:

• Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Quaternary

ammonium compounds, cocoalkylethyldimethyl, Et sulfates)

• UN "Model Regulation": UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

• Environmental hazards; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID: Marine pollutant

15 Regulations

• Sara

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

Substance is not listed.

TSCA (Toxic Substances Control Act):

Substance is listed.

Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

Chemicals known to cause developmental toxicity:

Substance is not listed.

Cancerogenity categories

• EPA (Environmental Protection Agency)

Substance is not listed.

· IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

• NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols:



Harmful Dangerous for the environment

· Risk phrases:

Harmful if swallowed.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

Do not empty into drains.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Division for product safety
- Contact: Hr. Brimmer

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IMDA: International Mantime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

• * Data compared to the previous version altered.