



Safety data sheet according to 1907/2006/EC, Article 31

Print date: 29.11.2023

Version number 4 (replaces version 3)

last revision on: 29.11.2023

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

1.1 Product identifier

Trade name: **OPN Machine Cleaner Concentrate**

Article number: 16061

UFI: 0XFE-71G1-T00D-0XHS

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

No further relevant information available.

Use of the substance / mixture

Alkaline cleaner

For industrial use only.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

OPN-CHEMIE GmbH

In der Au 14

D-57290 Neunkirchen/Germany

Phone: +49 (0) 2735/7725-0

E-Mail: info@opn-chemie.de

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Responsible department:

Safety data sheets Ms. Barbara Angelika Gros-Petri

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1.4 24-hour emergency number:

Poison Information Center Freiburg +49 (0) 761 / 192 40

ABSCHNITT 2: Possible Dangers

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008



GHS05 Corrosivity

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008

The product is classified and labeled according to the CLP Regulation.

Hazard pictograms



GHS05

Signal word: **Danger**

Hazard-determining components of labeling:

2-Aminoethanol

Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts

Isotridecanol, ethoxylated

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· Hazard statements

- H315 Causes skin irritation.
H318 Causes serious eye damage.

· Precautionary statements

- P264 Wash hands thoroughly after handling.
P280 Wear eye protection / face protection..
P302+P 352 IF ON SKIN: Wash with plenty of soap and water.
P310 Immediately call a POISON CENTER/doctor/manufacture.
P305+P 351+P 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362 Take off contaminated clothing.
P501 Dispose of contents / container in accordance with national regulations of the disposal.

· Additional information: Not applicable**· 2.3 Other hazards****· Results of PBT and vPvB assessment****· PBT:**

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or does not meet the PBT criteria according to Annex XIII of Regulation (EC) 1907/2006 (< 0.1%).

· vPvB:

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or does not meet the vPvB criteria according to Annex XIII of Regulation (EC) 1907/2006 (< 0.1%).

· Determination of endocrine-disrupting properties

The mixture does not contain any substance with endocrine-disrupting properties (< 0.1%).

SECTION 3: Composition/Information on ingredients

3.2 Mixtures**· Description:** Cleaning agent**· Dangerous ingredients:**

| | | |
|---|---|---------|
| CAS: 7320-34-5 EINECS: 230-785-7 Reg.no.: 01-2119489369-18 | Tetrapotassium diphosphate ⚠ Eye Irrit. 2, H319 | 2-<5% |
| CAS: 141-43-5 EINECS: 205-483-3 Reg.no.: 01-2119486455-28 | 2-Aminoethanol ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; STOT SE 3, H335 Aquatic Chronic 3, H412 Specific concentration limit: STOT SE 3; H335: C ≥ 5 % | 2-<5% |
| CAS: 68081-81-2 EINECS: 268-356-1 | Benzenesulfonic acid, mono-C10-16-alkyl derivatives, sodium salts ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315 | 1-<2,5% |
| CAS: 9043-30-5 polymer | Isotridecanol, ethoxylated ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302 | 1-<2,5% |

· Additional information: For the wording of the listed hazard phrases, see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**· General information:**

Consult a doctor if symptoms persist.

No special measures required.

· After inhalation: Supply fresh air. Consult a doctor if symptoms persist.

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- **After skin contact:** Wash immediately with soap and water and rinse thoroughly.
- **After eye contact:** Rinse eyes under running water for several minutes while keeping the eyelids open.
Consult a doctor if symptoms persist.
- **After swallowing:**
Rinse mouth and drink plenty of water (max. 2 glasses).
Do not induce vomiting; seek medical attention immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Treatment according to the doctor's assessment of the condition. Show the safety data sheet and label to the affected person.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- **Suitable extinguishing agents:**
CO₂, extinguishing powder, or water spray. Fight larger fires with a water spray or alcohol-resistant foam.
Adapt fire-fighting measures to the surrounding environment.
- **For safety reasons unsuitable extinguishing agents:** Full water jet
- **5.2 Special hazards arising from the substance or mixture**
In case of fire the following may be released:
Carbon monoxide
Sulfur dioxide (SO₂)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
- **Further information**
Cool endangered containers with a water spray.
Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear personal protective clothing.
Particular risk of slipping due to leaked/spilled product.
- **6.2 Environmental protection measures:**
Do not allow to enter drains/surface water/groundwater.
If product enters waterways or sewers, notify the relevant authorities.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to Section 13.
Clean the accident site thoroughly; suitable methods are:
Water
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protective equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
The usual precautions for handling chemicals must be observed.

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- Avoid contact with eyes and skin.
- Keep container tightly sealed.
- **Information on fire and explosion protection:**
 - No special measures required.
 - The product is non-flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
 - **Requirements to be met by storage rooms and containers:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information on storage conditions:**
 - Store in a dry place at 10 - 25 °C.
 - Protect from heat and direct sunlight.
 - Keep locked up and out of reach of children.
- **Storage class:** 10 to 13
- **Classification according to the German Industrial Safety Ordinance (BetrSichV):** -
- **7.3 Specific end use(s):** No further relevant information available.

SECTION 8: Exposure controls/ personal protective equipment

· 8.1 Parameters to be monitored

Components with workplace-related limit values to be monitored:

141-43-5 2-Aminoethanol

| | |
|-----|--|
| AGW | Long-term value: 0.5 mg/m ³ , 0.2 ml/m ³ 1(I);DFG, EU, H, Y, Sh, 11 |
|-----|--|

- **Additional information:** The lists valid during the compilation were used as a basis.

· 8.2 Exposure controls

- Suitable engineering controls: No further data; see section 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygiene measures:
 - The usual precautions must be observed when handling chemicals.
 - Avoid contact with eyes and skin.
 - Remove contaminated, soaked clothing immediately.
 - Wash hands before breaks and at the end of work.
- Respiratory protection: Not required.
- Hand protection:
 - Alkali-resistant gloves
 - The glove material must be impermeable and resistant to the product/substance/preparation.
 - Selection of the glove material taking into account the penetration times, permeation rates, and degradation.
 - Protective gloves according to EN 374
 - Check the tightness of the gloves each time they are reused.
 - Glove material:
 - Nitrile rubber
 - Recommended material thickness: ³ 0.5 mm
 - Perforation time: ³ 480 minutes (Permeation according to EN 374 Part 3: Level 6)
 - Chloroprene rubber
 - Recommended material thickness: ³ 0.6 mm
 - Perforation time: ³ 480 minutes (Permeation according to EN 374 Part 3: Level 6)
 - The selection of suitable gloves depends not only on the material, but also on other quality characteristics and varies from manufacturer to manufacturer. Since the product is a preparation of several substances, the resistance of the glove material cannot be predicted and must therefore be checked prior to use.

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- **Penetration time of glove material**

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The exact breakthrough time must be determined from the protective glove manufacturer and must be observed. The breakthrough times determined according to EN 16523-1:2015 are not tested under practical conditions. Therefore, a maximum wearing time corresponding to 50% of the breakthrough time is recommended.

- **Eye/face protection**



Tightly sealed safety goggles

Safety goggles should comply with DIN EN 166 or a similar standard.

- **Body protection:** protective work clothing

- **Limiting and monitoring environmental exposure** Use the product economically.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General information**

| | |
|--|-------------------------------|
| · Aggregate state | Fluid |
| · Colour | Yellow |
| | Cloudy |
| · Odor: | Neutral |
| · Odor threshold: | Not determined. |
| · Melting point/freezing point:: | Not determined. |
| · Boiling point or initial boiling point, boiling range | > 100 °C |
| · Flammability | Not applicable. |
| · Lower and upper explosion limits | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Flash point: | Not applicable. |
| · Decomposition temperature: | Not determined. |
| · pH value at 20 °C: | ~ 11 (< 11,5) |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |
| · Dynamic: | Not determined. |
| · Solubility | |
| · Water: | Soluble. |
| · Partition coefficient n-octanol/water (log value) | Not determined. |
| · Vapor pressure: | Not determined. |
| · Density and/or relative density | |
| · Density at 20 °C: | 1,02 - 1,04 g/cm ³ |
| · Relative density | Not determined. |
| · Vapor density | Not determined. |
| · Relative vapor density | Not determined. |
| · Particle properties | Not applicable. |

- **9.2 Other information**

| | |
|---|-----------------------------------|
| · Appearance: | |
| · Form: | Fluid |
| · Important information on health, safety and environmental protection | |
| · Ignition temperature: | The product is not self-igniting. |
| · Explosive properties: | The product is not explosive. |
| · Solvent content: | |
| · Solids content: | < 10 % |
| · Change in condition: | |
| · Softening point or range | |
| · Oxidizing properties: | Not applicable. |

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| | |
|---------------------------|----------------|
| · Evaporation rate | not determined |
|---------------------------|----------------|

| | |
|---|----------------|
| · Information on physical hazard classes | |
| · Explosive substances/mixtures and articles containing explosives | not applicable |
| · Flammable gases | not applicable |
| · Aerosols | not applicable |
| · Oxidizing gases | not applicable |
| · Gases under pressure | not applicable |
| · Flammable liquids | not applicable |
| · Flammable solids | not applicable |
| · Self-reactive substances and mixtures | not applicable |
| · Pyrophoric liquids | not applicable |
| · Pyrophoric solids | not applicable |
| · Self-heating substances and mixtures | not applicable |
| · Substances and mixtures which, in contact with water, emit flammable gases | not applicable |
| · Oxidizing liquids | not applicable |
| · Oxidizing solids | not applicable |
| · Organic peroxides | not applicable |
| · Substances and mixtures corrosive to metals | not applicable |
| · Desensitized substances/mixtures and articles containing explosives | not applicable |

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 as intended.
- **10.3 Possibility of hazardous reactions**
 Reactions with strong oxidizing agents.
 Reactions with strong acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
 strong oxidizing agents
 strong acids
- **10.6 Hazardous decomposition products:** No hazardous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes according to Regulation (EC) No. 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

| | | |
|--|------|---------------------------------|
| · Classification-relevant LD/LC50 values: | | |
| 7320-34-5 Tetrapotassium diphosphate | | |
| Oral | LD50 | >2,000 mg/kg (mouse) |
| 141-43-5 2-Aminoethanol | | |
| Oral | LD50 | 1,515 mg/kg (rat) |
| Dermal | LD50 | 1,000 mg/kg (rabbit) |
| 9043-30-5 Isotridecanol, ethoxylated | | |
| Oral | LD50 | 1.000-2.000 mg/kg (rat) (CESIO) |

- **Skin corrosion/irritation**

Causes skin irritation.

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- **Serious eye damage/irritation**
- **Causes serious eye damage.**
- **Respiratory or skin sensitization**
- **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.
- **Specific target organ toxicity (STOT) - single exposure**
- Based on available data, the classification criteria are not met.
- **Specific target organ toxicity (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.**
- **Additional toxicological information:**
- **Repeated dose toxicity:** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): No further relevant information available.**
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**
- None of the ingredients are included.

SECTION 12: Environmental information

· 12.1 Toxicity

Aquatic toxicity:

141-43-5 2-Aminoethanol

| | |
|------|----------------------------------|
| EC50 | 65 mg/l (daphnia magna) (48 h) |
| LC50 | 224 mg/l (fish) (Leuciscus idus) |
| NOEC | 0,85 mg/l (daphnia magna) (21 d) |
| | 1,2 mg/l (fish) (30 d) |

- **12.2 Persistence and degradability:** The surfactants contained are readily biodegradable.
- **12.3 Bioaccumulative potential:** Bioaccumulation is not likely.
- **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**
- The product does not contain any substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- Additional ecological information:
- General information:
- The surfactant(s) contained in this preparation fulfills(comply) the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Documents confirming this are held at the disposal of the competent authorities of the Member States and will be made available only to them, either directly or at the request of a detergent manufacturer.
- The product is free of organically bound halogens (AOX-free).
- Do not allow undiluted product or large quantities of it to enter groundwater, watercourses, or sewage systems.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Disposal must be in accordance with official regulations.

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· European Waste Catalogue

| | |
|----------|---|
| 20 01 30 | Detergents other than those mentioned in 20 01 29 |
| 15 01 02 | Plastic packaging |

· Uncleaned packaging:
· Recommendation:

Disposal in accordance with official regulations.

Contaminated packaging should be emptied thoroughly; after appropriate cleaning, it can then be recycled.

· Recommended cleaning agent: Water, with the addition of cleaning agents if necessary.

SECTION 14: Transport information

· 14.1 UN-number or ID-number
· ADR, ADN, IMDG, IATA not applicable

· 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA not applicable

· 14.3 Transport hazard classes
· ADR, ADN, IMDG, IATA
· class not applicable

· 14.4 Packaging group
· ADR, IMDG, IATA not applicable

· 14.5 Environmental hazards:
· Marine pollutant: no

· 14.6 Special precautions for the user not applicable

· 14.7 Bulk cargo transport by sea according to IMO instruments

not applicable

· UN "Model Regulation":

not applicable

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· Directive 2012/18/EU
· Named dangerous substances - ANNEX I None of the ingredients are listed.

· 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 are included.

· VERORDNUNG (EU) 2019/1148
· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper concentration limit for an authorisation under Article 5(3))

None of the ingredients are included.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients are included.

· Regulation (EC) No. 273/2004 regarding drug precursors

None of the ingredients are included.

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

None of the ingredients are included.

· National regulations:
· Information on employment restrictions:

Observe employment restrictions for young people.

Observe employment restrictions for expectant and breastfeeding mothers, if applicable.

· Major Accident Ordinance: Major Accident Ordinance, Annex: not mentioned.

· Water Hazard Class: Water Hazard Class 1 (Self-assessment): slightly hazardous to water.

· 15.2 Chemical Safety Assessment:

A chemical safety assessment has not been carried out because it is not required for mixtures.

SECTION 16: Other information

The information is based on our current knowledge; however, it does not constitute a guarantee of product properties and does not establish a contractual relationship. Liability excluded.

· Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long-lasting effects.

· Training instructions

Instructions on hazards and protective measures based on the operating instructions (TRGS 555). The instructions must be given before starting employment and at least once a year thereafter.

· Classification according to Regulation (EC) No. 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No. 1272/2008.

· Version number of previous version: 3
· Abbreviations and acronyms:

CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)

REACH: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

EC50: effective concentration, 50 percent

AGW: Arbeitsplatzgrenzwert (Workplace exposure limit, OEL)

DFG: Deutsche Forschungsgemeinschaft (German Research Foundation)

OECD: Organisation für wirtschaftliche Zusammenarbeit und Entwicklung (Organization for Economic Co-operation and Development)

NOEC: No Observed Effect Concentration

MARPOL: Internationale Übereinkommen von 1973 zur Verhütung der Meeresverschmutzung durch Schiffe

IBC-Code: Internationale Code für den Aufbau und die Ausrüstung von Schiffen, die gefährliche Chemikalien im Gepäck tragen (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk)

UN: Vereinte Nationen (United Nations)

EmS-Nummer: Emergency Schedule (Unfallmerkbblätter)

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

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GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 VCI: Verband der chemischen Industrie, Deutschland (German chemical industry association)
 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)
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: persistent, bioaccumulative, toxic (persistent, bioakkumulierend und toxisch)
 vPvB: very persistent, very bioaccumulative (sehr persistent, sehr bioakkumulierend)
 Acute Tox. 4: Acute toxicity – Category 4 (Akute Toxizität – Kategorie 4)
 Skin Corr. 1B: Skin irritant/corrosive effect – Category 1B
 Skin Irrit. 2: Skin irritant/corrosive effect – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Aquatic Chronic 3: Hazardous to waters - long-term hazard to waters - Category 3

· **Sources**

This data sheet was prepared using the relevant SDSs for the raw materials, data from ECHA databases, current literature references, and ECHA's guidance on the compilation of safety data sheets.

· *** Data changed compared to the previous version**