

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2016

Version 2

Revision: 24.10.2016

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

- **1.1 Product identifier**
- **Trade name:** **OTTOPUR Cleaner**
- **Application of the substance / the mixture** Cleaning material/ Detergent
- **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)8684/908-539
- **Further information obtainable from:**
Tel.: 0049- (0)8684- 908- 641 (-460)
E-Mail: alois.parzinger@otto-chemie.de
- **1.4 Emergency telephone number:**
Tel.: 0049- (0) 89- 192 40 (emergency telephone no.)
Tel.: 0049/621/60-43333 (BASF Plant fire brigade)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms** GHS02, GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**
acetone
- **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2016

Version 2

Revision: 24.10.2016

Trade name: OTTOPUR Cleaner

(Contd. of page 1)

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

- **Additional information:**

- EUH066 Repeated exposure may cause skin dryness or cracking.

- Buildup of explosive mixtures possible without sufficient ventilation.

- **2.3 Other hazards** Cleaner, 648/2004/CE, contains: 15-< 30% aliphatic hydrocarbons (propellant)

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 67-64-1	acetone	50- 100%
EINECS: 200-662-2	☞ Flam. Liq. 2, H225; ☞ Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 115-10-6	dimethyl ether	< 25%
EINECS: 204-065-8	☞ Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 75-28-5	isobutane	< 25%
EINECS: 200-857-2	☞ Flam. Gas 1, H220; Press. Gas C, H280	
CAS: 74-98-6	propane	< 10%
EINECS: 200-827-9	☞ Flam. Gas 1, H220; Press. Gas C, H280	

- **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.

- **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.

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

- Headache

- Dizziness

- Dizziness

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

- If swallowed, gastric irrigation with added, activated carbon.

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.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2016

Version 2

Revision: 24.10.2016

Trade name: OTTOPUR Cleaner

(Contd. of page 2)

- **5.3 Advice for firefighters**
- **Protective equipment:**
Mount respiratory protective device.
Do not inhale explosion gases or combustion gases.
- **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:**
Dispose contaminated material as waste according to item 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 from heat.
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
Traces of flammable substances may collect in the steam chamber of enclosed systems. Keep clear of ignition sources.
Fumes can combine with air to form an explosive mixture.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurised containers.
Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from oxidising agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
- 67-64-1 acetone**
WEL Short-term value: 3620 mg/m³, 1500 ppm
Long-term value: 1210 mg/m³, 500 ppm
- 115-10-6 dimethyl ether**
WEL Short-term value: 958 mg/m³, 500 ppm
Long-term value: 766 mg/m³, 400 ppm

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2016

Version 2

Revision: 24.10.2016

Trade name: OTTOPUR Cleaner

(Contd. of page 3)

- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **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.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** 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 types: nitrile rubber
Recommended thickness of the material: ≥ 0.7 mm
- **Penetration time of glove material** Breakthrough time: > 480 min
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Aerosol
Colour:	Colourless
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.
- **Change in condition**

Melting point/Melting range:	undetermined
Boiling point/Boiling range:	Not applicable, as aerosol
- **Flash point:** Not applicable, as aerosol
- **Ignition temperature:** > 240 °C
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- **Explosion limits:**

Lower:	1.5 Vol %
Upper:	26.2 Vol %
- **Oxidising properties** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.69 g/cm³
- **Vapour density** Not applicable.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**

Water:	Partly miscible
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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:** Not determined.

GB

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2016

Version 2

Revision: 24.10.2016

Trade name: OTTOPUR Cleaner

(Contd. of page 4)

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Avoid strong heating.
- **10.3 Possibility of hazardous reactions**
Forms explosive gas mixture with air
Danger of receptacles bursting because of high vapour pressure when heated
- **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 toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.
 - **Primary irritant effect:**
 - **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
 - **Serious eye damage/irritation**
Causes serious eye irritation.
 - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
 - **Additional toxicological information:**
-
- Oral Acute toxicity estimate (ATE mix) > 2000 mg/kg (rat)
Dermal Acute toxicity estimate (ATE mix) > 2000 mg/kg (rab)
Inhalative Acute toxicity estimate (ATE mix) > 20 mg/l/4h (rat)
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **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**
May cause drowsiness or dizziness.
 - **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.

SECTION 12: Ecological information

- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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.

GB

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2016

Version 2

Revision: 24.10.2016

Trade name: OTTOPUR Cleaner

(Contd. of page 5)

SECTION 14: Transport information

- 14.1 UN-Number
- ADR, IMDG, IATA
- 14.2 UN proper shipping name
- ADR
- IMDG
- IATA
- 14.3 Transport hazard class(es)
- ADR

UN1950

1950 AEROSOLS

AEROSOLS

AEROSOLS, flammable



- Class
- Label

2 5F Gases.

2.1

- IMDG, IATA



- Class
- Label
- 14.4 Packing group
- ADR, IMDG, IATA
- 14.5 Environmental hazards:
- Marine pollutant:
- 14.6 Special precautions for user
- Danger code (Kemler):
- EMS Number:
- Stowage Code

2.1

2.1

Void

No

Warning: Gases.

-

F-D,S-U

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

- Segregation Code

SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

- Transport/Additional information:

- ADR
- Limited quantities (LQ)
- Excepted quantities (EQ)
- Transport category
- Tunnel restriction code

1L

Code: E0

Not permitted as Excepted Quantity

2

D

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

1L

Code: E0

Not permitted as Excepted Quantity

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 24.10.2016

Version 2

Revision: 24.10.2016

Trade name: OTTOPUR Cleaner

· UN "Model Regulation":

UN1950, AEROSOLS, 2.1

(Contd. of page 6)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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:

EINECS - Europe	listed
AICS - Australia	not listed
DSL/NDSL - Canada	not listed
IECSC - China	not listed
ENCS - Japan	not listed
NZIoC - New Zealand	not listed
PICCS - Philippines	not listed
ECL/KECI - Korea	not listed
TSCA - USA	not listed
NECI - 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.

- **Relevant phrases**
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
- **Department issuing SDS:** Tel.: 0049- (0)8684- 908- 641
- **Contact:** Tel.: 0049- (0)8684- 908- 641 (-460)
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport 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)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- *** Data compared to the previous version altered.**