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

· 1.1 Product identifier

·Trade name: OPN-Rust Remover Clear

·Article number: 60456

· Unique formula identifier (UFI): YYCD-J593-600A-HMRV

· 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 Lubricant

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

OPN-CHEMIE GmbH

In der Au 14

57290 Neunkirchen

www.opn-chemie.de

· Further information obtainable from:

Barbara Angelika Gros-Petri

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

· 1.4 Emergency telephone number:

Emergency information service Vergiftungs-Informations-Zentrale Freiburg +49 (0) 761 / 1 92 40

#### **SECTION 2: Hazards identification**

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



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

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- · 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

- · Signal word Danger
- · Hazard-determining components of labelling:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics

Distillates (petroleum), hydrotreated light naphthenic

· Hazard statements

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

· 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 vapours or spray.

P271 Use only outdoors or in a well-ventilated area.

P312 Call a POISON CENTER/doctor if you feel unwell.

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

P501 Dispose of contents / container in accordance with national regulations of the disposal.

· Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Buildup of explosive mixtures possible without sufficient ventilation.

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- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

### **SECTION 3: Composition/information on ingredients**

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
EC number: 918-481-9 Reg.nr.: 01-2119457273-39-xxxx	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics  Asp. Tox. 1, H304	25-<50%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-xxxx	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<20%
CAS: 64742-53-6 EINECS: 265-156-6 Reg.nr.: 01-2119480375-34-xxxx	Distillates (petroleum), hydrotreated light naphthenic Asp. Tox. 1, H304	10-<20%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10-<20%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5-<10%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-xxxx	2-butoxyethanol Acute Tox. 3, H311; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg	1-<2.5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

- $\cdot$  4.1 Description of first aid measures
- · After inhalation:

Supply fresh air; consult doctor in case of complaints.

Take affected persons into fresh air and keep quiet.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately remove any clothing soiled by the product.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Do not induce vomiting; call for medical help immediately.
- $\cdot$  4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

 $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

Fire-extinguishing powder

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Carbon dioxide

Use fire extinguishing methods suitable to surrounding conditions.

Foam

- 5.2 Special hazards arising from the substance or mixture Can form explosive gas-air mixtures.
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Cool endangered receptacles with water spray.

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

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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 disposal information.

### **SECTION 7: Handling and storage**

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Avoid contact with skin and eyes.

#### · Information about fire - and explosion protection:

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.

- · 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.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Protect from heat and direct sunlight.
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8:** Exposure controls/personal protection

· 8.2 Exposure controls

· Ingredients with limit values that require monitoring at the workplace:

### CAS: 106-97-8 butane, pure

WEL Short-term value: 1810 mg/m³, 750 ppm Long-term value: 1450 mg/m³, 600 ppm Carc (if more than 0.1% of buta-1.3-diene)

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CAS: 111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm Long-term value: 123 mg/m³, 25 ppm

Sk, BMGV

· Ingredients with biological limit values:

#### CAS: 111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine

Medium: urine Sampling time: post shift Parameter: butoxyacetic acid

- · Additional information: The lists valid during the making were used as basis.
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · **Respiratory protection:** Not necessary if room is well-ventilated.
- · Recommended filter device for short term use: Filter AX
- · Hand protection

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

- · Material of gloves (EN 374)
- · Penetration time of glove material

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

- · Eye/face protection (EN 166)
- · Body protection:

(EN 13034-6)

Protective work clothing

#### **SECTION 9: Physical and chemical properties**

· 9.1 Information on basic physical and chemical properties

· General Information

Physical state
 Colour:
 Odour:
 Odour threshold:
 Melting point/freezing point:

Aerosol
Colourless
Petroleum-like
Not determined.
Undetermined.

 $\cdot$  Boiling point or initial boiling point and boiling

range <0 °C

· Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.Upper: Not determined.

· Flash point: Not applicable, as aerosol.

• Ignition temperature: >200 °C
 • Decomposition temperature: Not determined.
 • pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

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· Solubilit	y
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• water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.
 Not determined.

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

 $\cdot$  9.2 Other information

· Appearance:

· Form: Aerosol

 $\cdot$  Important information on protection of health and

environment, and on safety.

Auto-ignition temperature:
 Explosive properties:
 Not determined.
 Not determined.

· Solvent separation test:

Organic solvents: 85.6 %
 VOC (EC) 591.9 g/l
 Solids content: 0.0 %

· Change in condition

· Oxidising gases

• Evaporation rate Not applicable.

· Information with regard to physical hazard classes

Explosives VoidFlammable gases Void

· Aerosols Extremely flammable aerosol. Pressurised container:

Void

May burst if heated.

Gases under pressure
Flammable liquids
Flammable solids
Self-reactive substances and mixtures
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures, which emit flammable

Substances and mixtures, which emit flammable gases in contact with water
 Oxidising liquids
 Oxidising solids
 Organic peroxides

Void

Void

· Corrosive to metals Void
· Desensitised explosives 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: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

- GB

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## **SECTION 11: Toxicological information**

· LD/LC50 values relevant for classification:

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

ATE (Acute Toxicity Estimates)		
Oral	LD50	77,321 mg/kg (rat)
Dermal	LD50	20,898 mg/kg
Inhalative	LC50/4 h	575 mg/l
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cycloalkanes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>4,951 mg/l (rat)
CAS: 74-98-6 propane		

Inhalative LC50/4 h >20 mg/l (rat)

#### **CAS: 106-97-8 butane, pure**

Inhalative LC50/4 h 658 mg/l (rat)

#### CAS: 75-28-5 isobutane

Inhalative LC50/4 h 658 mg/l (rat)

#### CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (rat)
	LD50	400 mg/kg (rab)
Inhalative	LC50/4 h	2.2 mg/l (rat)

- · Aspiration hazard May be fatal if swallowed and enters airways.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic 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

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	n
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• 14.1 UN number or ID number	
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UN1950 · ADR/RID/ADN, IMDG, IATA

· 14.2 UN proper shipping name

· ADR/RID/ADN **UN1950 AEROSOLS** 

· IMDG **AEROSOLS** 

AEROSOLS, flammable · IATA

- · 14.3 Transport hazard class(es)
- · ADR/RID/ADN



2 5F Gases. · Class

· Label 2.1

· IMDG, IATA



2.1 Gases. · Class

· Label 2.1

· 14.4 Packing group

· ADR/RID/ADN, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user Warning: Gases.

· Hazard identification number (Kemler code):

· EMS Number: F-D,S-U

· Stowage Code 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

For WASTE AEROSOLS:

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	Segregation as for the appropriate subdivision of class 2.
· 14.7 Maritime transport in bulk according	ng to IMO
instruments	Not applicable.
· Transport/Additional information:	
· ADR/RID/ADN	
· Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E0
, -	Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

#### **SECTION 15: Regulatory information**

- $\cdot \ 15.1 \ Safety, health \ and \ environmental \ regulations/legislation \ specific \ for \ the \ substance \ or \ mixture$
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P3a FLAMMABLE AEROSOLS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 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.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

#### · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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)

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VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases - Category 1A

Aerosol 1: Aerosols - Category 1

Press. Gas (Comp.): Gases under pressure - Compressed gas

Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 3: Acute toxicity – Category 3

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Asp. Tox. 1: Aspiration hazard – Category 1

\* Data compared to the previous version altered.

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