

Safety Data Sheet

according to Regulation (EC) No 1907/2006

„number one“ – Orangen Power Reiniger

Print date: 18.04.2016

Product code:

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

1.1. Product identifier

„number one“ – Orangen Power Reiniger

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

Use of the substance/mixture

Cleaner

Uses advised against

any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: Autotechnik-Horsch-GmbH & Co.KG.
 Street: Teufelsheide 6
 Place: D-49086 Osnabrück
 Telephone: 0541-77615
 Responsible Department: Dr. Gans-Eichler
 Chemieberatung GmbH
 Raesfeldstr. 22
 D-48149 Münster

Telefax: 0541-77616
 e-mail: info@tge-consult.de
 Tel.: +49 (0)251/924520-60
 www.tge-consult.de

1.4. Emergency telephone number:

0541-77615 (Mo-Fr; 08:00-16:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Regulation (EC) No. 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
 No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-----------|---|--------------|----------|-----------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 5064-31-3 | trisodium nitrilotriacetate | | | 1 - < 5 % |
| | 225-768-6 | 607-620-00-6 | | |
| | Carc. 2, Acute Tox. 4, Eye Irrit. 2; H351 H302 H319 | | | |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | | | 1 - < 5 % |
| | 203-905-0 | 603-014-00-0 | | |
| | Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Skin Irrit. 2; H332 H312 H302 H319 H315 | | | |

Full text of H and EUH statements: see section 16.

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Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry extinguishing powder. alcohol resistant foam. Atomized water.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂). Sulphur oxides, Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area.

Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Discharge into the environment must be avoided.

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6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation.

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

General protection and hygiene measures: refer to chapter 8

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and feedingstuffs.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

Protect against: Light. UV-radiation/sunlight. heat. moisture.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|-----------------|-----|-------------------|-----------|---------------|--------|
| 111-76-2 | 2-Butoxyethanol | 25 | 123 | | TWA (8 h) | WEL |
| | | 50 | 246 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|----------|-----------------|-------------------|-----------------|---------------|---------------|
| 111-76-2 | 2-Butoxyethanol | butoxyacetic acid | 240 mmol/mol | urine | Post shift |

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

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Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time \geq 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time \geq 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time \geq 8 h

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation

Suitable respiratory protection apparatus: gas filtering equipment (EN 141). - Type: A

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

| | |
|-----------------|----------------|
| Physical state: | liquid |
| Colour: | light yellow |
| Odour: | characteristic |

Test method

pH-Value (at 20 °C): ~11,5 (100 g/l)

Changes in the physical state

| | |
|--|----------------|
| Melting point: | not determined |
| Initial boiling point and boiling range: | not determined |
| Sublimation point: | not determined |
| Softening point: | not determined |

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Pour point: not determined

Flash point: not determined

Sustaining combustion: Not sustaining combustion

Explosive properties

none

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: not determined

Auto-ignition temperature

Gas:

not determined

Decomposition temperature: not determined

Oxidizing properties

none

Vapour pressure: not determined

Density (at 20 °C): 1,025 g/cm³

Water solubility: not determined

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

Solvent separation test: not determined

Solvent content: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition productsIn case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂). Sulphur oxides, Nitrogen oxides (NO_x)

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SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available.

Acute toxicity

Based on available data, the classification criteria are not met.

| CAS No | Chemical name | | | |
|-----------|--|--------------------|------------|--------------|
| | Exposure route | Dose | Species | Source |
| 5064-31-3 | trisodium nitrilotriacetate | | | |
| | oral | LD50 1740 mg/kg | Rat. | ECHA Dossier |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | | | |
| | oral | LD50 1414 mg/kg | Guinea pig | ECHA Dossier |
| | dermal | LD50 (>2000) mg/kg | Rabbit | ECHA Dossier |
| | inhalative vapour | ATE 11 mg/l | | |
| | inhalative (4 h) aerosol | LC50 >3,9 mg/l | Rat | ECHA Dossier |

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

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Based on available data, the classification criteria are not met.

2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether (CAS-No.: 111-76-2):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity:

Method: other guideline: National Toxicology Programme Continuous Breeding Protocol

Species: CD-1 Mouse.

Exposure time: 14 weeks

Result: NOAEL = 720 mg/kg bw/day

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: New Zealand White Rabbit

Exposure time: 29d

Result: NOAEL = 50 ppm (maternal toxicity)

Result: NOAEL = 100 ppm (teratogenicity)

literature information: ECHA Dossier

trisodium nitrilotriacetate (CAS No. 5064-31-3):

In vivo mutagenicity/genotoxicity:

No experimental indications of in vivo mutagenicity exist.

Reproductive toxicity:

Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

Species: Rat.

Exposure time: 21 d

Result: NOAEL = 450 mg/kg/day

Developmental toxicity/teratogenicity:

Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)

Species: Rabbit

Exposure time: 28 d

Result: NOAEL = 250 mg/kg/day

literature information: ECHA Dossier

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.

2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether (CAS-No.: 111-76-2):

Chronic inhalative toxicity

Method: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Species: Mouse.

Exposure time: 2 years

Result: NOAEC < 62,5 ppm

literature information: ECHA Dossier

trisodium nitrilotriacetate (CAS No. 5064-31-3):

Subacute oral toxicity:

Method: no guideline followed

Species: Rat.

Exposure time: 28 d

Result: NOAEL = 9 mg/kg(bw)/day

Subacute inhalation toxicity:

Method: no guideline followed

Species: Rat.

Exposure time: 28 d

Result: NOAEC = 0,21 mg/l

literature information: ECHA Dossier

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Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

SECTION 12: Ecological information

12.1. Toxicity

| CAS No | Chemical name | | | | |
|-----------|--|-------------------|-----------|--------------------------------|--------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source |
| 5064-31-3 | trisodium nitrilotriacetate | | | | |
| | Acute fish toxicity | LC50 >100 mg/l | 96 h | Pimephales promelas | ECHA Dossier |
| | Acute algae toxicity | ErC50 > 91,5 mg/l | 72 h | Scenedesmus subspicatus | ECHA Dossier |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | | | | |
| | Acute fish toxicity | LC50 1464 mg/l | 96 h | Oncorhynchus mykiss | ECHA Dossier |
| | Acute algae toxicity | ErC50 911 mg/l | 72 h | Pseudokirchnerella subcapitata | ECHA Dossier |
| | Acute crustacea toxicity | EC50 1800 mg/l | 48 h | Daphnia magna | ECHA Dossier |
| | Fish toxicity | NOEC >100 mg/l | 21 d | Danio rerio | ECHA Dossier |
| | Algae toxicity | NOEC 88 mg/l | 3 d | Pseudokirchnerella subcapitata | ECHA Dossier |
| | Crustacea toxicity | NOEC 100 mg/l | 21 d | Daphnia magna | ECHA Dossier |

12.2. Persistence and degradability

| CAS No | Chemical name | | | |
|----------|--|-------|----|--------------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | | | |
| | OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C | 90,4% | 10 | ECHA Dossier |
| | Readily biodegradable (according to OECD criteria). | | | |

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|-----------|--|-------------|
| 5064-31-3 | trisodium nitrilotriacetate | -10,08 |
| 111-76-2 | 2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether | 0,81 (25°C) |

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.
 Non-contaminated packages may be recycled.
 According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.
 Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances
 Classified as hazardous waste.

Waste disposal number of used product

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances
 Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances
 Classified as hazardous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

Inland waterways transport (ADN)

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

Marine transport (IMDG)

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

Air transport (ICAO)

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

refer to chapter 6-8

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

not relevant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

| | |
|---|--|
| 2010/75/EU (VOC): | No information available. |
| 2004/42/EC (VOC): | No information available. |
| Information according to 2012/18/EU (SEVESO III): | Not subject to 2012/18/EU (SEVESO III) |

Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII: not relevant

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

Rev. 1.0; 13.04.2016, Initial release

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
CAS Chemical Abstracts Service
DNEL: Derived No Effect Level
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER
International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
LOAEL: Lowest observed adverse effect level
LOAEC: Lowest observed adverse effect concentration
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOAEL: No observed adverse effect level
NOAEC: No observed adverse effect level
NTP: National Toxicology Program
N/A: not applicable
OSHA: Concerning the International Transport of Dangerous Goods by Rail)
PNEC: predicted no effect concentration
PBT: Persistent bioaccumulative toxic
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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SARA: Superfund Amendments and Reauthorization Act
SVHC: substance of very high concern
TRGS Technische Regeln für Gefahrstoffe
TSCA: Toxic Substances Control Act
VOC: Volatile Organic Compounds
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
WGK: Wassergefährdungsklasse

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H351 | Suspected of causing cancer. |
| EUH210 | Safety data sheet available on request. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)