

Information Sheet

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

1.1. Product identifier

| | |
|---------------------------|----------------------------------|
| Code: | 43021 |
| Product name | CETYLOLEIC ALCOHOL 50/55 |
| Chemical name and synonym | Alcohols, C16-18 and C18-unsatd. |
| EC number | 268-106-1 |
| CAS number | 68002-94-8 |
| Registration Number | 01-2119489408-24-xxxx |

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

| | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Intended use | Non ionic surfactant, coemulsifier, consistency factor, used in cosmetic and detergency field, in industrial, building, leather and textile sectors. |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|

1.3. Details of the supplier of the safety data sheet

| | | |
|------------------------------------------------------------------------------|-------------------------------------|------|
| Name | Zschimmer & Schwarz Italiana S.p.a. | |
| Full address | via A. Ariotto, 1/C | |
| District and Country | 13038 Tricerro Italia | (VC) |
| | Tel. 0039 0161 808111 | |
| | 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 | 0039 0161 808111 / 0039 3316593305 |
|-------------------------------|------------------------------------|

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

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

| | |
|---------------------------------------|----|
| Hazard classification and indication: | -- |
|---------------------------------------|----|

2.2. Label elements.

| | |
|---------------------------|----|
| Hazard pictograms: | -- |
| Signal words: | -- |
| Hazard statements: | -- |
| Precautionary statements: | -- |

This product is not subject to hazard labeling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

2.3. Other hazards.

Information not available.

CETYLOLEIC ALCOHOL 50/55**SECTION 3. Composition/information on ingredients.****3.1. Substances.****Contains:**

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

Alcohols, C16-18 and C18-unsatd.

CAS. 68002-94-8 100

EC. 268-106-1

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Reg. no. 01-2119489408-24-xxxx

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)

3.2. Mixtures.

Information not relevant.

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.

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.**

Use breathing equipment if fumes or powders are released into the air. 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.

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. 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.

SECTION 8. Exposure controls/personal protection.**8.1. Control parameters.**

Information not available.

8.2. Exposure controls.

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

EYE PROTECTION

None required.

RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

SECTION 9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

| | |
|----------------------------------|-----------------|
| Appearance | solid |
| Colour | white |
| Odour | characteristic |
| Odour threshold. | characteristic |
| pH. | Not available. |
| Melting point / freezing point. | 20 °C. |
| Initial boiling point. | Not applicable. |
| Boiling range. | Not available. |
| Flash point. | Not applicable. |
| Evaporation Rate | Not available. |
| Flammability of solids and gases | not flammable |
| Lower inflammability limit. | Not available. |
| Upper inflammability limit. | Not available. |
| Lower explosive limit. | Not available. |

CETYLOLEIC ALCOHOL 50/55**SECTION 9. Physical and chemical properties. ... / >>**

| | |
|----------------------------------------|--------------------------------|
| Upper explosive limit. | Not available. |
| Vapour pressure. | 1 hPa (20°C) |
| Vapour density | Not available. |
| Relative density. | 0.825 g/cm ³ (40°C) |
| Solubility | insoluble in water |
| Partition coefficient: n-octanol/water | Not available. |
| Auto-ignition temperature. | 260 °C. |
| Decomposition temperature. | Not available. |
| Viscosity | Not available. |
| Explosive properties | Non explosive |
| Oxidising properties | Non oxidant |

9.2. Other information.

Information not available.

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.

10.5. Incompatible materials.

Oxidants.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.

11.1. Information on toxicological effects.

NOAEL (Repr. Tox, experimental toxicity): 2000 mg/kg (rat); NOAEL (Toxicity on repeated dose): 840 mg/kg (rat).

Alcohols, C16-18 and C18-unsatd.

LD50 (Oral). > 5000 mg/kg Rat

LD50 (Dermal). > 2000 mg/kg Rat

LC50 (Inhalation). > 0,02 ppm Rat

Not irritant to eye and skin; No sensitizing effects known; Not mutagenic (Ames test); Not sensitizing; Not cancerogenic.

SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

LOEC (long term): 2,94 mg/l (Daphnia).

Alcohols, C16-18 and C18-unsatd.

LC50 - for Fish. > 10000 mg/l/96h Fish (OECD 203)

EC50 - for Crustacea. 70 mg/l/48h Daphnia (92/69/EEC)

CETYLOLEIC ALCOHOL 50/55**SECTION 12. Ecological information. ... / >>**

EC50 - for Algae / Aquatic Plants. > 235 mg/l/72h Algae

12.2. Persistence and degradability.

Readily biodegradable.

12.3. Bioaccumulative potential.

No bioaccumulo.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

No PBT/vPvB.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.**13.1. Waste treatment methods.**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

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.

Solid residues may be suitable for disposal in an authorised landfill site.

CONTAMINATED PACKAGING

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

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.

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.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (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.

Information not available.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information.**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)
- 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.