



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

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

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

#### 1.1 Product identifier

**Trade name** OPN-Industrial Cleaner Concentrate**Article number:** 16121**UFI:** X2NE-K1VV-6003-PEGN

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

No further relevant information available.

**Application of the substance / the mixture** Cleaner

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

OPN-CHEMIE GmbH

In der Au 14

D-57290 Neunkirchen

www.opn-chemie.de

**Informing department:** Barbara Angelika Gros-Petri

E-Mail (competent person) baerbel.petri@opn-chemie.de

#### 1.4 Emergency telephone number:

Vergiftungs-Informations-Zentrale Freiburg +49(0)761/19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin Irrit. 2 H315 Causes skin irritation.

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:**

2-aminoethanol

Alcohol, iso-C13, ethoxylated (7-14 EO)

#### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of 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.

P310 Immediately call a POISON CENTER/doctor.

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

#### Trade name: OPN-Industrial Cleaner Concentrate

P332+P313 If skin irritation occurs: Get medical advice/attention. (Contd. of page 1)  
 P501 Dispose of contents / container in accordance with national regulations of the disposal.

#### Additional information:

EUH208 Contains Orange terpenes. May produce an allergic reaction.

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### Determination of endocrine-disrupting properties

The substance/mixture does not contain components in quantities of 0.1% or more considered to have endocrine disrupting properties according to UK REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture of the substances listed below with harmless additions

#### Dangerous components:

CAS: 97489-15-1 EC number: 307-055-2 Reg.nr.: 01-2119489924-20	Sulfonic acids, C14-17-sec-alkane, sodium salts ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 10 % Eye Dam. 1; H318: C ≥ 15 % Eye Irrit. 2; H319: 10 % ≤ C < 15 %	≥2.5-<10%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate ☠ Eye Irrit. 2, H319	≥2.5-<10%
CAS: 141-43-5 EINECS: 205-483-3 Reg.nr.: 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-<10%
CAS: 9043-30-5 Polymer	Alcohol, iso-C13, ethoxylated (7-14 EO) Alternative CAS number: 69011-36-5 ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302	≥1-<2.5%
CAS: 15763-76-5 EINECS: 239-854-6 Reg.nr.: 01-2119489411-37	sodium p-cumenesulphonate ☠ Eye Irrit. 2, H319	≥1-<2.5%
CAS: 164524-02-1 EC number: 629-764-9 Reg.nr.: 01-2119489427-24	potassium p-cumenesulphonate ☠ Eye Irrit. 2, H319	≥1-<2.5%
CAS: 8028-48-6 EINECS: 232-433-8 Reg.nr.: 01-2119493353-35	Orange terpenes ☠ Flam. Liq. 3, H226; ☠ Asp. Tox. 1, H304; ☠ Aquatic Chronic 2, H411; ☠ Skin Irrit. 2, H315; Skin Sens. 1, H317	<1%

#### Regulation (EC) No 648/2004 on detergents / Labelling for contents

anionic surfactants, phosphates, non-ionic surfactants, aliphatic hydrocarbons <5%

(Contd. on page 3)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 2)

**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 advice:** Change contaminated clothing

##### After inhalation

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

##### After skin contact

Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention.

##### After eye contact

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

**After swallowing** Do not induce vomiting. Drink plenty of water. Call for medical help.

#### 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

Risk of aspiration. If necessary, give antifoam before vomiting or gastric lavage.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents

Use fire fighting measures that suit the environment.

Carbon dioxide, extinguishing powder, water jet or alcohol-resistant foam.

#### 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire:

Carbon oxides (CO<sub>x</sub>)

organic decomposition products

sulphur oxides (SO<sub>x</sub>)

#### 5.3 Advice for firefighters

##### Protective equipment:

See section 8.

Wear full protective suit with self-contained breathing apparatus.

##### Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment and keep unprotected persons away.

#### 6.2 Environmental precautions:

Dilute with much water.

Do not allow to enter drainage system, surface or ground water.

If large amounts are released, the authorities must be informed.

#### 6.3 Methods and material for containment and cleaning up:

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

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 3)

Contaminated material has to be disposed as waste (see item 13).

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling** Keep containers tightly sealed.

**Information about protection against explosions and fires:**

Pay attention to general rules of internal fire prevention.

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

**Storage** Keep containers tightly closed. Store in cool, dry conditions.

**Requirements to be met by storerooms and containers:**

Observe official regulations on storage and handling of water hazardous substances

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** None.

**Storage class**

12 Non-flammable liquids (TRGS 510, Storage of hazardous substances in portable containers)

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

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

**Components with critical values that require monitoring at the workplace:**

**CAS: 141-43-5 2-aminoethanol (≥2.5-<10%)**

WEL (Great Britain)	Short-term value: 7.6 mg/m <sup>3</sup> , 3 ppm
	Long-term value: 2.5 mg/m <sup>3</sup> , 1 ppm
	Sk

AGW (Germany)	Long-term value: 0.5 mg/m <sup>3</sup> , 0.2 ppm
	1(l);DFG, EU, H, Y, Sh, 11

#### DNELs

**CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts**

Oral	DNEL (population)	7.1 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	5 mg/kg bw/day (Long-term - systemic effects)
	DNEL (population)	3.57 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	2.8 mg/cm <sup>2</sup> (Acute - local effects)
	DNEL (population)	2.8 mg/cm <sup>2</sup> (Acute - local effects)
Inhalative	DNEL (worker)	35 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (population)	12.4 mg/m <sup>3</sup> (Long-term - systemic effects)

**CAS: 141-43-5 2-aminoethanol**

Oral	DNEL (population)	1.5 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (worker)	3 mg/kg bw/day (Long-term - systemic effects)

(Contd. on page 5)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 4)

Inhalative	DNEL (population)	1.5 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	1 mg/m <sup>3</sup> (Long-term - systemic effects)
		0.51 mg/m <sup>3</sup> (Long-term - local effects)
	DNEL (population)	0.18 mg/m <sup>3</sup> (Long-term - systemic effects)
		0.28 mg/m <sup>3</sup> (Long-term - local effects)

**CAS: 7320-34-5 tetrapotassium pyrophosphate**

Inhalative	DNEL (worker)	17.63 mg/m <sup>3</sup> (Long-term - systemic effects)
	DNEL (population)	4.35 mg/m <sup>3</sup> (Long-term - systemic effects)

**PNECs**

**CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts**

PNEC	0.04 mg/l (fresh water)
	0.004 mg/l (marine water)
PNEC	9.4 mg/kg dw (soil)
PNEC sediment	9.4 mg/kg dw (fresh water)
	0.94 mg/kg dw (marine water)
PNEC STP	600 mg/l (STP (sewage treatment plant))

**CAS: 141-43-5 2-aminoethanol**

PNEC aqua	0.07 mg/l (fresh water)
	0.007 mg/l (marine water)
PNEC	100 mg/l (STP (sewage treatment plant))
PNEC	1.29 mg/kg dw (soil)
PNEC sediment	0.357 mg/kg dw (fresh water)
PNEC sediment	0.036 mg/kg dw (marine water)

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

### 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**

Keep away from food, beverages and fodder.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Gases, fumes and aerosols should not be inhaled.

**Breathing equipment:** Not necessary if room is well-ventilated.

**Hand protection**

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Nitrile rubber, NBR

Butyl rubber, BR

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. As the product is a preparation of several

(Contd. on page 6)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 5)

substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye/face 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**

<b>Physical state</b>	Fluid
<b>Colour:</b>	Blue
<b>Smell:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Not determined
<b>Boiling point or initial boiling point and boiling range</b>	>100 °C
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	Product is non-flammable nor potentially explosive
<b>Auto-ignition temperature:</b>	(lowest level for individual components)
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	ca. 11-12
<b>pH-value:</b>	
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
<b>dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>Water:</b>	Fully miscible
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density</b>	
<b>Density at 20 °C</b>	ca. 1.04 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.

### 9.2 Other information

**Appearance:**

**Form:** Fluid

**Important information on protection of health and environment, and on safety.**

**Self-inflammability:** Product is not selfigniting.

**Explosive properties:** Product is not potentially explosive

(Contd. on page 7)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 6)

**Change in condition****Evaporation rate**

Not determined.

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

## 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.

**10.3 Possibility of hazardous reactions** No dangerous reactions known

**10.4 Conditions to avoid** No further relevant information available.

**10.5 Incompatible materials:**

Strong acids

oxidants

**10.6 Hazardous decomposition products:**

Thermal decomposition can produce a variety of compounds, the precise nature of which will depend on the decomposition conditions.

## 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 that are relevant for classification:****ATE (Acute Toxicity Estimates)**

Oral	LD50	>7,377-12,263 mg/kg (rat)
Inhalative	LC 50 / 4 h	367 mg/l

(Contd. on page 8)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 7)

**CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts**

Oral	LD50	>500-2,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (mouse)

**CAS: 141-43-5 2-aminoethanol**

Oral	LD50	1,089 mg/kg (rat)
Dermal	LD50	2,504 mg/kg (rabbit)

**CAS: 9043-30-5 Alcohol, iso-C13, ethoxylated (7-14 EO)**

Oral	LD50	500 mg/kg (rat) (CESIO-Empfehlung, Literaturwerte (300-2000 mg/kg))
Dermal	LD50	>2,000 mg/kg (rabbit)

**Skin corrosion/irritation** Causes skin irritation.

**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.

**Additional toxicological information:**

**Sensitisation**

Contains ingredient(s), which is (are) sensitizing, but not in amounts, which cause a classification of the preparation as sensitizing. See also comments under section 2 (Special labelling of certain preparations).

**11.2 Information on other hazards**

**Endocrine disrupting properties**

Not all ingredients are listed

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:**

**CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts**

LC 50 / 96 h	8.4 mg/l (Leuciscus idus)
EC 50 / 48 h	9.81 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h	>61 mg/l (Scenedesmus subspicatus) (OECD 201)
NOEC	0.85 mg/l (Oncorhynchus mykiss) (28 d)
	0.36 mg/l (Daphnia magna) (22 d)

**CAS: 141-43-5 2-aminoethanol**

LC 50 / 96 h	150 mg/l (Oncorhynchus mykiss)
	170 mg/l (Carassius auratus)
EC 50 / 48 h	65 mg/l (Daphnia magna)
EC 50 / 72 h	2.8 mg/l (Pseudokirchneriella subcapitata)

(Contd. on page 9)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 8)

NOEC	0.85 mg/l ( <i>Daphnia magna</i> )
NOEC / 72 h	1 mg/l ( <i>Selenastrum capricornutum</i> )
EC 10	0.7 mg/l (Algae) (72h)

#### 12.2 Persistence and degradability

**CAS: 97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts**

Biodegradability 78 % (OECD 301 B)

**CAS: 9043-30-5 Alcohol, iso-C13, ethoxylated (7-14 EO)**

Biodegradability >60 % (OECD 301 B) (Literaturwerte)

**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

The product does not contain substances with endocrine disrupting properties.

#### 12.7 Other adverse effects

**Additional ecological information:**

**General notes:**

Water hazard class 2 (Self-assessment): hazardous for water according to German AwSV.

Do not allow product to reach ground water, water bodies or sewage system.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.

##### Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

##### Waste disposal key number:

Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

**Uncleaned packagings:** Disposal must be made according to official regulations.

##### Recommendation:

After complete emptying and cleaning, send to be reconditioned or recycled.

Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.

Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

GB

(Contd. on page 10)

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

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 9)

### SECTION 14: Transport information

**14.1 UN number or ID number**

ADR, IMDG, IATA

Void

**14.2 UN proper shipping name**

ADR, IMDG, IATA

Void

**14.3 Transport hazard class(es)**

ADR, IMDG, IATA

Class

Void

**14.4 Packing group**

ADR, IMDG, IATA

Void

**14.5 Environmental hazards:****Marine pollutant:**

No

**14.6 Special precautions for user**

Not applicable.

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

Not applicable.

**Transport/Additional information:**

Not dangerous according to the above specifications.

**UN "Model Regulation":**

Void

### SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****TSCA (Toxic Substances Control Act)**

Not all ingredients are listed

**Canadian Domestic Substances List (DSL)**

Not all ingredients are listed

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)**

All ingredients are listed.

**Chinese Chemical Inventory of Existing Chemical Substances (IECSC)**

All ingredients are listed.

**Australian Inventory of Industrial Chemicals (AIIC)**

Not all ingredients are listed

**Korean Existing Chemical Inventory (KECI)**

All ingredients are listed.

**New Zealand Inventory of Chemicals (NZIoC)**

All ingredients are listed.

(Contd. on page 11)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 10)

**Taiwan Chemical Substance Inventory (TCSI)**

All ingredients are listed.

**Japan - Existing Chemical Substances (ENCS)**

Not all ingredients are listed

**Directive 2012/18/EU**

**Named dangerous substances - ANNEX I (12. BImSchV)** Not all ingredients are 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**

Not all ingredients are listed

**REGULATION (EU) 2019/1148**

**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Not all ingredients are listed

**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Not all ingredients are listed

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

Not all ingredients are listed

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

Not all ingredients are listed

**National regulations**

**Information about limitation of use:**

Employment restrictions concerning young persons must be observed.

**Technical instructions (air):**

Class	Share in %
I	≥2.5-<10
NK	<1

**Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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

## SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. In accordance with Annex II of EC No 1907/2006 as applicable on the date of this safety data sheet.

**Registration-Number**

**Relevant phrases**

Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

(Contd. on page 12)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 09.10.2023

Version number 101 (replaces version 1)

Revision: 09.10.2023

**Trade name: OPN-Industrial Cleaner Concentrate**

(Contd. of page 11)

H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**Version number of previous version: 1**

**Abbreviations and acronyms:**

LEV: Local Exhaust Ventilation  
 RPE: Respiratory Protective Equipment  
 RCR: Risk Characterisation Ratio (RCR= PEC/PNEC and RCR= Estimated Exposition/DNEL)  
 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 Harmonized System of Classification and Labelling of Chemicals  
 GB CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)  
 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)  
 TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)  
 DNEL: Derived No-Effect Level (UK REACH)  
 PNEC: Predicted No-Effect Concentration (UK REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 vPvB: very Persistent and very Bioaccumulative  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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