

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 28.01.2009

Revision: 03.12.2007

1 Identification of substance

- **Product details**
- **Trade name** Viscacid Conductive Layer W, Component A
- **Article number:** 1476
- **Application of the substance / the preparation** Coating
- **Manufacturer/Supplier:**
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2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**
R 41 Risk of serious damage to eyes.
R 43 May cause sensitisation by skin contact.
- **Classification system**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**

- **Dangerous components:**

	Polyaminoamide	Xi; R 38-41-43	10-<25%
CAS: 111-76-2 EINECS: 203-905-0	2-butoxyethanol	Xn, Xi; R 20/21/22-36/38	2.5-<10%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information**
When symptoms occur or in case of doubt, seek medical advice
Immediately remove any clothing soiled by the product.

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- In case of irregular breathing or respiratory arrest, provide artificial respiration.
- **After inhalation**
Take affected persons into the open air and position comfortably
Seek medical treatment in case of complaints.
- **After skin contact**
Wash immediately with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water.
Call a doctor immediately.
- **After swallowing** Do not induce vomiting; call for medical help immediately.
- **Information for doctor**
- **The following symptoms may occur:**
In case of prolonged/repeated exposure or in high concentrations:
Headache
Coughing
Dizziness
Gastro-intestinal symptoms
Irritating effect on skin and eyes.
Irritating effect on respiratory organs.
Allergic reactions
- **Treatment** symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents**
Water mist
Alcohol-resistant foam
Carbon dioxide
Fire-extinguishing powder
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or flue gases:**
May be released in case of fire
Nitrous gases
Carbon monoxide (CO)
further harmful conflagration gases and fumes
May form explosive gas-air mixtures.
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear chemical protective clothing.
- **Additional information**
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources
- **Measures for environmental protection:**
Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Additional information:** See Section 8 for information on personal protection equipment.

7 Handling and storage

- **Handling**

- **Information for safe handling:**

Use only in well ventilated areas.

Avoid contact with skin and eyes.

Open and handle container with care.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

- **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

- **Storage**

- **Requirements to be met by storerooms and containers:** Prevent any penetration into the ground.

- **Information on storage in a common storage facility:**

Do not store together with fire promoting and self-igniting materials

Do not store together with alkalis (lyes).

Store away from oxidizing agents.

- **Further information about storage conditions:**

Store cool and dry in tightly closed containers.

Store container in a well ventilated position.

Protect from heat and direct sunlight.

Protect from frost.

Protect from humidity and keep away from water.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Components with limit values that require monitoring at the workplace:**

111-76-2 2-butoxyethanol

OES	Long-term value: 123 mg/m ³ , 25 ppm
	Sk, Bmgv

- **Additional information:** The lists that were valid during compilation were used as a basis.

- **Personal protective equipment**

- **General protective and hygienic measures**

Immediately remove soiled, saturated clothing.

Keep away from food, beverages and animal feed.

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

Wash hands before pauses and after work.

Avoid contact with eyes and skin.

Do not inhale gases / vapours / aerosols.

- **Respiratory equipment:**

Not necessary if room is well-ventilated.

In case of insufficient ventilation, use respiratory protection:

Short term filter device:

Filter ABEK

- **Protection of hands:** Impervious gloves

- **Material of gloves** Nitrile rubber, NBR

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- **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.

Break through time: max. 240 min (DIN EN 374).

- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **General Information**

Form:	Viscous
Colour:	Black
Odour:	Amine-like

- **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: 100°C
Water

- **Flash point:** 68°C (Setaflash)

- **Self-inflammability:** Product is not self-igniting.

- **Danger of explosion:** Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.

- **Explosive Limits:**

Lower: 1.1 Vol %
2-butoxyethanol

Upper: 10.6 Vol %
2-butoxyethanol

- **Vapour pressure at 20°C:** 23 mbar

- **Density at 20°C** ca. 1.32 g/cm³

- **Solubility in / Miscibility with**

Water: Fully miscible

- **Viscosity:**

dynamic at 23°C: ca. 3200 mPas

- **Solvent content:**

Organic solvents: 4.6 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

No decomposition if handled and stored according to specifications.

Avoid: heat, flames, sparks

- **Materials to be avoided:**

Amines

oxidising agent

reducing agents

- **Dangerous reactions**

Reacts with oxidising agents

Reacts with reducing agents

- **Dangerous decomposition products:**

May be released in fire:

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Carbon monoxide and carbon dioxide
Poisonous gases/vapours
Irritating gases/vapours
Inflammable gases/vapours

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11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
Modified Polyaminoamide, oral 2960 mg/kg rat
approx. 50% in water dermal > 5000 mg/kg rbt
- **Primary irritant effect:**
- **on the skin:** No irritating effect.
- **on the eye:** Strong irritating effect with the danger of severe eye injury.
- **Sensitisation:** Sensitisation possible by skin contact.
- **Experience with humans:**
Frequent or longer lasting skin contact may degrease and dry out skin which may lead to skin irritation and inflammation (dermatitis).
- **Additional toxicological information:**
The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

- **Information on elimination (persistence and degradability):**
- **Other information:**
Data for 2-butoxyethanol:
Biodegradability:
95% (DOC; modif. OECD Screening Test / OECD 301 E)
> 99% (DOC; Zahn-Wellens-Test / OECD 302 B)
readily biodegradable
- **Behaviour in environmental systems:**
- **Other information** Data for 2-butoxyethanol: no bioaccumulation
- **Ecotoxicological effects:**
- **Acquatic toxicity:**
- **Type of test Effective concentration Method Assessment**
Data for 2-butoxyethanol:
Acute toxicity for fish:
Ide LC-50 = 1995 mg/l/48 h
Leuciscus idus LC-50 : 1800 mg/l/48 h (DIN 38412, part 15)
Acute toxicity for daphnia:
Daphnia magna EC-50 : 5000 mg/l/24 h (DIN 38412, part 11)
- **General notes:**
Water hazard class 2 : hazardous to water.
Do not allow product to reach ground water, bodies of water or sewage system.
according to appendix 4 VwVwS

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13 Notes on disposal:

- **Product:**

- **Recommendation**

Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage.

The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

- **European waste catalogue**

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
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20 01 00	separately collected fractions (except 15 01)
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20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27
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08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
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08 01 00	wastes from MFSU and removal of paint and varnish
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08 01 11	waste paint and varnish containing organic solvents or other dangerous substances
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- **Uncleaned packaging:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVs/GGVE (cross-border/domestic)**

- **ADR/RID-GGVs/E Class:** -

- **Maritime transport IMDG/GGVSea:**

- **IMDG/GGVSea Class:** -

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not a hazardous good according to the above regulations.

15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**



Xi Irritant

- **Hazard-determining components of labelling:**

Polyaminoamide

- **Risk phrases:**

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

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· Safety phrases:

- 2 Keep out of the reach of children.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 37/39 Wear suitable gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

· Product Code: RE 2**· National regulations****· Water hazard class:**

German Water hazard class 2: hazardous to water.
according to appendix 4 VwVwS

· Other regulations, limitations and prohibition ordinances

APME document: "Epoxy resins and hardener: Toxicology, working safety, environment."

· Professional Association (BG) Code of Practice: M 004 "Irritating substances/corrosive substances"**16 Other information:**

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

· Relevant R-phrases

- 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- 36/38 Irritating to eyes and skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 43 May cause sensitisation by skin contact.

· Department issuing data specification sheet: Product Safety department

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