



C.T.S. S.R.L.

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MATERIAL SAFETY DATA SHEET (DIR. 2001/58/EC)

1. PRODUCT AND COMPANY IDENTIFICATION

Product name **BEVA ORIGINAL FORMULA GEL**

Use: **adhesive for cold lining**

Revision date: **18/06/2004**

Distributor: **C.T.S. S.r.l. - Via Piave N. 20/22 - 36077 ALTAVILLA VICENTINA (VI) – ITALIA**
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Emergency telephone number: **+39/0444/349088**

2. COMPOSITION/INFORMATION ON INGREDIENTS

The preparation is an aqueous dispersion (with a small percentage of organic solvents) of acrylic and vinylacetic resins.

Hazardous components (Dir. 67/548/EEC and subsequent amendments)

- xylene	CAS 1330-20-7 EC 215-535-7 Index 601-022-00-9
Hazard symbol(s): Xn – Xi	harmful - irritant
R-Phrases: R 20/21	harmful by inhalation and in contact with skin
R 38	irritating to skin
R 10	flammable
concentration: 7-9% w/w	
- toluene	CAS 108-88-3 EC 203-625-9 Index 601-021-00-3
Hazard symbol(s): Xn – F	harmful - flammable
R-Phrases: R 20	harmful by inhalation
R 11	highly flammable
concentration: 2-3% w/w	
- 1,2-dichloropropane	CAS 78-87-5 EC 201-152-2 Index 602-020-00-0
Hazard symbol(s): Xn – F	harmful - flammable
R-Phrases: R 20/22	harmful by inhalation and if swallowed
R 11	highly flammable
concentration: 1-2% w/w	

3. HAZARDS IDENTIFICATION

This preparation is dangerous under Directive 1999/45/EC, only for the chemical and physical properties (flammable).

risks arising from the chemical-physical properties

Inside the containers may accumulate organic vapours, which are flammable in the presence of a primer.

The vapours are heavier than air and may stagnate in low and closed places (wells, basements, etc..).

The product may accumulate static charges which, under certain conditions, can cause fires.

risks to human health

Exposure to the preparation irritates the eyes and respiratory tract.

Prolonged inhalation of vapours causes headache and dizziness and may have anesthetic effects.

risks to the environment

The preparation has a volatile fraction and a slow biodegradability, which has negative effects both on the soil and on the atmosphere.

The preparation pollutes the waters because it lowers the natural pH value and increases considerably the chemical oxygen demand for the purification.



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4. FIRST AID MEASURES

After inhalation

Prolonged inhalation of vapours causes headache, nausea, dizziness and may have an anesthetic effect. Remove the person from the area contaminated by vapours and leave rest in a clean and temperate place. In case of breathing difficulty; ASK FOR A DOCTOR.

After contact with skin and eyes

In any case of persistent symptoms, ASK FOR A DOCTOR.

Frequent contact with skin and mucous membranes has degreasing effect and may cause dryness and irritation. In such a circumstance:

- Remove immediately contaminated clothing,
- Wash the product off with copious amounts of soap and water.

Contact with eyes causes redness, tearing, burning, irritation. In such a circumstance:

- Remove contact lenses (if they are worn by the victim)
- Wash the product off the eyes, eyelids held open, with plenty of water (preferably lightly warm) as quickly as possible. Continue washing for at least 15 minutes.

After ingestion

Ingestion may cause irritation of the mouth and oesophagus, abdominal pain, vomiting.

Give one or two glasses of water with a suspension of activated charcoal.

Induce vomiting only if indicated by the doctor. DO NOT give alcohol or stimulants without medical advice.

If symptoms persist, seek medical attention.

NEVER GIVE ANYTHING IF THE PATIENT IS UNCONSCIOUS.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray, powder, carbon dioxide, foam.

Cool with water the containers exposed to the fire.

Extinguishing media which must not be used for security reasons

Do not use water jets directly on the product.

Potential exposure hazards arising from the preparation itself, combustion products, resulting gases

The preparation, while burning, emits hazardous and hot combustion fumes, containing of carbon and nitrogen oxides, hydrochloric acid and carbon powders.

Special protective equipment for firefighters

Full protective clothing and, if necessary, breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Information on personal precautions

Wear personal protective equipment to prevent contact with skin, eyes and inhalation of the product.

Remove any people that is not involved in the intervention operations.

Information on environmental precautions

Prevent the continuation of product release (if the intervention is not dangerous for the operators).

Prevent contamination of water by curbing leakages with earth or sand.

Pick up mechanically dry the fraction escaping and accumulate in closed containers suitable for disposal.

Avoid using equipment that could be sparks or ignition sources.

Information on cleaning methods

Wash with detergent and water the contaminated area (making sure that the wash water does not pollute the groundwater or the soil).

7. HANDLING AND STORAGE

Handling

Use only in places well ventilated or equipped with on exhaust ventilation system.

Avoid accumulation of electrostatic charges.



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Take the normal precautions of good working practice.
Do not eat or smoke while using. Wash hands thoroughly after use

Storage

Store in original closed containers in places cool, dry and sheltered from the elements.
Keep separated from strong oxidants and away from heat, open flame or other ignition sources.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Limit values for exposure

ACGIH (ed. 2002) recommends, for the workplace as a TLV-TWA, the following values:

xylene (mix of isomers) 221 mg / m
toluene 188 mg / m
1,2-dichloropropane 347 mg / m

Respiratory protection

Respiratory protection must be implemented with the technical measures that prevent contact between the operator and the preparation; for example, creating a system (fixed or mobile) local exhaust ventilation to channel captured organic vapours to a suitable filtration unit.

In the event that requires an individual respiratory protection, use only PPE with the manufacturer's EC declaration of conformity, CE marking and briefing.

The PPE, for the filtration of organic vapors may be constituted by masks or half masks with brown band filter.

Protection of hands

Use protective gloves coated with plastics (nitrile).

Eye Protection

Use safety glasses.

Protection of the skin

Use full protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	light brown gel
Odour	characteristic
pH (aqueous suspension):	approx 5
Boiling point:	96 °C
Flash point:	24 °C
Flammability (solid, gas):	not applicable
Auto ignition:	> 200 °C
Explosive properties:	not determined
Oxidizing properties:	not determined
Vapour pressure:	5 kPa (at 20 °C) approx.
Relative density:	1 g / mL (at 20 °C)
Water solubility:	> 50%
Fat solubility:	slightly soluble
Solubility in organic solvents:	soluble in many organic solvents
Coefficient n-octanol/water:	not determined

10. STABILITY AND REACTIVITY

Conditions to Avoid

Under normal conditions, the compound is stable.
Avoid high temperatures, open flame and static charges.
At high temperatures, explosive mixtures vapour / air may form.

Materials to avoid

The product is incompatible with strong acids and bases and react with strong oxidants causing fire or explosion.

Hazardous decomposition products

At high temperatures, are freed of carbon nitrogen oxides and, in addition to small quantities of hydrochloric acid; in particular conditions the fumes may contain phosgene.



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SINCERT



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11. TOXICOLOGICAL INFORMATION

None of the components of the preparation is listed as carcinogen by IARC, OSHA, NTP or other.

Inhalation exposure

Inhalation of vapours and aerosols (according to the duration and quantity) may cause coughing, irritation of the respiratory tract, shortness of breath, headache, nausea, drowsiness, unconsciousness.

In severe cases, inhalation of vapours may cause inflammation of larynx and bronchi, chemical pneumonitis and pulmonary edema.

Exposure if swallowed

Ingestion of this material may cause irritation of the mouth and throat, cough, abdominal pain, vomiting.

Exposure for contact with skin and eyes

The contact of material with the eyes may cause redness, burning, eye irritation, lacrimation.

The frequent and prolonged contact of the preparation has defatting effect on skin and may cause skin irritation.

12. ECOLOGICAL INFORMATION

The preparation pollutes the waters, since it lowers the natural pH value and increases the oxygen demand for the chemical purification.

The product is not considered bioaccumulative.

The preparation is partially soluble in water, in any case it moves with the water flow.

The aromatic solvents (toluene, xylene) tend to remain on the surface, from which then evaporate into the atmosphere; while, the chlorinated solvent (1,2-dichloropropane) tends to accumulate on the bottom, on which persists for a long time.

No known data biodegradability, mobility, persistence.

Use according to good working practices, avoiding littering.

Inform the relevant authorities if the preparation has reached streams and / or sewers or contaminate soil.

13. DISPOSAL CONSIDERATIONS

The residual material is classified as hazardous waste.

In case of disposal, operate under the existing national and regional legislation, sending debris at authorized centres.

Do not download the product, either new or used, in sewer tunnels or water courses.

Uncleaned empty packaging should be considered hazardous waste.

Uncontaminated packaging may be recycled.

Do not litter.

14. TRANSPORT INFORMATION

UN Number - Name: UN 1993 "Flammable liquid n.o.s."

Hazard Class: 3 (Flammable Liquids)

Packing Group: III

Marine pollutant: no

The product meets the definition of dangerous goods, therefore, the transporters must be carried out in the original packaging, made of materials which do not react with the content.

Those involved in handling dangerous goods must be adequately trained on the risks and procedures for emergency purposes.

15. REGULATORY INFORMATION

Information appearing on the label

The material is not subject to specific provisions in relation to protection of man and the environment.

This preparation is dangerous under Directive 88/379/EEC and LD. N. 65/03 and is required the application of a label of danger.



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Symbol(s): -

The preparation contains: -

R-Phrases	R 10	Flammable
S-Phrases	S 36/37	Wear suitable protective clothing and gloves
	S 46	If swallowed, seek medical advice immediately and show this container or label
	S 51	Use only in well-ventilated areas
	S 16	Keep away from sources of ignition – Do not smoke

Other national or Community provisions relating to the use of the product

Where applicable, you should refer to the following standards:

Italian Presidential Decree 203/1988 "Implementation of EU Directives on air quality standards" and subsequent amendments

Italian D. Decree 626/1994 "Implementation of EU Directives relating to the improvement of safety and health of workers at work" and subsequent amendments

Italian D. Decree 22/1997 "Implementation of guidelines for the disposal of waste" and subsequent amendments

Italian D. Decree 152/1999 "Provisions on the protection of waters against pollution" and subsequent amendments

Italian D. Decree 334/1999 "Major Accident Hazards"

16. OTHER INFORMATION

The information in the MSDS were found, mainly, by consulting the following sources:

- SINTALEX 7.1 - Association of Environment and Labour
- I.S.S. - Hazardous Substances Data Base
- ECDIN - Environmental Chemicals Data and Information Network
- Register of suppliers

The information contained in this MSDS are based on best available knowledge for our company.

References to the risks related to the preparation and its properties, as well as legislative and bibliographic sources, can not be considered as exhaustive.

The user should consider any additional risk deriving from the terms and conditions of use of the preparation.

The Company assumes no responsibility for non-predictable, incorrect or improper storage, handling, use or disposal.