

Safety Data Sheet

acc. to OSHA HCS

Printing date 01/17/2024

Reviewed on 01/17/2024

1 Identification

- **Product identifier**
- **Trade name:** P 6
- **Article number:** V1007
- **Application of the substance / the mixture** Polierpaste/ polishing paste
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
OTEC Präzisionsfinish GmbH
Heinrich-Hertz-Straße 24
75334 STRAUBENHARDT
Germany
msds@otec.de
www.otec.de
Tel. + 49 7082 491120
Fax + 49 7082 491141
OTEC Precision Finish, Inc.
44 Cross Park Avenue
North Kingstown, RI 02852 USA
Tel: 1-401-398-0045
E-mail: sales@otecusa.com
- **Information department:** Product safety department
- **Emergency telephone number:**
+49 7082 491120
Monday - Thursday 7 a.m. to 5 p.m.
Fridays 7 a.m. to 4 p.m.

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.
Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

- **Label elements**
- **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Warning

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- **Hazard-determining components of labeling:**

2,2'-iminodiethanol

- **Hazard statements**

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

- **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

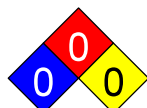
IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *0

Fire = 0

Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.• **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

• **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 102-71-6	Triethanolamine	0-≤5%
CAS: 111-42-2 RTECS: KL 2975000	2,2'-iminodiethanol	≤1%

4 First-aid measures

- **Description of first aid measures**

- **General information:**

If symptoms occur or in case of doubt, seek medical advice.

Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air.

Seek medical treatment in case of complaints.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Wash off immediately with plenty of soap and water.

Wash contaminated clothing before reuse.

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If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

Rinse immediately carefully and thoroughly with an eye shower or with water. Remove any contact lenses if possible. Rinse further. Get medical attention immediately.

- **After swallowing:**

Spit. Rinse mouth. Drink plenty of water. Do not induce vomiting. If you feel unwell, seek medical advice.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed** Symptomatic treatment

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

Carbon dioxide (CO₂)

Dry extinguishing agent

Alcohol-resistant foam

Water haze

Use fire fighting measures that suit the environment.

- **Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

carbon dioxide (CO₂)

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

- **Advice for firefighters**

- **Protective equipment:** Wear self-contained respiratory protective device.

- **Additional information**

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

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Wear protective clothing.

Particular danger of slipping on leaked/spilled product.

Avoid formation of dust.

Use respiratory protective device against the effects of fumes/dust/aerosol.

- **Environmental precautions:**

Do not allow to penetrate the ground/soil.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- **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 section 13.

Ensure adequate ventilation.

- **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.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

CAS: 102-71-6 Triethanolamine

15 mg/m³

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CAS: 111-42-2	2,2'-iminodiethanol	3 mg/m ³
· PAC-2:		
CAS: 102-71-6	Triethanolamine	240 mg/m ³
CAS: 111-42-2	2,2'-iminodiethanol	28 mg/m ³
· PAC-3:		
CAS: 102-71-6	Triethanolamine	1,500 mg/m ³
CAS: 111-42-2	2,2'-iminodiethanol	130 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Usual measures of preventive fire protection.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Protect from frost. Store cool and dry. Keep container tightly closed.
Protect from heat and direct sunlight.
- **Information about storage in one common storage facility:**
Store away from foodstuffs.
Do not store together with:
explosive hazardous substances
oxidizing hazardous substances
radioactive substances
- **Further information about storage conditions:**
Store in a cool place.
Shelf life: 12 months from date of manufacture, in unopened container
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:**
If technical extraction or ventilation measures are not possible or insufficient, respiratory protection must be worn.
 - **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
- | | |
|--|--|
| CAS: 102-71-6 Triethanolamine | |
| TLV | Long-term value: 5 mg/m ³ |
| CAS: 111-42-2 2,2'-iminodiethanol | |
| REL | Long-term value: 15 mg/m ³ , 3 ppm |
| TLV | Long-term value: 1* mg/m ³
Skin; *inhalable fraction and vapor, A3 |
- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.

- **Breathing equipment:**

Respiratory protection is required if:

- Exceeding limit values
- in case of insufficient ventilation, aerosol or mist formation

Particle filter device (DIN EN 143)

Filter P1

Filter P2

Filter P3

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**

No chemical-protective gloves required.



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- **Material of gloves**

Fluorocarbon rubber (Viton)

Butyl rubber, BR

Chloroprene rubber, CR

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 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 protection:**

Frame goggles with side protection

DIN EN 166

- **Body protection:** Lab coat

9 Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form: Fluid

Color: White

- **Odor:** Characteristic

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

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· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.2 g/cm ³ (10.014 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Dispersible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	<1.0 %
VOC content:	<1.00 %
	48.0 g/l / 0.40 lb/gal
VOC (EC)	2-<4 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Stable under specified storage conditions.
- **Possibility of hazardous reactions** Reacts with oxidizing agents.
- **Conditions to avoid** Avoid high temperatures and direct sunlight.
- **Incompatible materials:**
 - Oxidant
 - Reducing agent
- **Hazardous decomposition products:**
 - Hazardous decomposition products may be formed in case of fire.
 - Carbon monoxide
 - Carbon dioxide
 - Nitrogen oxides (NO_x)

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11 Toxicological information

- Information on toxicological effects

- Acute toxicity:

- LD/LC50 values that are relevant for classification:

CAS: 111-42-2 2,2'-iminodiethanol

Oral LD50 1,600 mg/kg (rat)

Dermal LD50 12,200 mg/kg (rabbit)

- Sensitization: Sensitization possible through skin contact.

- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- Carcinogenic categories

- IARC (International Agency for Research on Cancer)

CAS: 102-71-6 Triethanolamine

3

CAS: 111-42-2 2,2'-iminodiethanol

2B

- NTP (National Toxicology Program)

None of the ingredients is listed.

- OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- Toxicity

- Aquatic toxicity: No further relevant information available.

- Persistence and degradability: No further relevant information available.

- Behavior in environmental systems:

- Bioaccumulative potential: Bioaccumulation is unlikely.

- Mobility in soil: No further relevant information available.

- Additional ecological information:

- General notes:

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

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

Danger to drinking water if even small quantities leak into the ground.

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods

- Recommendation:

Disposal according to official regulations.

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

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- **Uncleaned packagings:**
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
- **DOT, ADN, IMDG, IATA** not regulated
- **UN proper shipping name**
- **DOT, ADN, IMDG, IATA** not regulated
- **Transport hazard class(es)**
- **DOT, ADN, IMDG, IATA**
- **Class** not regulated
- **Packing group**
- **DOT, IMDG, IATA** not regulated
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** not regulated

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

CAS: 111-42-2 | 2,2'-iminodiethanol

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Hazardous Air Pollutants**

CAS: 111-42-2 | 2,2'-iminodiethanol

- **Proposition 65**

- **Chemicals known to cause cancer:**

CAS: 111-42-2 | 2,2'-iminodiethanol

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

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- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value)**

CAS: 111-42-2 | 2,2'-iminodiethanol

A3

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**

2,2'-iminodiethanol

- **Hazard statements**

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

- **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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.

- **Department issuing SDS:** Product safety department

- **Contact:** Nadine Waltenberger

- **Date of preparation / last revision** 01/17/2024

- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport 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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

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PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 2: Reproductive toxicity – Category 2

· *** Data compared to the previous version altered.**

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