

SAFETY DATA SHEET

2E390

1. Product and Company Identification

| | |
|--------------------------------------|--|
| Product identifier | ConvoCare S |
| Other means of Identification | Not available |
| Recommended use | Cleaner for combi steamer. |
| Recommended restrictions | None known. |
| Manufacturer | Convotherm Germany CONVOTHERM Elektrogeräte GmbH Talstrasse 35 82436 Eglfing DE Phone +49 8847 67-0 Emergency number 011 49 89 19240 |
| Supplier | Cleveland Range, LLC 1333 E. 179th St. Cleveland, OH 44110 US |

2. Hazards Identification

| | | |
|------------------------------|-----------------------------------|------------|
| Physical hazards | Corrosive to metals | Category 1 |
| Health hazards | Skin corrosion/irritation | Category 1 |
| | Serious eye damage/eye irritation | Category 1 |
| Environmental hazards | Not classified. | |
| OSHA defined hazards | Not classified. | |
| Label elements | | |



| | |
|--|--|
| Signal word | Danger |
| Hazard statement | May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. |
| Precautionary statement | |
| Prevention | Keep only in original container. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. |
| Response | Absorb spillage to prevent material damage. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: Rinse mouth. Do NOT induce vomiting. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center/doctor. Specific treatment (see this label). |
| Storage | Store locked up. Store in corrosive resistant container with a resistant inner liner. |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Hazard(s) not otherwise classified (HNOC) | None known. |
| Supplemental information | Not applicable. |

3. Composition/Information on Ingredients

| Mixture | Common name and synonyms | CAS number | % |
|-----------------|--------------------------|------------|------|
| Chemical name | | 7664-38-2 | 7-13 |
| Phosphoric acid | | | |

| Chemical name | Common name and synonyms | CAS number | % |
|--|---|------------|-----|
| 1-Dodecanamine, N,N-dimethyl-,N-oxide | | 1643-20-5 | 1-5 |
| Composition comments | US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (l) of §1910.1200. | | |

4. First Aid Measures

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|--|--|
| Inhalation | If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor/. |
| Skin contact | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center/doctor/. Specific treatment (see product label). Wash contaminated clothing before reuse. |
| Eye contact | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor/. |
| Ingestion | If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor/. |
| Most important symptoms/effects, acute and delayed | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
| Indication of immediate medical attention and special treatment needed | Treat patient symptomatically. |
| General information | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes, skin and clothing. Wear rubber gloves and chemical splash goggles. Keep out of reach of children. |

5. Fire Fighting Measures

| | |
|---|---|
| Suitable extinguishing media | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂). |
| Unsuitable extinguishing media | Not available. |
| Specific hazards arising from the chemical | Firefighters should wear a self-contained breathing apparatus. |
| Special protective equipment and precautions for firefighters | Firefighters should wear full protective clothing including self contained breathing apparatus. |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. |
| Hazardous combustion products | May include and are not limited to: Oxides of phosphorus. |
| Explosion data | |
| Sensitivity to mechanical impact | Not available. |
| Sensitivity to static discharge | Not available. |

6. Accidental Release Measures

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|---|---|
| Personal precautions, protective equipment and emergency procedures | Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills in original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Do not discharge into lakes, streams, ponds or public waters. |

7. Handling and Storage

Precautions for safe handling **DANGER -- CORROSIVE**
 Do not get in eyes, on skin or on clothing.
 Use only with adequate ventilation.
 Do not breathe mist or vapor.
 Avoid prolonged exposure.

Use good industrial hygiene practices in handling this material.
 Wear appropriate personal protective equipment.
 When using, do not eat, drink or smoke.
 Wash thoroughly after handling.
 Keep container tightly closed.

Conditions for safe storage, including any incompatibilities Store in corrosive resistant container with a resistant inner liner.
 Keep container tightly closed in a cool, dry and well-ventilated place.
 Store away from direct sunlight. Store locked up.

Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Type | Value |
|---------------------------------|------|---------------------|
| Phosphoric acid (CAS 7664-38-2) | PEL | 1 mg/m ³ |

US. ACGIH Threshold Limit Values

| Components | Type | Value |
|---------------------------------|------|---------------------|
| Phosphoric acid (CAS 7664-38-2) | STEL | 3 mg/m ³ |
| | TWA | 1 mg/m ³ |

US. NIOSH: Pocket Guide to Chemical Hazards

| Components | Type | Value |
|---------------------------------|------|---------------------|
| Phosphoric acid (CAS 7664-38-2) | STEL | 3 mg/m ³ |
| | TWA | 1 mg/m ³ |

Biological limit values No biological exposure limits noted for the ingredient(s).

Exposure guidelines Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

Appropriate engineering controls Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear chemical goggles.

Skin protection Wear appropriate chemical resistant gloves. Confirm with a reputable supplier first.

Hand protection As required by employer code. Rubber apron recommended.

Other Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Respiratory protection Not applicable.

Thermal hazards Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using do not eat or drink.

General hygiene considerations

9. Physical and Chemical Properties

Appearance Liquid

Physical state Liquid.

Form Liquid.

Color Green

Odor Characteristic

Odor threshold Not available.

pH 0 - 1 @ 20C

Melting point/freezing point 212 °F (100 °C)

| | |
|---|-------------------------------|
| Initial boiling point and boiling range | Not available. |
| Pour point | Not available. |
| Specific gravity | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |
| Flash point | Not available. |
| Evaporation rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available. |
| Flammability limit - upper (%) | Not available. |
| Explosive limit - lower (%) | Not available. |
| Explosive limit - upper (%) | Not available. |
| Vapor pressure | 123 hPa @ 50C 23 hPa @ 20C |
| Vapor density | Not available. |
| Relative density | Not available. |
| Solubility(ies) | miscible (@ 20C) |
| Auto-ignition temperature | Not available. |
| Decomposition temperature | Not available. |
| Viscosity | Not available. |
| Other information | |
| Density | 1.08 g/cm ³ @ 20C |

10. Stability and Reactivity

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|------------------------------------|--|
| Reactivity | Reacts violently with alkaline material. |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use. |
| Chemical stability | Stable under recommended storage conditions. |
| Conditions to avoid | Avoid temperatures exceeding the flash point. Do not mix with other chemicals. |
| Incompatible materials | Incompatible with bases. This product may react with reducing agents. |
| Hazardous decomposition products | May include and are not limited to: Oxides of phosphorus. |

11. Toxicological Information

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|--|--|
| Routes of exposure | Eye, Skin contact, Inhalation, Ingestion. |
| Information on likely routes of exposure | |
| Ingestion | Causes digestive tract burns. |
| Inhalation | May cause respiratory tract irritation or chemical burns. |
| Skin contact | Causes severe skin burns. |
| Eye contact | Causes serious eye damage. |
| Symptoms related to the physical, chemical and toxicological characteristics | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. |
| Information on toxicological effects | |
| Acute toxicity | Causes burns. |

| Components | Species | Test Results |
|---|---------------|--------------|
| 1-Dodecanamine, N,N-dimethyl-,N-oxide (CAS 1643-20-5) | | |
| Acute | | |
| Dermal | | |
| LD50 | Not available | |
| Inhalation | | |
| LC50 | Not available | |

| Components | Species | Test Results |
|--|--|--------------|
| Oral LD50 | Mouse | 2700 mg/kg |
| Phosphoric acid (CAS 7664-38-2) | | |
| Acute Dermal LD50 | Rabbit | 2740 mg/kg |
| Inhalation LC50 | Not available | |
| Oral LD50 | Rat | 1530 mg/kg |
| Skin corrosion/irritation | Causes severe skin burns and eye damage. | |
| Exposure minutes | Not available. | |
| Erythema value | Not available. | |
| Oedema value | Not available. | |
| Serious eye damage/eye irritation | Causes serious eye damage. | |
| Corneal opacity value | Not available. | |
| Iris lesion value | Not available. | |
| Conjunctival reddening value | Not available. | |
| Conjunctival oedema value | Not available. | |
| Recover days | Not available. | |
| Respiratory or skin sensitization | | |
| Respiratory sensitization | Not available. | |
| Skin sensitization | Not classified. | |
| Germ cell mutagenicity | Not classified. | |
| Mutagenicity | Not classified. | |
| Carcinogenicity | Not classified. | |
| Reproductive toxicity | Not classified. | |
| Teratogenicity | Not classified. | |
| Specific target organ toxicity - single exposure | Not classified. | |
| Specific target organ toxicity - repeated exposure | Not classified. | |
| Aspiration hazard | Not classified. | |
| Chronic effects | Not classified. | |
| Further information | Not available. | |
| Name of Toxicologically Synergistic Products | Not available. | |

12. Ecological Information

| Ecotoxicity | See below | | Test Results |
|---------------------------------|---|--|---------------------|
| Components | Species | | |
| Phosphoric acid (CAS 7664-38-2) | | | |
| Aquatic | | | |
| Acute Crustacea | LC50 | Water flea (<i>Daphnia magna</i>) | 4.6 mg/l, 12 hr |
| Fish | LC50 | Mosquitofish (<i>Gambusia affinis affinis</i>) | 3 - 3.5 mg/l, 96 hr |
| Persistence and degradability | No data is available on the degradability of this product. | | |
| Bioaccumulative potential | No data available. | | |
| Mobility in soil | No data available. | | |
| Mobility in general | Not available. | | |
| Other adverse effects | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. | | |

13. Disposal Considerations

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| Disposal instructions | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| Local disposal regulations | Dispose in accordance with all applicable regulations. |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. |
| Waste from residues / unused products | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| Contaminated packaging | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. |

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

| | |
|----------------------|--------------------------|
| UN number | UN1805 |
| Proper shipping name | Phosphoric acid solution |
| Hazard class | 8 |
| Packing group | III |
| Special provisions | A7, IB3, N34, T4, TP1 |
| Packaging exceptions | 154 |

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

| | |
|----------------------|-------------------------|
| UN number | UN1805 |
| Proper shipping name | PHOSPHORIC ACID, LIQUID |
| Hazard class | 8 |
| Packing group | III |

DOT



TDG



15. Regulatory Information

| | |
|-------------------------------------|--|
| Canadian federal regulations | This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. |
|-------------------------------------|--|

Canada WHMIS Ingredient Disclosure: Threshold limits

| | |
|---|-----|
| 1-Dodecanamine, N,N-dimethyl-,N-oxide (CAS 1643-20-5) | 1 % |
| Phosphoric acid (CAS 7664-38-2) | 1 % |

| | |
|-----------------------------|------------------------------|
| WHMIS status | Controlled |
| WHMIS classification | Class E - Corrosive Material |

WHMIS labeling



US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Phosphoric acid (CAS 7664-38-2) Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Hazardous Substances (Director's): Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Louisiana Spill Reporting: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Minnesota Haz Subs: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - New Jersey RTK - Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Phosphoric acid (CAS 7664-38-2) Listed.

US - Texas Effects Screening Levels: Listed substance

1-Dodecanamine, N,N-dimethyl-,N-oxide (CAS 1643-20-5) Listed.

Phosphoric acid (CAS 7664-38-2) Listed.

US. Massachusetts RTK - Substance List

Phosphoric acid (CAS 7664-38-2) Listed.

US. Pennsylvania RTK - Hazardous Substances

Phosphoric acid (CAS 7664-38-2) Listed.

US. Rhode Island RTK

Phosphoric acid (CAS 7664-38-2) Listed.

Inventory status

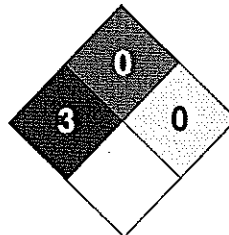
| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

| LEGEND | |
|----------|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | |
|---------------------|-----|
| HEALTH | / 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |
| PERSONAL PROTECTION | X |



Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Further information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.