

SAFETY DATA SHEETS

This SDS packet was issued with item:

077108996

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

077108954 077108962

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/15/2008

Reviewed on 07/15/2008

1 Identification of substance

- **Product details**
- **Trade name:** *Admira Protect (SD)*
- **Application of the substance / the preparation:** *Desensitizer*
- **Manufacturer/Supplier:**
Voco GmbH
Anton-Flettner-Str. 1-3
D-27472 Cuxhaven
- **Information department:** *Scientific department*
- **Emergency information:** *Scientific department tel. +49 (0) 4721 7190*

2 Composition/Data on components

- **Chemical characterization**
- **Description:** *Mixture of the substances listed below with nonhazardous additions.*

- **Dangerous components:**

67-64-1	acetone	25-50%
1565-94-2	BIS-GMA	10-25%
	Acidic adhesive monomer	10-25%
	Ormocer	5-10%
868-77-9	2-hydroxyethyl methacrylate	5-10%
	urethanedimethacrylate	5-10%
	Catalyst	≤ 2.5%

3 Hazards identification

- **Hazard description:**
Corrosive
Highly flammable
- **Information pertaining to particular dangers for man and environment:**
The product has to be labelled due to the calculation procedure of international guidelines.
Highly flammable.
Causes burns.
May cause sensitization by skin contact.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**

	Health = 3
	Fire = 3
	Reactivity = 0

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

	Health = 3
	Fire = 3
	Reactivity = 0

4 First aid measures

- **General information:** *Immediately remove any clothing soiled by the product.*
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **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.* (Contd of page 1)

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Prevent seepage into sewage system, workpits and cellars.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** For dental use only.
- **Information about protection against explosions and fires:** Keep ignition sources away - Do not smoke.
- **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.

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:**

67-64-1 acetone

PEL	2400 mg/m ³ , 1000 ppm
REL	590 mg/m ³ , 250 ppm
TLV	Short-term value: 1782 mg/m ³ , 750 ppm
	Long-term value: 1188 mg/m ³ , 500 ppm
	BEI

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **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

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Trade name: Admira Protect (SD)

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application.
 · **Penetration time of glove material**
 The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
 · **Eye protection:** Safety glasses

9 Physical and chemical properties	
General Information	
Form:	Fluid
Color:	Light yellow
Odor:	Characteristic
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	< 10°C (< 50°F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Density:	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
pH-value at 20°C (68°F):	2

10 Stability and reactivity:

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

Acidic adhesive monomer	
Oral	LD50 > 2000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Caustic effect on skin and mucous membranes.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Corrosive
 Irritant

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12 Ecological information

- **General notes:** *Must not reach bodies of water or drainage ditch undiluted or unneutralized.*

13 Disposal considerations

- **Product:**
- **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.*

14 Transport information

· DOT regulations:



- **Hazard class:** 3
- **Identification number:** UN2924
- **Packing group:** II
- **Proper shipping name (technical name):** *FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ACETONE, Acidic adhesive monomer)*
- **Label:** 3+8

· Land transport ADR/RID (cross-border):



- **ADR/RID class:** 3 Flammable liquids
- **Danger code (Kemler):** 338
- **UN-Number:** 2924
- **Packaging group:** II
- **Label:** 3+8
- **Description of goods:** *2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ACETONE, Acidic adhesive monomer)*

· Maritime transport IMDG:



- **IMDG Class:** 3
- **UN Number:** 2924
- **Label:** 3+8
- **Packaging group:** II
- **EMS Number:** F-E,S-C
- **Marine pollutant:** No
- **Propper shipping name:** *FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ACETONE, Acidic adhesive monomer)*

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



· ICAO/IATA Class:	3
· UN/ID Number:	2924
· Label:	3+8
· Packaging group:	II
· Proper shipping name:	FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ACETONE, Acidic adhesive monomer)

15 Regulations

· **Sara**

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

None of the ingredients is listed.

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

None of the ingredients is listed.

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

Contact Voco for more informations

67-64-1 | acetone

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **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.

· **Carcinogeny categories**

· **EPA (Environmental Protection Agency)**

67-64-1 | acetone

· **IARC (International Agency for Research on Cancer)**

Contact Voco for more information

· **NTP (National Toxicology Program)**

Contact Voco for more informations

· **TLV (Threshold Limit Value established by ACGIH)**

Contact Voco for more information

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

Contact Voco for more information

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

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Trade name: *Admirn Protect (SD)*

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Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

67-64-1 acetone

Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

Hazard symbols:

Corrosive

Highly flammable

Hazard-determining components of labelling:

2-hydroxyethyl methacrylate

Acidic adhesive monomer

Risk phrases:

Highly flammable.

Causes burns.

May cause sensitization by skin contact.

Safety phrases:

Keep away from sources of ignition - No smoking.

When using do not eat or drink.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

After contact with skin, wash immediately with plenty of soap and water.

Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show the label if possible).

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 MSDS: Scientific departement

Contact: Tel.: +49 (0) 4721 7190

USA