

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 21.01.2025


Version 4 (replaces version 3)

Revision: 21.01.2025

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

- **1.1 Product identifier**
- **Trade name:** OTTO SilOut
- **UFI:** DRM0-K0HC-M00X-YM9C
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the mixture** Cleaning agent/ Cleaner
- **Uses advised against** Observe the information in the technical data sheet
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hermann Otto GmbH
Krankenhausstraße 14
D-83413 Fridolfing
Tel.: 0049/(0)8684/908-0
Fax.: 0049/(0)8684/908-1840
- **Further information obtainable from:**
Tel.: 0049- (0)8684- 908- 2363 (-4300)
E-Mail: alois.parzinger@otto-chemie.de
- **1.4 Emergency telephone number:**
Tel.: 0049/621/60-43333 (BASF Plant fire brigade)
+44 1865 407333 (Carechem 24)
Tel.: 0049- (0) 89- 192 40 (emergency telephone no.)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
 - **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.
 - **Hazard pictograms**
- 

GHS05
- **Signal word** Danger
 - **Hazard-determining components of labelling:**
Phosphoric acid, 2-ethylhexyl ester
 - **Hazard statements**
H314 Causes severe skin burns and eye damage.
 - **Precautionary statements**
P102 Keep out of reach of children.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection / face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
 - **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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- **Determination of endocrine-disrupting properties**
This product does not contain components that are endocrine disruptors according to UK REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Solvent mixture with additives.

- **Dangerous components:**

CAS: 12645-31-7	Phosphoric acid, 2-ethylhexyl ester	<50%
EINECS: 235-741-0	☞ Skin Corr. 1B, H314; Eye Dam. 1, H318	
Reg.nr.: 01-2119896587-13-0000		
EC number: 918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <	<50%
Reg.nr.: 01-2119457273-39-0000	2% aromatics	
	☞ Asp. Tox. 1, H304, EUH066	

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- **After skin contact**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact**

Rinse opened eye for several minutes under running water. Then consult a doctor.

- **After swallowing**

Do not induce vomiting; call for medical help immediately. Show container or label.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

Dizziness

Nausea

- **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed or in case of vomiting, danger of entering the lungs

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents** Water with full jet.

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

Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**

- **Protective equipment:** Do not inhale explosion gases or combustion gases.

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- **Additional information** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Keep away from ignition sources

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to section 13.

- **6.4 Reference to other sections** See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

see item 8: Personal protective equipment

- **Information about fire - and explosion protection:**

Protect against electrostatic charges.

Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep clear of ignition sources.

Highly volatile, flammable constituents are released during processing.

Flammable gas-air mixtures may form in empty receptacles.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.

Provide solvent resistant, sealed floor.

Prevent any seepage into the ground.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

- **DNELs**

12645-31-7 Phosphoric acid, 2-ethylhexyl ester

Dermal Worker, systemic (long term) 10.42 mg/kg/Tag

Inhalative Worker, systemic (acute) 36.73 mg/m³

Worker, local (acute) 6.25 mg/m³ (rat)

Worker, systemic (long term) 10.87 mg/m³ (rat)

- **Additional information:**

The lists valid during the making were used as basis.

OEL for ingredient Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Recommended occupational exposure limit by the manufacturer (OEL) is 184 ppm per 8-hour work day

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- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.
- **Respiratory protection:**
Use suitable respiratory protective device when high concentrations are present.
- **Hand protection** Protective gloves.
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
Recommended glove material: Butyl rubber, BR
Recommended thickness of the material: >0,4 mm
- **Penetration time of glove material** Breakthrough time: 10 - 30 min
- **Eye/face protection** Tightly sealed goggles.
- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** White
- **Odour:** Characteristic
- **Melting point/freezing point:** undetermined
- **Boiling point or initial boiling point and boiling range** undetermined
- **Lower and upper explosion limit**
- **Lower:** not applicable
- **Upper:** not applicable
- **Flash point:** 65 °C
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** 2
- **Viscosity:** Not determined.
- **Solubility**
- **Water:** Not determined.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Vapour pressure:** Not determined.
- **Density and/or relative density**
- **Density at 20 °C:** 0.9 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not applicable.
- **Particle characteristics** undetermined
- **9.2 Other information**
- **Form:** pasty
- **Ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Information with regard to physical hazard classes**
- **Aerosols** Void

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· Flammable liquids

Void

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
Avoid strong heating.
- **10.3 Possibility of hazardous reactions**
Danger of receptacles bursting because of high vapour pressure when heated
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents, alkalis, amines, strong acids
- **10.6 Hazardous decomposition products:** see item 5.2

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 - **Acute toxicity** Based on available data, the classification criteria are not met.
 - **LD/LC50 values relevant for classification:**
-
- Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**
- | | | |
|------------|----------|--------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rat) |
| Inhalative | LC50/4 h | mg/l (rat) |
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
 - **Serious eye damage/irritation** Causes serious eye damage.
 - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - **STOT-single exposure** Based on available data, the classification criteria are not met.
 - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - **Aspiration hazard** Based on available data, the classification criteria are not met.
 - **11.2 Information on other hazards**
 - **Endocrine disrupting properties**
-
- None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity** No further relevant information available
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
This product does not contain components that are endocrine disruptors according to UK REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.

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Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Liquid residues must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN3265
- **14.2 UN proper shipping name**
- **ADR** 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid, 2-ethylhexyl ester)
- **IMDG** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid, 2-ethylhexyl ester)
- **IATA** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (containing Phosphoric acid, 2-ethylhexyl ester)
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 8 (C3) Corrosive substances.
- **Label** 8

- **IMDG, IATA**
- 
- **Class** 8 Corrosive substances.
- **Label** 8
- **14.4 Packing group**
- **ADR, IMDG, IATA** II
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **14.6 Special precautions for user** Warning: Corrosive substances.
- **Hazard identification number (Kemler code):** 80
- **EMS Number:** F-A,S-B
- **Segregation groups** (SGG1) Acids
- **Stowage Category** B
- **Stowage Code** SW2 Clear of living quarters.
- **Segregation Code** SG36 Stow "separated from" SGG18-alkalis.
SG49 Stow "separated from" SGG6-cyanides
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

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· Transport/Additional information:**· ADR**

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

- **Transport category**
- **Tunnel restriction code**

2
E

· IMDG

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 3265 CORROSIVE LIQUID, ACIDIC,
ORGANIC, N.O.S. (PHOSPHORIC ACID, 2-
ETHYLHEXYL ESTER), 8, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· Poisons Act****· Regulated explosives precursors**

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3**· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· REGULATION (EU) 2019/1148**· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations**· Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.**· Details of international registration status:****Listed on or in accordance with the following inventories:**

UK REACH - Europe listed

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AICS - Australia listed
 DSL- Canada listed
 IECSC - China listed
 ENCS - Japan listed
 NZIoC - New Zealand listed
 PICCS - Philippines listed
 ECL - Korea listed
 TSCA - USA listed
 TCSI - Taiwan not listed

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

H304 May be fatal if swallowed and enters airways.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing SDS:** Tel.: 0049- (0)8684- 908- 2363

· **Contact:** Tel.: 0049- (0)8684- 908- 2363 (-4300)

· **Date of previous version:** 13.12.2022

· **Version number of previous version:** 3

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (UK REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Asp. Tox. 1: Aspiration hazard – Category 1

· *** Data compared to the previous version altered.**

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