


Safety Data Sheet (SDS)

# Vortex Interior Plus — Upholstery Cleaner

VRT7301 VRT7302

| | |
|---|---|
| **Product name on SDS** | VORTEX INTERIOR DETAILER |
| **Regulation** | REACH Annex II — Regulation (EU) 2020/878 · CLP (EC) 1272/2008 |
| **Revision / date** | Rev. 1 · 21.05.2024 |
| **Number of pages** | 16 |
| **Supplier** | Setkim Kimya İnş. Taah. Paz. San. Tic. Ltd. Şti. · Divortex / DVX |
| **Emergency** | +90 216 669 03 53 |
| **UFI** | Q52F-JV07-H00R-MAAN |

This cover page identifies the product. The following pages are the official Safety Data Sheet prepared in accordance with applicable regulations and are presented unchanged.

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

**1.1. Product identifier**

Code:

Product name **VORTEX INTERIOR DETAILER**

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

Intended use **not available**

**1.3. Details of the supplier of the safety data sheet**

Name **SETKIM KIMYA INS.TAAH.PAZ.SAN.TIC.LTD.STI.**

Full address **İstanbul Deri Organize Sanayi Bölgesi V1 Nolu Parsel Fikse Cad. No:20**

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**TR**

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e-mail address of the competent person responsible for the Safety Data Sheet **info@divortex.com.tr**

**1.4. Emergency telephone number**

For urgent inquiries refer to **tel. +90 216 669 03 53**

## 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 (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

| | | |
|---|---|---|
| Serious eye damage, category 1 | H318 | Causes serious eye damage. |
| Skin irritation, category 2 | H315 | Causes skin irritation. |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

**2.2. Label elements**

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

Hazard pictograms:



| | |
|---|---|
| Signal words: | Danger |
| Hazard statements: | |
| **H318** | Causes serious eye damage. |
| **H315** | Causes skin irritation. |
| **H412** | Harmful to aquatic life with long lasting effects. |
| Precautionary statements: | |
| **P305+P351+P338** | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| **P280** | Wear protective gloves / eye protection / face protection. |
| **P310** | Immediately call a POISON CENTER / doctor / . . . |
| **P264** | Wash . . . thoroughly after handling. |
| **P273** | Avoid release to the environment. |
| **Contains:** | ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS<br>4-Nonylphenol, branched, ethoxylated<br>Benzenesulfonic acid, 4-C10-13-sec-alkyl<br>SODIUM HYDROXIDE |

**2.3. Other hazards**

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

The product contains substances with endocrine disrupting properties in concentration 0,1%:

4-Nonylphenol, branched, ethoxylated

## SECTION 3. Composition/information on ingredients

**3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

| Identification | x = Conc. % | Classification (EC) 1272/2008 (CLP) |
|---|---|---|
| **WATER**<br>INDEX -<br>80<br>x < 90<br>EC 231-791-2<br>CAS 7732-18-5 | | |
| **4-Nonylphenol, branched, ethoxylated**<br>INDEX -<br>10<br>x < 15<br>EC 500-315-8<br>CAS 127087-87-0 | | Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 2 H411 |
| **PROPAN-2-OL**<br>INDEX 603-117-00-0<br>4<br>x < 5<br>EC 200-661-7<br>CAS 67-63-0 | | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336 |
| **ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS**<br>INDEX -<br>3<br>x < 4<br>EC 500-234-8<br>CAS 68891-38-3 | | Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 |
| **Benzenesulfonic acid, 4-C10-13-sec-alkyl**<br>INDEX -<br>1 | | |

x < 2 — Acute Tox. 4 H302, Skin Corr. 1C H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412
STA Oral: 500 mg/kg

EC 287-494-3

CAS 85536-14-7

**SODIUM HYDROXIDE**

INDEX 011-002-00-6

0.809 x < 0.909 — Skin Corr. 1A H314, Eye Dam. 1 H318

EC 215-185-5

Skin Corr. 1B H314: 2%, Skin Irrit. 2 H315: 0.5%, Eye Dam. 1 H318: 2%, Eye Irrit. 2 H319: 0.5%

CAS 1310-73-2

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

## 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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**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 not available

## SECTION 5. Firefighting measures

**5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Excess pressure may form in containers exposed to fire at a risk of explosion. 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. 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**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. 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 ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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

Regulatory references:

| | | |
|---|---|---|
| ESP | España | Límites de exposición profesional para agentes químicos en España 2021 |
| SWE | Sverige | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1) |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Fourth Edition 2020) |
| | TLV-ACGIH | ACGIH 2022 |

**SODIUM HYDROXIDE**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| VLA | ESP | | | 2 | | |
| NGV/KGV | SWE | 1 | | 2 | | INHAL |
| WEL | GBR | | | 2 | | |
| TLV-ACGIH | | | | 2 (C) | | |

**PROPAN-2-OL**

**Threshold Limit Value**

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|---|---|---|---|---|---|---|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| VLA | ESP | 500 | 200 | 1000 | 400 | |
| NGV/KGV | SWE | 350 | 150 | 600 (C) | 250 (C) | |
| WEL | GBR | 999 | 400 | 1250 | 500 | |
| TLV-ACGIH | | 492 | 200 | 983 | 400 | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

### 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.
The following should be considered when choosing work glove material (see standard EN 374): 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 Regulation 2016/425 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 A 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.

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## SECTION 9. Physical and chemical properties

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

| Properties | Value | Information |
|---|---|---|
| Appearance | Liquid | |
| Colour | not available | |
| Odour | Orange | |
| Melting point / freezing point | not available | |
| Initial boiling point | not available | |
| Flammability | Not flammable | |
| Lower explosive limit | not available | |
| Upper explosive limit | not available | |
| Flash point | not available | |
| Auto-ignition temperature | not available | |
| Decomposition temperature | not available | |
| pH | 7 | |
| Kinematic viscosity | not available | |
| Solubility | Soluble in water | |
| Partition coefficient: n-octanol/water | not available | |
| Vapour pressure | not available | |
| Density and/or relative density | 1,003gr/ ml | |
| Relative vapour density | not available | |
| Particle characteristics | not applicable | |

**9.2. Other information**

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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**

The vapours may also form explosive mixtures with the air.

**10.4. Conditions to avoid**

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

SODIUM HYDROXIDE

Avoid exposure to: air,moisture,sources of heat.

**10.5. Incompatible materials**

SODIUM HYDROXIDE

Incompatible with: strong acids,ammonia,zinc,lead,aluminium,water,flammable liquids.

**10.6. Hazardous decomposition products**

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## SECTION 11. Toxicological information

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.

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

| | |
|---|---|
| ATE (Inhalation) of the mixture: | Not classified (no significant component) |
| ATE (Oral) of the mixture: | >2000 mg/kg |
| ATE (Dermal) of the mixture: | Not classified (no significant component) |

SODIUM HYDROXIDE

| | |
|---|---|
| LD50 (Dermal): | 1350 mg/kg Rat |
| LD50 (Oral): | 1350 mg/kg Rat |

PROPAN-2-OL

| | |
|---|---|
| LD50 (Dermal): | 12800 mg/kg Rat |
| LD50 (Oral): | 4710 mg/kg Rat |
| LC50 (Inhalation vapours): | 72.6 mg/l/4h Rat |

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS

| | |
|---|---|
| LD50 (Dermal): | > 2000 mg/kg Rat |
| LD50 (Oral): | 2870 mg/kg Rat |

Benzenesulfonic acid, 4-C10-13-sec-alkyl

| | |
|---|---|
| STA (Oral): | 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

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

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

## SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

**12.1. Toxicity**

| | |
|---|---|
| ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS | |
| LC50 - for Fish | 7.1 mg/l/96h Danio rerio |
| EC50 - for Crustacea | 7.4 mg/l/48h Daphnia magna |
| EC50 - for Algae / Aquatic Plants | 27.7 mg/l/72h Desmodesmus subspicatus |
| Chronic NOEC for Fish | 0.14 mg/l Oncorhynchus mykiss |
| Chronic NOEC for Crustacea | 0.27 mg/l Daphnia magna |
| Chronic NOEC for Algae / Aquatic Plants | 0.95 mg/l Desmodesmus subspicatus |

**12.2. Persistence and degradability**

| | |
|---|---|
| SODIUM HYDROXIDE | |
| Solubility in water | > 10000 mg/l |
| Degradability: information not available | |
| PROPAN-2-OL | |
| Rapidly degradable | |
| ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS | |
| Solubility in water | 2800 mg/l |
| Rapidly degradable | |

**12.3. Bioaccumulative potential**

PROPAN-2-OL
Partition coefficient: n-octanol/water 0.05

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS
Partition coefficient: n-octanol/water 0.3

**12.4. Mobility in soil**

ALCOHOLS, C12-14, ETHOXYLATED, SULFATES, SODIUM SALTS
Partition coefficient: soil/water 0.34

**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 than 0,1%.

**12.6. Endocrine disrupting properties**

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on the environment and on animal species causing adverse effects on the exposed organisms or on their progeny:

4-Nonylphenol, branched, ethoxylated

**12.7. Other adverse effects**

Information not available

## 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.
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 or ID number**

ADR / RID, IMDG, IATA: 1760

**14.2. UN proper shipping name**

ADR / RID: CORROSIVE LIQUID, N.O.S.

IMDG: CORROSIVE LIQUID, N.O.S.
IATA: CORROSIVE LIQUID, N.O.S.

**14.3. Transport hazard class(es)**

| | | | |
|---|---|---|---|
| ADR / RID: | Class: 8 | Label: 8 |  |
| IMDG: | Class: 8 | Label: 8 | |
| IATA: | Class: 8 | Label: 8 | |

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards**

ADR / RID: NO
IMDG: NO
IATA: NO

**14.6. Special precautions for user**

| | | | |
|---|---|---|---|
| ADR / RID: | HIN - Kemler: 80 | Limited Quantities: 5 L | Tunnel restriction code: (E) |
| | Special provision: 274 | | |
| IMDG: | EMS: F-A, S-B | Limited Quantities: 5 L | |
| IATA: | Cargo: | Maximum quantity: 60 L | Packaging instructions: 856 |
| | Passengers: | Maximum quantity: 5 L | Packaging instructions: 852 |
| | Special provision: | A3, A803 | |

**14.7. Maritime transport in bulk according to IMO instruments**

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/EU: None

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

Product

| | | |
|---|---|---|
| Point | 3 - 40 | |

Contained substance

| | | |
|---|---|---|
| Point | 75 | |
| Point | 46-46a | 4-Nonylphenol, branched, ethoxylated |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

4-Nonylphenol, branched, ethoxylated

Substances subject to authorisation (Annex XIV REACH)

4-Nonylphenol, branched, ethoxylated

Sunset Date: 01/04/2021

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

4-Nonylphenol, branched, ethoxylated - (NONYLPHENOL ETHOXYLATES)

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.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

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

| | |
|---|---|
| **Flam. Liq. 2** | Flammable liquid, category 2 |
| **Acute Tox. 4** | Acute toxicity, category 4 |
| **Skin Corr. 1A** | Skin corrosion, category 1A |
| **Skin Corr. 1C** | Skin corrosion, category 1C |
| **Eye Dam. 1** | Serious eye damage, category 1 |
| **Eye Irrit. 2** | Eye irritation, category 2 |
| **Skin Irrit. 2** | Skin irritation, category 2 |
| **STOT SE 3** | Specific target organ toxicity - single exposure, category 3 |
| **Aquatic Chronic 2** | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| **Aquatic Chronic 3** | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| **H225** | Highly flammable liquid and vapour. |
| **H302** | Harmful if swallowed. |
| **H314** | Causes severe skin burns and eye damage. |
| **H318** | Causes serious eye damage. |
| **H319** | Causes serious eye irritation. |
| **H315** | Causes skin irritation. |
| **H336** | May cause drowsiness or dizziness. |
| **H411** | Toxic to aquatic life with long lasting effects. |
| **H412** | Harmful to aquatic life with long lasting effects. |

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) 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)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII 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.
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Document Number: KDU-A-0-0243
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Document Validity Date: 25.08.2028
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.