



haid-tec® geprüfte Oberflächentechnik GmbH

89626 Rottenacker

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Version 03. Supersedes version: 02

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****haid-tec® Fleckenentferner****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Cleaning agent

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet**Company**

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info@haid-tec.de

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number**Advisory body**

+49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]**

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements**Hazard pictograms**

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.

Cleaner, 648/2004/CE, contains:

< 5% nitrilotriacetic acid
 < 5% anionic surfactant
 < 5% amphoteric surfactants

2.3 Other hazards**Environmental hazards**

Does not contain any PBT or vPvB substances.

Other hazards

none

**SECTION 3: Composition / Information on ingredients****Product-type:**

The product is a mixture.

Range [%]	Substance
1 - < 10	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
1 - < 5	Trisodium nitrilotriacetate CAS: 5064-31-3, EINECS/ELINCS: 225-768-6, EU-INDEX: 607-620-00-6, Reg-No.: 01-2119519239-36-XXXX GHS/CLP: Acute Tox. 4: H302 - Eye Irrit. 2: H319 - Carc. 2: H351
0,1 - <0,5	Sodium hydroxide CAS: 1310-73-2, EINECS/ELINCS: 215-185-5, EU-INDEX: 011-002-00-6, Reg-No.: 01-2119457892-27-XXXX GHS/CLP: Met. Corr. 1: H290 - Skin Corr. 1A: H314

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Seek medical advice immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Headache

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x).
Sulphur oxides (SO_x).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.



SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Wear suitable protective equipment. For personal protection see SECTION 8.
Keep away from all sources of ignition.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Use personal protective equipment.
Keep away from open flames, hot surfaces and sources of ignition.
Do not eat, drink, smoke or take drugs at work.
Wash face and/or hands before break and end of work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Do not store together with food.
Do not store with oxidizing or self-igniting materials.
Keep container tightly closed and store it at a well-ventilated place.
Keep away from frost.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

Substance
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
Sodium hydroxide
CAS: 1310-73-2, EINECS/ELINCS: 215-185-5, EU-INDEX: 011-002-00-6, Reg-No.: 01-2119457892-27-XXXX
Short-term exposure (15-minute): 2 mg/m ³

DNEL

Substance
Sodium hydroxide, CAS: 1310-73-2
Industrial, dermal, Long-term - systemic effects: 11718 mg/kg bw/day.
Industrial, inhalative, Long-term - local effects: 1 mg/m ³ .
Industrial, oral, Long-term - systemic effects: 2,3 mg/kg bw/day.
Industrial, inhalative, Long-term - systemic effects: 2,1 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 5,7 mg/m ³ .
general population, inhalative, Acute - local effects: 2,5 mg/m ³ .
general population, inhalative, Long-term - local effects: 1 mg/m ³ .
Trisodium nitrilotriacetate, CAS: 5064-31-3
Industrial, inhalative, Acute - systemic effects: 5,25 mg/m ³ .
Industrial, inhalative, Long-term - systemic effects: 3,5 mg/m ³ .
Industrial, inhalative, Long-term - local effects: 3,5 mg/m ³ .
Industrial, inhalative, Acute - local effects: 5,25 mg/m ³ .
general population, oral, Long-term - systemic effects: 0,5 mg/kg.
general population, inhalative, Acute - systemic effects: 1,75 mg/m ³ .
general population, inhalative, Acute - local effects: 1,75 mg/m ³ .
Propan-2-ol, CAS: 67-63-0
Industrial, dermal, Long-term - systemic effects: 888 mg/kg.
Industrial, inhalative (vapor), Long-term - systemic effects: 500 mg/m ³ .
general population, inhalative (vapor), Long-term - systemic effects: 89 mg/m ³ .
general population, oral, Long-term - systemic effects: 26 mg/kg.
general population, dermal, Long-term - systemic effects: 319 mg/kg.

PNEC

Substance
Sodium hydroxide, CAS: 1310-73-2
sediment (seawater), 2,3 mg/kg.
freshwater, 6,4 mg/l.
sediment (freshwater), 23 mg/kg.
soil, 0,853 mg/kg.
sewage treatment plants (STP), 51 mg/l (n.a.).
seawater, 0,64 mg/l.
Trisodium nitrilotriacetate, CAS: 5064-31-3
freshwater, 0,93 mg/l.



oral (food), 0,2 mg/kg.
soil, 0,182 mg/kg.
sediment (seaater), 0,364 mg/kg.
sediment (freshwater), 3,64 mg/kg.
sewage treatment plants (STP), 540 mg/l.
seawater, 0,093 mg/l.
Propan-2-ol, CAS: 67-63-0
seawater, 140,9 mg/l.
soil, 28 mg/kg.
sediment (seaater), 552 mg/kg.
sediment (freshwater), 552 mg/kg.
oral (food), 160 mg/kg.
freshwater, 140,9 mg/l.
sewage treatment plants (STP), 2251 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	safety glasses (EN 166:2001)
Hand protection	0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Not required under normal conditions.
Other	Avoid contact with eyes and skin.
Respiratory protection	If ventilation is insufficient, wear respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	yellowish
Odor	alcoholic
Odour threshold	No information available.
pH-value	10 - 11
pH-value [1%]	8,5 - 9,5
Boiling point [°C]	~ 98
Flash point [°C]	> 35 (no independent burn maintains)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	No information available.
Bulk density [kg/m³]	not applicable
Solubility in water	completely miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	not applicable
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product
ATE-mix, oral, > 2000 mg/kg.
Substance
Sodium hydroxide, CAS: 1310-73-2
LD50, oral, Rat: 2000 mg/kg.
LDLo, oral, Rabbit: 500 mg/kg (IUCLID).
Trisodium nitrilotriacetate, CAS: 5064-31-3
LD50, dermal, Rabbit: > 10000 mg/kg.
LC50, inhalative, Rat: > 5 mg/l (4 h).
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit: 13400 mg/kg.
LD50, oral, Rat: 4570 mg/kg.
LC50, inhalation (vapour), Rat: 30 mg/L/4h.

Serious eye damage/irritation	Irritant Calculation method
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	No classification due to substance-specific concentration limits.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information**12.1 Toxicity**

Substance
Sodium hydroxide, CAS: 1310-73-2
LC50, (48h), Leuciscus idus: 189 mg/l (IUCLID).
LC50, (96h), fish: 33-196 mg/l.
EC50, (48h), Daphnia sp.: 40,4 mg/l.
Trisodium nitrilotriacetate, CAS: 5064-31-3
LC50, (96h), Pimephales promelas: > 100 mg/l (APHA 1971).
EC50, Pseudomonas fluorescens: 3200 - 5600 mg/l.
EC50, (72h), Scenedesmus subspicatus: > 91,5 mg/l.
Propan-2-ol, CAS: 67-63-0
LC50, (96h), Lepomis macrochirus: 1400 mg/l (ECOTOX-Database).
EC50, (48h), Daphnia magna: > 13000 mg/l (IUCLID).
IC50, (72h), Scenedesmus quadricauda (algea): > 1000 mg/l (IUCLID).



12.2 Persistence and degradability

Behaviour in environment compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

For recycling, consult manufacturer.
 Dispose of as hazardous waste.

Waste no. (recommended)

070601*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Waste no. (recommended)

150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with IMDG

not applicable

Air transport in accordance with IATA not applicable

**14.2 UN proper shipping name**

Transport by land according to ADR/RID NO DANGEROUS GOODS; NO INDEPENDENT BURN MAINTAINS IN ACCORDANCE WITH. ADR 2.2.3.1.1. REM. 1.

Inland navigation (ADN) NO DANGEROUS GOODS; NO INDEPENDENT BURN MAINTAINS IN ACCORDANCE WITH. ADR 2.2.3.1.1. REM. 1.

Marine transport in accordance with IMDG NO DANGEROUS GOODS; NO INDEPENDENT BURN MAINTAINED IN ACCORDANCE WITH IMDG 2.3.1.3.

Air transport in accordance with IATA NO DANGEROUS GOODS; NO INDEPENDENT BURN MAINTAINED IN ACCORDANCE WITH IATA 3.3.1.3.

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

No information available.

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

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	~ 8 %

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H314 Causes severe skin burns and eye damage.
 H290 May be corrosive to metals.
 H351 Suspected of causing cancer.
 H302 Harmful if swallowed.
 H336 May cause drowsiness or dizziness.
 H319 Causes serious eye irritation.
 H225 Highly flammable liquid and vapour.

16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative



16.3 Other information

Classification procedure

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

Modified position

SECTION 6 been added: Keep away from all sources of ignition.

SECTION 6 been added: Wear suitable protective equipment. For personal protection see SECTION 8.

SECTION 7 been added: Keep away from open flames, hot surfaces and sources of ignition.

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 9 been added: No information available.

SECTION 9 deleted: not determined

SECTION 12 been added: No information available.

SECTION 12 deleted: not determined

SECTION 14 been added: no dangerous goods; No independent burn maintained in accordance with IATA 3.3.1.3.

SECTION 14 deleted: not classified as "Dangerous Goods"

SECTION 14 been added: no dangerous goods; No independent burn maintained in accordance with IMDG 2.3.1.3.

SECTION 14 deleted: not classified as "Dangerous Goods"

SECTION 14 been added: no dangerous goods; No independent burn maintains in accordance with. ADR 2.2.3.1.1. Rem. 1.

SECTION 14 deleted: no dangerous goods



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