

Revision nr. 5

Dated 08/08/2019

LEAK TEST A390

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Safety Data Sheet

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

| 1.1. Product identifier Code: Product name | | U051350004 LEAK TEST A390 | | | |
|---|--|--|--|--|--|
| 1.2. Relevant identified Intended use Uses advised against: | uses of the substance or | mixture and uses advise Leak detector. Different uses than tho | - | | |
| 1.3. Details of the supp Name Full address District and Country | ier of the safety data shee | t CENTRO DISTRIBUZI Via delle Gerole, 19 20867 CAPONAGO (N ITALY | | | |
| | | tel. +39 02 95746081 | | | |
| | | fax. + 39 02 95745182 | | | |
| e-mail address of the con | npetent person | | | | |
| responsible for the Safety Product distribution by: | / Data Sheet | info@cdu.net Centro Distribuzione | Utensili Scpa | | |
| 1.4. Emergency telepho For urgent inquiries refer | | +39 02 95746081 duri | ng office hours 8.30-12.30 - 13.30-17.30 | | |
| SECTION 2. Haza | rds identification | | | | |
| supplements). The product | as hazardous pursuant to t thus requires a safety datas concerning the risks for hea | sheet that complies with the | n (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and he provisions of (EU) Regulation 2015/830. It are given in sections 11 and 12 of this sheet. Pressurised container: may burst if heated. | | |
| 2.2. Label elements | a FC Degulation 1272/2009 | (CLD) and autoaccurate | | | |
| Hazard labelling pursuant t | 0 EC Regulation 1272/2008 | (CLP) and subsequent a | mendments and supplements. | | |
| Hazard pictograms: | | | | | |
| Signal words: | WARNING | | | | |
| Hazard statements: H229 | Pressurised container: ma | ay burst if heated. | | | |
| Precautionary statements: P102 P210 P211 P251 P410+P412 | nts: Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F. | | | | |
| 1,50% by mass of the co | ntents are flammable. | | | | |

2.3. Other hazards

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



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SECTION 3. Composition/information on ingredients

| 3.1. Substances Information not relevant | | |
|--|---------------------|---|
| 3.2. Mixtures Contains: Identification | X=Conc. % | Classification 1272/2008 (CLP) |
| ETHANEDIOL | | |
| CAS 107-21-1 | $3,0 \le x \le 4,9$ | Acute Tox. 4 H302, STOT RE 2 H373 |
| EC 203-473-3 | | |
| INDEX 603-027-00-1 | | |
| Reg. no. 01-2119456816-28 | | |
| PROPANE | | |
| CAS 74-98-6 | $0,5 \le x \le 0,9$ | Flam. Gas 1 H220, Press. Gas (Liq.) H280, , Classification note according to Annex VI to the CLP Regulation: U |
| CE 200-827-9 | | |
| INDEX 601-003-00-5 | | |
| Reg. no. 01-2119486944-21 | | |
| BUTANE | | |
| CAS 106-97-8 | $0,2 \le x \le 0,4$ | Flam. Gas 1 H220, Press. Gas (Liq.) H280, Classification note according to Annex VI to the CLP Regulation: C U |
| EC 203-448-7 | | |
| INDEX 601-004-00-0 | | |
| Reg. no. 01-2119474691-32 | | |
| ISOBUTANE | | |
| CAS 75-28-5 | 0,1 ≤ x ≤ 0,2 | Flam. Gas 1 H220, Press. Gas H280, Classification note according to Annex VI to the CLP Regulation: C U |
| EC 200-857-2 | | |
| INDEX 601-004-00-0 | | |
| Reg. no. 01-2119485395-27 | | |

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

The product is an aerosol containing propellants. For the purposes of calculation of the health hazards, propellants are not considered (unless they have health hazards). The percentages indicated are inclusive of the propellants. Percentage of propellants max: 1,50 %.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information for the doctor: symptomatically treatment.

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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

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the 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.

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. If the product is flammable, use explosion-proof equipment. 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. 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

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany): 2B

7.3. Specific end use(s)

Leak detector.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters Regulatory References:



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| BEL DEU DNK ESP | Belgique Deutschland Danmark España | AR du 11/3/2002. La liste est mise à jour pour 2010 TRGS 900 (Fassung 4.11.2016) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte Graensevaerdier per stoffer og materialer INSHT - Límites de exposición profesional para agentes químicos en España 2017 |
|--------------------------|--|---|
| FIN | Suomi | HTP-arvot 2012. Haitallisiksi tunnetut pitoisuudet - Sosiaali- ja terveysministeriön julkaisuja 2012:5 |
| FRA | France | JORF n°0109 du 10 mai 2012 page 8773 texte n° 102 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| NLD | Nederland | Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18 |
| POL | Polska | ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 r |
| PRT | Portugal | Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06 |
| ROU | România | Monitorul Oficial al României 44; 2012-01-19 |
| EU | OEL EU | Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2017 |

| Threshold Limit Value | | | ETHAN | EDIOL | | | | |
|-------------------------------------|---|----------------|-------|---------------------|--------------------|-------|----------|---------------------|
| Type | Country | TWA/8h | | STEL/15min | | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | | |
| МАК | DEU | 26 | 10 | 52 | 20 | SKIN | | |
| TLV | DNK | 26 | 10 | | | SKIN | | |
| VLA | ESP | 52 | 20 | 104 | 40 | SKIN | | |
| HTP | FIN | 50 | 20 | 100 | 40 | SKIN | | |
| VLEP | FRA | 52 | 20 | 104 | 40 | SKIN | | |
| WEL | GBR | 52 | 20 | 104 | 40 | | | |
| VLEP | ITA | 52 | 20 | 104 | 40 | SKIN | | |
| OEL | NLD | 52 | | 104 | | SKIN | | |
| NDS | POL | 15 | | 50 | | | | |
| VLE | PRT | 52 | 20 | 104 | 40 | SKIN | | |
| TLV | ROU | 52 | 20 | 104 | 40 | SKIN | | |
| OEL | EU | 52 | 20 | 104 | 40 | SKIN | | |
| TLV-ACGIH | | | 25 | | 50 | | | |
| TLV-ACGIH | | | | 10 | | INHAL | | |
| Predicted no-effect concentration | n - PNEC | | | | | | | |
| Normal value in fresh water | | | | 10 | mg/l | | | |
| Normal value in marine water | | | | 1 | mg/l | | | |
| Normal value for fresh water see | diment | | | 37 | mg/kg | | | |
| Normal value for marine water s | ediment | | | 3,7 | mg/kg | | | |
| Normal value for water, intermiti | tent release | | | 10 | mg/l | | | |
| Normal value of STP microorga | nisms | | | 199,5 | mg/l | | | |
| Normal value for the terrestrial of | compartment | | | 1,53 | mg/kg | | | |
| Health - Derived no-effect | level - DNEL / I Effects on consumers | DMEL | | | Effects on workers | | | |
| Route of exposure | Acute local | Acute systemic | | Chronic systemic | Chronic local | | | Chronic systemic |
| Inhalation | VND | 7 mg/m3 | | Systemic | | | 35 mg/m3 | VND |
| Skin | | | VND | 53 mg/kg | | | VND | 106 mg/kg |



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| PROPANE | | | | | | |
|-----------------------|---------|--------|------|------------|------|--|
| Threshold Limit Value | | | | | | |
| Туре | Country | TWA/8h | | STEL/15min | | |
| | | mg/m3 | ppm | mg/m3 | ppm | |
| AGW | DEU | 1800 | 1000 | 7200 | 4000 | |
| MAK | DEU | 1800 | 1000 | 7200 | 4000 | |
| TLV | DNK | 1800 | 1000 | | | |
| HTP | FIN | 1500 | 800 | 2000 | 1100 | |
| NDS | POL | 1800 | | | | |
| TLV-ACGIH | | | 1000 | | | |

| | | | BU' | TANE | | | |
|-----------------------|---------|--------|------|------------|------|------|--|
| Threshold Limit Value | e | | | | | | |
| Туре | Country | TWA/8h | | STEL/15min | | | |
| | | mg/m3 | ppm | mg/m3 | ppm | | |
| VLEP | BEL | | 1000 | | | SKIN | |
| AGW | DEU | 2400 | 1000 | 9600 | 4000 | | |
| MAK | DEU | 2400 | 1000 | 9600 | 4000 | | |
| TLV | DNK | 1200 | 500 | | | | |
| VLA | ESP | | 1000 | | | | |
| HTP | FIN | 1900 | 800 | 2400 | 1000 | | |
| VLEP | FRA | 1900 | 800 | | | | |
| WEL | GBR | 1450 | 600 | 1810 | 750 | | |
| OEL | NLD | 1430 | | | | | |
| NDS | POL | 1900 | | 3000 | | | |
| TLV-ACGIH | | | 1000 | | | | |

Legend:

(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.

HAND PROTECTION

None required. SKIN PROTECTION

Wear category I 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, a mask with a type A filter combined with a type P filter should be worn (see standard EN 14387).

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. ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.



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SECTION 9. Physical and chemical properties

| emical properties |
|---------------------------------------|
| foam |
| white |
| odourless |
| Not available |
| Not applicable |
| Not available |
| 1,0 gr/ml |
| in water: total; in aceton: insoluble |
| Not available |
| |
| 1,50 % |
| |

SECTION 10. Stability and reactivity

10.1. Reactivity

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

ETHANEDIOL

In the air absorbs moisture. Decomposes at temperatures above 200°C/392°F.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The product can generate flammable gases in contact with elementary metals (alkalis and alkaline earth), nitrides, strong reducing agents. It can ignite in contact with oxidizing mineral acids, elementary metals (alkalis and alkaline earths), nitrides, peroxides and organic hydroperoxides, oxidizing and reducing agents.

ETHANEDIOL

Risk of explosion on contact with: perchloric acid. May react dangerously with: chlorosulphuric acid, sodium hydroxide, sulphuric acid, phosphorus pentasulphide, chromium (III) oxide, chromyl chloride, potassium perchlorate, potassium dichromate, sodium peroxide, aluminium. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating.

ETHANEDIOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material. Avoid contact with combustible materials, the product may ignite.



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10.6. Hazardous decomposition products

ETHANEDIOL

May develop: hydroxyacetaldehyde, glyoxal, acetaldehyde, methane, carbon monoxide, hydrogen.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

<u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available.

Information on likely routes of exposure ETHANEDIOL WORKERS: inhalation; contact with the skin. POPULATION: inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure ETHANEDIOL

Ingestion initially stimulates the central nervous system; later replaced by a phase of depression. There may be kidney damage, with anuria and uremia. Over-exposure symptoms are: vomiting, drowsiness, difficulty in breathing, convulsions. The lethal dose for humans is approx. 1.4 ml/kg.

Interactive effects Information not available.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

Not classified (no significant component) >2000 mg/kg Not classified (no significant component)

ETHANEDIOL LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

7712 mg/kg Rat > 3500 mg/kg Mouse > 2,5 mg/l Rat

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class.

<u>RESPIRATORY OR SKIN SENSITISATION</u> Does not meet the classification criteria for this hazard class.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

ETHANEDIOL

Available studies have shown no carcinogenic potential. In a carcinogenicity study lasting two years, carried out by the US National Toxicology Program (NTP), in which ethylene glycol was administered in the feed, "no evidence of carcinogenic activity" in male and female B6C3F1 mice was observed (NTP, 1993).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.

STOT - SINGLE EXPOSURE



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Does not meet the classification criteria for this hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information

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

12.1. Toxicity

| ETHANEDIOL | |
|----------------------------|------------------------------------|
| LC50 - for Fish | 72860 mg/l/96h Pimephales promelas |
| EC50 - for Crustacea | > 100 mg/l/48h Daphnia magna |
| Chronic NOEC for Fish | 15380 mg/l Pimephales promelas |
| Chronic NOEC for Crustacea | 8590 mg/l Ceriodaphnia sp. |

12.2. Persistence and degradability

| BUTANE | |
|--|-------------------|
| Solubility in water | 0,1 - 100 mg/l |
| Rapidly degradable | |
| ETHANEDIOL | |
| Solubility in water | 1000 - 10000 mg/l |
| Rapidly degradable | |
| | |
| PROPANE Solubility in water | 0,1 - 100 mg/l |
| Rapidly biodegradable. | |
| | |
| 12.3. Bioaccumulative potential | |
| 12.3. Bioaccumulative potential BUTANE | |
| | 1,09 |
| BUTANE Partition coefficient: n-octanol/water | 1,09 |
| BUTANE Partition coefficient: n-octanol/water ETHANEDIOL | |
| BUTANE Partition coefficient: n-octanol/water | 1,09 -1,36 |
| BUTANE Partition coefficient: n-octanol/water ETHANEDIOL | |
| BUTANE Partition coefficient: n-octanol/water ETHANEDIOL Partition coefficient: n-octanol/water | |

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%.



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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.
- Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

| ADR / RID: | AEROSOLS |
|------------|-------------------------|
| IMDG: | AEROSOLS |
| IATA: | AEROSOLS, NON-FLAMMABLE |

14.3. Transport hazard class(es)

| ADR / RID: | Class: 2 | Label: 2.2 |
|------------|----------|------------|
| IMDG: | Class: 2 | Label: 2.2 |
| IATA: | Class: 2 | Label: 2.2 |



14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

| ADR / RID: | NO |
|------------|----|
| IMDG: | NO |
| IATA: | NO |

14.6. Special precautions for user

| ADR / RID: | HIN - Kemler: | Limited Quantities: 1 L | Tunnel restriction code: (E) |
|------------|----------------------|--------------------------|------------------------------|
| | Special Provision: - | | |
| IMDG: | EMS: F-D, S-U | Limited Quantities: 1 L | |
| IATA: | Cargo: | Maximum quantity: 200 Kg | Packaging instructions: 677 |
| | | | |



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Pass.:

Maximum quantity: 100 Kg

Packaging instructions: 670

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Special Instructions:

-

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Information not relevant.

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: P3a

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 None.

<u>Substances in Candidate List (Art. 59 REACH)</u> On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

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 Information not available.

German regulation on the classification of substances hazardous to water (VwVwS 2005) WGK 1: Low hazard to waters.

15.2. Chemical safety assessment

No chemical safety assessment for the mixture was carried out.

SECTION 16. Other information

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

| Flam. Gas 1 | Flammable gas, category 1 | |
|-------------------|--|--|
| Aerosol 3 | Aerosol, category 3 | |
| Press. Gas (Liq.) | Liquefied gas | |
| Press. Gas | Pressurised gas | |
| Acute Tox. 4 | Acute toxicity, category 4 | |
| STOT RE 2 | Specific target organ toxicity - repeated exposure, category 2 | |
| H220 | Extremely flammable gas. | |
| H229 | Pressurised container: may burst if heated. | |
| H280 | Contains gas under pressure; may burst if heated. | |
| H302 | Harmful if swallowed. | |



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May cause damage to organs through prolonged or repeated exposure.

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. Regulation (EC) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy
- 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.