

SAFETY DATA SHEETS

This SDS packet was issued with item:

077121023

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

077121007

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)
Vococid

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's name VOCO GmbH	Emergency Telephone Number: +49-4721-719-0
Address (Number, Street, City, State and ZIP Code)	Telephone Number for Information: +49-4721-719-0
Anton-Flettner-Str. 1-3	Date Prepared: 9/24/2007
27472 Cuxhaven, Germany	Signature of Preparer (optional)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
phosphoric acid				

Section III—Physical/Chemical Characteristics

Boiling Point	not applicable	Specific Gravity (H ₂ O = 1)	not applicable
Vapor Pressure (mm Hg)	not applicable	Melting Point	not applicable
Vapor Density (AIR = 1)	1	Evaporation Rate (Butyl Acetate = 1)	> 1
Solubility in Water	nearly insoluble		
Appearance and Odor	appearance: gel or liquid	odor::	slightly specific

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used)	not applicable	Flammable Limits	n. a.	LEL	n. a.	UEL	n. a.
Extinguishing Media	Carbon dioxide, foam, dry fire extinguishers						
Special Fire Fighting Procedures:	not applicable						
Unusual Fire and Explosion Hazards:	not applicable						

(Reproduce locally)

OSHA 174 Sept. 1985

VC 69001063 US 097

Section V—Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	heat, exposition to sunlight

Incompatibility (*Materials to Avoid*) metal powders, strong oxidizers

Hazardous Decomposition or Byproducts carbon monoxide (decomposition)

Hazardous Polymerization	May Occur	X	Conditions to Avoid
	Will Not Occur		metal powders, strong oxidizers

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? negligible	Skin? irritating	Ingestion? damaging to one's health
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Health Hazards (*Acute and Chronic*) allergic reactions towards ingredients are possible (sensitized persons), in case of eye and skin contact: irritating

Carcinogenicity not given NTP? not given IARC Monographs? not given OSHA Regulated? not applicable

Signs and Symptoms of Exposure: in case of allergic reactions typical signs and symptoms of allergies can be observed

Medical Conditions
Generally Aggravated by Exposure: Allergies towards ingredients of the materials

Emergency and First Aid Procedures: in case of allergies by skin contact: wash with soap and water, remote contaminated clothing.

in case of eye contact: rinse thoroughly with plenty of water, if necessary contact a ophthalmologist

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled:

Pick up small spills with paper towels and discard properly

Waste Disposal Method Dispose material in compliance with local, state or federal regulations

Precautions to Be Taken in Handling and Storing: Protect from bright light and heat, keep away from children and foodstuff

Other Precautions: Avoid pollution of water and sewage systems

Section VIII—Control Measures

Respiratory Protection (*Specify Type*) not necessary if used in the recommended way

Ventilation	Local Exhaust	no data given	Special	no data given
	Mechanical (<i>General</i>)	no data given	Other	no data given

Protective Gloves recommended Eye Protection recommended

Other Protective Clothing or Equipment dental working clothes

Work/Hygienic Practices: Follow the instructions for use, avoid prolonged skin contact

The data given here are based on current knowledge and experience. They do not signify any warranty with regard to the properties of the product. **VC 69001063 US 097**

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/23/2017

Reviewed on 02/23/2017

1 Identification

- **Product identifier**
- **Trade name:** *Vococid*
- **Application of the substance / the mixture** *Discharging agent*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
VOCO GmbH
Anton-Flettner-Str. 1-3
D-27472 Cuxhaven
- **Information department:** *Scientific department tel. +49 (0)4721-719-0*
- **Emergency telephone number:** *Scientific department tel. +49 (0)4721-719-0*

2 Hazard(s) identification

Health effects are based on the unmixed/uncured material.
Under FDA regulations this product is classified as a medical device.
Medical devices are exempt from the labelling provisions of GHS according to the Hazard Communication Standard (HCS).

- **Classification of the substance or mixture**



Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.

- **Label elements**
- **Hazard pictograms** *GHS05*
- **Signal word** *Danger*
- **Hazard statements**
Causes severe skin burns and eye damage.
- **Precautionary statements**
Wear protective gloves / eye protection.
Wear protective clothing.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards** *Use only for intended scope of application*
- **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:**

7664-38-2	phosphoric acid	Skin Corr. 1B, H314	25-50%
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4 First-aid measures

- **Description of first aid measures**
- **General information:** *Immediately remove any clothing soiled by the product.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*

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- **After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **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**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:**
Do not allow to enter sewers/ surface or ground water.
Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** For dental use only.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** See storage instructions on package
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.

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Trade name: Vococid

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- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed. Immediately remove all soiled and contaminated clothing.
- Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

- **Material of gloves**
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.
- **Eye protection:** Safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	gel
· Form:	Light blue
· Color:	Odorless
· Odor:	Not determined.
· Odor threshold:	0.8
· pH-value at 20 °C (68 °F):	
· 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.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density at 20 °C (68 °F):	1.28 g/cm ³ (10.682 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Other information	No further relevant information available.

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10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed

· NTP (National Toxicology Program)
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None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)
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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** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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Reviewed on 02/23/2017



Trade name: Vococid

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1805
· UN proper shipping name	-
· DOT	Phosphoric acid solution
· ADR	1805 Phosphoric acid solution
· IMDG, IATA	PHOSPHORIC ACID, SOLUTION
· Transport hazard class(es)	-
· DOT	
	
· Class	8 Corrosive substances
· Label	8
· ADR, IMDG, IATA	
	
· Class	8 Corrosive substances
· Label	8
· Packing group	-
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Corrosive substances
· Danger code (Kemler):	80
· EMS Number:	F-A,S-B
· Segregation groups	Acids
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN 1805 PHOSPHORIC ACID SOLUTION, 8, III

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7664-38-2 phosphoric acid

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients are listed

· TLV (Threshold Limit Value established by ACGIH)

Contact VOCO for more information.

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

None of the ingredients are listed

· GHS label elements

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

· Hazard pictograms GHS05

· Signal word Danger

· Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

Wear protective gloves / eye protection.

Wear protective clothing.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

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

16 Other information

The information contained herein is based on our present knowledge and is believed to be correct at the date issued. The information is subject to change without notice. However, all information, statements, recommendations or suggestions shall not constitute any guarantee, representation or warranty, expressed or implied.

Final determination whether the product is fit and suitable for a particular purpose and the user's method of use or application is the sole responsibility of the user.

- Department issuing SDS: Scientific department

- Contact: Tel.: +49 (0)4721-719-0

- Date of preparation / last revision 02/23/2017 / 14

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· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

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

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

US