## Zschimmer & Schwarz Italiana S.p.a.

## LES D6

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## Safety data sheet

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Code: 20210#000 Product name LES D6

Chemical name and synonym Water solution of amine partially neutralized with fatty acids

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

Water solution of partially neutralized amine used in detergency field, in Intended use

industrial, building, leather and textile sectors.

1.3. Details of the supplier of the safety data sheet

Zschimmer & Schwarz Italiana S.p.a.

Full address via A. Ariotto, 1/C **District and Country** 13038 Tricerro

(VC) Italia

0039 0161 808111 Tel. Fax 0039 0161 801002

e-mail address of the competent person

responsible for the Safety Data Sheet e.merlo@zschimmer-schwarz.com

1.4. Emergency telephone number

For urgent inquiries refer to 800 452661

## SECTION 2. Hazards identification.

## 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

## 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:

Skin Corr. 1B H314 Eve Dam. 1 H318 Skin Sens. 1 H317

## 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols: Χi

36/38-43 R phrases:

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:





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SECTION 2. Hazards identification. .../>>

Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements:

P264 Wash skin and eyes thoroughly after handling.

**P280** Wear protective gloves / protective clothing / eye protection / face protection.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor / physician.

Contains: Dimethylaminopropylamine

2.3. Other hazards.

Information not available

## **SECTION 3. Composition/information on ingredients.**

## 3.1. Substances.

Information not relevant.

#### 3.2. Mixtures.

#### Contains:

Identification. Conc. %. Classification 67/548/EEC. Classification 1272/2008 (CLP).

Dimethylaminopropylamine

CAS. 109-55-7 5 - 10 R10, C R34, Xn R21/22, Xi R43 Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312,

EC. 203-680-9 Skin Corr. 1B H314, Skin Sens. 1 H317

INDEX. 612-061-00-6 Reg. no. 01-2119486842-27-xxxx

Fatty acids, C8-18 and C18-unsatd.

CAS. 67701-05-7 1 - 2 Xi R36/38 Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC. 266-929-0

INDEX. -

Reg. no. 01-2119552480-44-xxxx

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

 $T+= Very\ Toxic(T+),\ T=Toxic(T),\ Xn=Harmful(Xn),\ C=Corrosive(C),\ Xi=Irritant(Xi),\ O=Oxidizing(O),\ E=Explosive(E),\ F+=Extremely\ Flammable(F+),\ F=Highly\ Flammable(F),\ N=Dangerous\ for\ the\ Environment(N)$ 

## SECTION 4. First aid measures.

## 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

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## **SECTION 5. Firefighting measures.**

## 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

## 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

#### 5.3. Advice for firefighters.

**GENERAL INFORMATION** 

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures.

## 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

## 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

## 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

## 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## **SECTION 7. Handling and storage.**

## 7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

## 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 7.3. Specific end use(s).

Information not available.

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## SECTION 8. Exposure controls/personal protection.

## 8.1. Control parameters.

Regulatory References:

EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits United Kingdom for use with the Control of Substances Hazardous to Health Regulations (as amended).

Éire Code of Practice Chemical Agent Regulations 2011.

OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC.

**TLV-ACGIH ACGIH 2012** 

			Dimethylar	minopropylam	ine			
Predicted no-effect cor	ncentration	- PNEC.	•					
Normal value for the terrestrial compartment						0,0584	mg/kg	
Normal value in fresh water						0,0535	mg/l	
Normal value for water, intermittent release						0,535	mg/l	
Normal value in marine water						0,00535	mg/l	
Normal value for fresh water sediment						0,585	mg/kg	
Normal value for marine water sediment						0,0585	mg/kg	
Normal value of STP microorganisms						69,5	mg/l	
lealth - Derived no-eff	ect level - C	NEL / DMEL						
	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.							4,9 mg/m3	4,9 mg/m3

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction. VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION** 

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

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## **SECTION 9. Physical and chemical properties.**

## 9.1. Information on basic physical and chemical properties.

Appearance liquid

Colour from colourless to yellow

Odour characteristic Odour threshold. characteristic 11.28 (53 g/l, 20°C) pH. Melting point / freezing point. Not available. Initial boiling point. 110 Not available. Boiling range. Flash point. 100 Not available. **Evaporation Rate** Flammability of solids and gases not flammable Lower inflammability limit. Not available. Upper inflammability limit. Not available.

Lower explosive limit.

Upper explosive limit.

Vapour pressure.

Vapour density

Relative density.

Solubility

Not available.

Not available.

Not available.

1.1004 g/cm3 (20°C)

Soluble in water

Partition coefficient: n-octanol/water - 2.18

Auto-ignition temperature. 365 °C.

Decomposition temperature. Not available.

Viscosity 390 mPas (30°C)

Explosive properties Non explosive

Oxidising properties Non oxidant

Oxidising properties **9.2. Other information.** 

Molecular weight. 390

## **SECTION 10. Stability and reactivity.**

## 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

## 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

## 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

Protect from frost.

## 10.5. Incompatible materials.

Esotermic reaction with acids.

## 10.6. Hazardous decomposition products.

Information not available.

## **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product is corrosive and causes serious burns and vesicles on the skin, which can arise even after exposure. Burns are very stinging and painful. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. Possible vapours are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours

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## SECTION 11. Toxicological information. .../>>

Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness.

If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastro-intestinal tract is also possible.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening

prevail during the chronic phase.

Corrosive to eye and skin; Skin sensitizer; Not mutagenic; Not cancerogenic

Dimethylaminopropylamine

 LD50 (Oral).
 410 mg/kg Rat (OECD 401)

 LD50 (Dermal).
 > 1000 mg/kg Rat (OECD 402)

 LC50 (Inhalation).
 > 4,3 mg/l Rat (4h, OECD 403)

DL50 (oral, rat): 1610 mg/kg; LD50 (dermal, rabbit): 12200 mg/kg; Irritant to skin and eye (as it is); Non mutagenic (Ames test); Not sensitizing.

## **SECTION 12. Ecological information.**

#### 12.1. Toxicity.

Dimethylaminopropylamine

LC50 - for Fish. 122 mg/l/96h Leuciscus idus (DIN 38412)

EC50 - for Crustacea. 59,5 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants. 53,5 mg/l/72h Scenedesmus subspicatus (DIN 38412) EC10 for Algae / Aquatic Plants. 43 mg/l/72h Scenedesmus subspicatus (DIN 38412)

LC50 (Pimephales promelas, 96h) = 1460 mg/l; EC/LD50 (Daphnia, 48h) = 55 mg/l; EC/LD50 (Algae, 72h) = 75 mg/l.

## 12.2. Persistence and degradability.

Readily biodegradable (according to CE 648/2004)

Readily biodegradable (according to CE 648/2004).

#### 12.3. Bioaccumulative potential.

Information not available.

## 12.4. Mobility in soil.

Information not available.

## 12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## 12.6. Other adverse effects.

COD value: 1352 mg02/g; BOD5 value: 885 mg02/g.

## **SECTION 13. Disposal considerations.**

## 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

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## **SECTION 14. Transport information.**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

Emergency phone number for transport 800 452 661

## **SECTION 15. Regulatory information.**

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

Seveso category. None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (Annex XIV REACH).

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

## **SECTION 16. Other information.**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3 Acute Tox. 4 Acute toxicity, category 4 Skin Corr. 1B Skin corrosion, category 1B Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 Skin Sens. 1 Skin sensitization, category 1 H226 Flammable liquid and vapour. H302 Harmful if swallowed

H312 Harmful in swallowed.
Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10 FLAMMABLE.

R21/22 HARMFUL IN CONTACT WITH SKIN AND IF SWALLOWED.

R34 CAUSES BURNS

R36/38 IRRITATING TO EYES AND SKIN.

R43 MAY CAUSE SENSITISATION BY SKIN CONTACT.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)

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- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### **GENERAL BIBLIOGRAPHY**

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
- 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
- 9. The Merck Index. 10th Edition
- 10. Handling Chemical Safety
- 11. Niosh Registry of Toxic Effects of Chemical Substances
- 12. INRS Fiche Toxicologique (toxicological sheet)
- 13. Patty Industrial Hygiene and Toxicology
- 14. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- 15. ECHA website

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

For further information contact Green Line 800 452661

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SECTION 16. Other information. .../>>

Changes to previous review: The following sections were modified: 02 / 09 / 11 / 12 / 14 / 15.