

SAFETY DATA SHEET according to 91/155/EEC

Tradename:

ACRYPOLVersion: 1
Printing date: 10.05.05
Page: 1 von 1**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

- 1.1 Trade name:** ACRYPOL
Clear acrylic lacquer for sealing and polishing edges and inaccessible areas.
- 1.2 Manufacturer:** SCHEU-DENTAL
Am Burgberg 20
58642 Iserlohn
Germany
- 1.3 Info Telephone No.:** +49/2374/9288-0

2. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical Characterization:** Synthetic enamel on the basis of acryl

CAS-No.:	Name	%	Marking	R-Rates
100-41-4	Ethylbenzole	2,5-10	Xn	11-20
71-36-3	n-Butanole	2,5-10	Xn	10-20
123-42-2	4-Hydroxy-4-methyl-pentan-2-on	2,5-10	Xi	36
80-62-6	methyl-methacrylate	< 2,5	Xi	11-36/37/38-43
1330-20-7	Xylol, isomeric mixture	10-25	Xn	10-20/21-38
78-83-1	Isobutanol; Butylalcohol (except for tert-Butanol)	10-25	Xn	10-20
67-63-0	2-propanol	10-25		11

(Explanation of R-rates, see chapter 16)

3. HAZARDS IDENTIFICATION**Danger marking:** Xn hazardous to health
F easy inflammable**Special danger marking for human beings and environment:**

R-rates:

- 11 easy inflammable
20/22 hazardous to health when inhaled and swallowed
36 irritate eyes
43 sensitive reaction on skin contact is possible.

4. FIRST-AID MEASURES**General instructions:**

If symptom occur or in case of doubts, consult doctor. In case of unconsciousness no oral treatment.

After breathing:

Fresh air, lay patient in normal position and keep warm.
In case of unregular breathing or shortness of breath artificial respiration is necessary.
In case of unconsciousness apply lateral position and consult doctor.

SAFETY DATA SHEET according to 91/155/EEC



Tradename:

ACRYPOL

Version: 1
Printing date: 10.05.05
Page: 2 von 2

After skin contact:

Take off dirty clothes. Wash wet skin with water and soap or use adequate cleaning stuff. Do not use solvent or diluent!

After eye contact:

Open eyes and flush thoroughly for at least 10 min. with clean water, consult doctor.

After swallowing:

In case swallowing, consult doctor immediately! Stay calm. Do not vomit!

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

foam (resistant to alcohol), carbon dioxide, powder, water foam

For safety reasons unsuitable extinguishing media:

water jet

Special danger by its material, its combustion product or developing gas:

In case of fire, thick and black smoke develops. When inhaling dangerous decomposition products serious health problems can occur.

Special safety equipment for fire-fighting:

Eventually breathing protection is necessary. Closed containers have to be cooled with water near fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precaution Measures:

Keep away from fire and fill room with fresh air. Do not inhale vapour. Pay attention to protection measures (see chapter 7 and 8).

Environmental Protection Measures:

Do not let it get into canalization. In case of dirt in rivers, seas or sewage lead inform the responsible authorities, according to the local regulations.

Method of cleaning/sweeping up:

Absorb material (e. g. sand, earth, infusorial earth, vermiculite) and collect it in containers, according to local regulation. Preferably clean with cleaning material, if possible do not use solvent.

7. HANDLING AND STORAGE

Instructions for safe use:

Avoid development of flammable and explosive solvent vapours in the air and an exceeding of MAK-limits. Use the material only when open light, fire and other ignition sources can be avoided. The material can charge electrostatical: when pouring into another container use earth lead. We recommend to wear antistatistical clothes and shoes. Use tools which are protected against sparks. Avoid contact with skin and eyes. Do not inhale vapour and water fog. Do not eat, drink and smoke during work. Personal protection, see chapter 8. Follow legal security and protection regulation.

If persons, whether they spray or not, have to work in a spraying cabine, a sufficient control of aerosol and solvent vapours is not probable. On such situation they should wear, during the spraying process, an air-pressure breathing protection apparatus until the time when the aerosol and solvent vapour concentration has been fallen under the exposition limit value.

SAFETY DATA SHEET according to 91/155/EEC

Tradename:

ACRYPOLVersion: 1
Printing date: 10.05.05
Page: 3 von 3**Instructions on fire and explosion protection:**

Solvent vapours are heavier than air and extend over the whole floor. Vapours form together with air an explosive mixture.

Requirements on storage place and container:

Electric equipment have to be protective against explosions, according to regulation. Floors have to be electrically conductive. Keep containers tightly closed. Do not empty with pressure, no pressure tank. Do not smoke. Trespassing prohibited. Opened containers have to be closed carefully and store upright, in order to avoid running out.

Hints for storing material together:

Keep away from very acid and alkaline materials as well as oxydation materials.

Other information concerning storage conditions:

Always keep in containers, which are in accordance with the original composition. Pay attention to hints on the label. Storage between 15°C and 30°C at a dry and well-ventilated room. Protect against heat and direct sun. Avoid flames.

Storage classification: AI

Storage in accordance with the regulation concerning the storage of flammable liquids (VbF).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Technical protection measures:

Provide good ventilation by local suction or general waste air. If this is not sufficient, in order to have the solvent vapour concentration under the MAK-limit, a suitable breathing protection apparatus have to be worn.

Components with limit values referring to the work-place, which need to be controlled:

CAS-No.	Name	kind	value	unit
100-41-4	Ethylbenzole	MAK	100.0	ppm
71-36-3	n-Butanol	MAK	100.0	ppm
123-42-2	4-Hydroxy-4-methyl-pentan-2-on	MAK	50.00	ppm
80-62-6	methyl-methacrylate	MAK	50.0	ppm
1330-20-7	Xylol, isomeric mixture	MAK	100.0	ppm
78-83-1	Isobutanol; Butylalcohol (except for tert-Butanol)	MAK	100.0	ppm
67-63-0	2-propanol	MAK	200.0	ppm

The indicated values have been taken of lists, being valid at the writing date and the according Security Data Sheets of the supplier.

Personal Protection Measures:**Respiratory protection:**

Is the solvent concentration above the MAK values, a qualified breathing protection apparatus have to be worn.

Hand protection:

Protection gloves

In case of long and repeated contact: protection creme for skin areas, which are in contact with the product. Pay attention to recommendation of manufacturer.

Eye protection:

Wear protective glasses against sovent splash.

SAFETY DATA SHEET according to 91/155/EEC

Tradename:

ACRYPOLVersion: 1
Printing date: 10.05.05
Page: 4 von 4**Body protection:**

Wear antistatine clothing of natural fray (cotton) or heat resistant artificial fray. After contact, wash hands.

9. PHYSICAL AND CHEMICAL PROPERTIES**Form:** liquid**Colour:** see marking name**Odour:** arttypical**Change in physical state:** tested in accordance with**Flash point** < 21°C**Viscosity:** 16 s 4 mm at 20°C DIN 53211**Lower explosion limit** 1,0 Vol-%**Upper explosion limit** 12,0 Vol-%**Vapour pressure** 16 mbar at 20 °C value out of literature**Density** 0,88 g/cm³ (theor.) at 20 °C**Solubility in water** unsoluble**Melting temperature** 82°C value out of literature**solvent value** 80 %**Lower ignition limit** 372°C value out of literature**Upper ignition limit** -----**Solid state weight** 20 % theoretical value**Solid state volumn** 17 % theoretical value**10. STABILITY UND REACTIVITY****Conditions to be avoided:**

Stable when using accordingly to the recommended regulations about storage and handling (see chapter 7).

Materials to be avoided:

Keep away from strong sour and alkaline materials as well as oxydation materials, in order to avoid exotherme reactions.

Hazardous decomposition products:

When working with high temperatures, hazardous decomposition products such as carbon dioxide, carbon monoxide, smoke, nitrogen monoxide can develop. When working with cellulose nitrat laquers, danger of self ignition above 130°C (see VbG 24) exist.

SAFETY DATA SHEET according to 91/155/EEC

Tradename:

ACRYPOLVersion: 1
Printing date: 10.05.05
Page: 5 von 5**11. TOXICOLOGICAL INFORMATION**

There are no information about the preparation available. The inhalation of solvent components above the MAK limit value can be dangerous to health as it can irritate the mucous membrane and respiratory organs, disease of the kidneys and liver, as well as impairment of the central nervous system.

If the preparation contains 2-butoxyethanole and its acetates (2-butoxy-ethylacetate) (see chapter 2): 2-butoxyethanole and its acetate are skin absorptive and cause healthy effects in blood.

If the preparation contains methoxyethanol and ethoxyethanol and its acetates (e. g. 2-Ethoxy-ethylacetate) (see chapter 2):

In the case of ethoxyethanol and methoxyethanol and its acetate it has been proved by animal testing , that exposition above the threshold limit value may cause health effects on the reproduction system as well as on blood, kidneys and on the central nervous system.

Symptom:

Headache, vertigo, tiredness, muscular weakening, numbed effect and in some rare cases unconsciousness. Longer or repeated contact with the product impair the natural skin re-fatness and leads to the dry up of the skin. The product can only get into the body through the skin. Solvent splashes can cause irritations of the eye and reversible damage.

12 ECOLOGICAL INFORMATION**Water Danger Classification:** 2

Do not let it reach into canalization.

13 DISPOSAL CONSIDERATIONS**Product****Recommendation:**

Do not let it reach into canalization.

Do not dispose together with private waste.

Disposal key-No.: Disposal name
55508 coat material**Uncleaned packaging****Recommendation:**

Dispose of empty container according to the local regulation.

14 TRANSPORT INFORMATION

Transport only according to transport regulation for streets (ADR), railway (RID), sea (IMDG) and air (ICAO / IATA).

Landtransport ADR / RID and GGVS / GGVE (abroad / domestic)ADR / RID-GGVS / E classification: 3
number / letter: 5c

UN-No.: 1263 color

Name of material:

SAFETY DATA SHEET according to 91/155/EEC

Tradename:

ACRYPOLVersion: 1
Printing date: 10.05.05
Page: 6 von 6**Seatransport IMDG / GGV-sea**IMDG / GGVSea-classification: 3.2 PG: 3268
UN-No.: 1263 PaintEmS-No.: 3-05 MFAG: 310
marine pollutant: no**Airtransport ICAO-TI and IATA-DGR**ICAO / IATA-classification 3 / II
UN-No. 1263 Paint

Packaging group: III

15 REGULATORY INFORMATION

Marking according to the danger material regulation**Labelling letter and danger labelling of the product:**

Xn hazardous to health

F easy inflammable

Danger determined component for labelling:

Xylol, isomeric mixture

methyl-methacrylate

R-rates11 easy inflammable
20/22 hazardous to health when inhaled and swallowed
36 irritates eyes
43 sensitive reactions on skin is possible.**S-rates**16 keep away from flammes - do not smoke
26 in case of getting into contact with eyes flush thoroughly with water and consult doctor.
38 in case of insufficient ventilation, wear breathing protection apparatus.
51 use only in well-ventilated areas.
23 do not inhale vapour.**Special marking:****P-rates**

not applicable

Information according to the water household law**Water danger classification:** 2**Information concerning emission protection:****TA-air classification I:** 0,0 % **classification II:** 21,5 % **classification III:** 58,4 %

SAFETY DATA SHEET according to 91/155/EEC

Tradename:

ACRYPOLVersion: 1
Printing date: 10.05.05
Page: 7 von 7

16 OTHER INFORMATION

R-rates with according marking of chapter 2:

11 easy inflammable
20 hazardous to health when inhaled
10 inflammable
36 irritate eyes
36/37/38 irritate eyes, respiratory organs and skin
43 sensitive reaction on skin is possible
20/21 hazardous to health when inhaled and in case of getting into contact with skin.
38 irritates skin.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products properties.