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SAFETY DATA SHEET

SEMI VISCOUS

Acrylic Adhesive

SDS · K440

Version 01 · Last revision: 15/09/25

01 IDENTIFICATION

1.1 Product name (trade name)	Semi Viscous Acrylic Adhesive (K440)
1.2 Recommended use	Product recommended for bonding plastics such as: Acrylics, Polycarbonate, Polystyrene, PVC, foamed PVC, PETG, ABS, among others.
1.3 Distributed by	Company name: Bold S.A CNPJ: 04.626.152/0002-36 - 04626152000236 Rua Manoel Francisco da Costa de 5242/5243 Ao Fim 5464, Joao Pessoa - Jaraguá do Sul SC 89257-735 - Brazil Telephone: +55 (47) 3274-6500

02 HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture (according to ABNT NBR 14725:2023)

- Skin corrosion/irritation, Category 2
- Serious eye damage/eye irritation, Category 2
- Carcinogenicity, Category 2
- Specific target organ toxicity – single exposure, Category 3

2.2 Label elements (according to ABNT NBR 14725:2023)

Pictograms



Signal word: **WARNING**

Hazard statements

- H315 – Causes skin irritation
- H319 – Causes serious eye irritation
- H351 – Suspected of causing cancer
- H336 – May cause drowsiness or dizziness

Precautionary statements

Prevention

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 - Wash hands thoroughly after handling.
- P271 - Use only outdoors or in a well-ventilated area.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

- P302 + P352 - IF ON SKIN: Wash with plenty of water/...
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 - Call a POISON CENTER/doctor/... if you feel unwell.
- P321 - Specific treatment (see on this label).
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.

- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P362 + P364 - Take off contaminated clothing and wash it before reuse.

Storage

- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
- P405 - Store locked up.

Disposal

- P501 - Dispose of contents/container at an approved waste treatment plant.

03 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Is the product a substance or a mixture?	Mixture
3.2 Chemical identity	Adhesive for Acrylics
3.3 Synonym (if substance)	Not applicable
3.4 CAS number of the substance	Not applicable
3.5 Impurities contributing to the hazard	Contains no impurities that contribute to the hazard.

04 FIRST-AID MEASURES

4.1 Inhalation

- Remove the victim to a ventilated, uncontaminated area. Keep at rest.
- If the victim is not breathing, provide oxygen as necessary, provided that a qualified operator is present.
- Consult a doctor in case of breathing difficulties.
- Do not give mouth-to-mouth resuscitation.

4.2 Skin contact

- Wash the skin with running water for at least 15 minutes.
- Remove contaminated clothing and shoes, and wash contaminated clothing and shoes before reuse.
- Consult a doctor if necessary.

4.3 Eye contact

- Rinse immediately with running water for at least 15 minutes, keeping the eyelids open. Remove contact lenses if possible.
- Do not apply neutralizing agents/chemicals.
- Consult a doctor in case of irritation, pain, tearing, swelling and/or sensitivity to light.

4.4 Ingestion

- Seek medical assistance immediately.
- Do not induce vomiting (vomiting should only be induced under medical instruction).
- If a person vomits while lying on their back, turn them on their side.
- Never give anything by mouth to an unconscious or convulsing person.

4.5 Actions to be avoided

- Mouth-to-mouth resuscitation.
- Induction of vomiting.
- Giving drink or food to an unconscious person.
- Applying chemicals or neutralizing agents to the affected area.

4.6 Most important symptoms and effects, both acute and delayed

Tiredness, vomiting, nausea, headache, dizziness, shortness of breath.

4.7 Notes to physician

Treat symptomatically.

05 FIREFIGHTING MEASURES

5.1 Suitable extinguishing media

Dry chemical powder, carbon dioxide, alcohol-resistant foam or water spray.

5.2 Unsuitable extinguishing media

High-volume water jet.

5.3 Specific hazards arising from combustion of the product

Non-flammable product.

5.4 Advice for firefighters

Personal protective equipment: self-contained breathing apparatus, suitable protective gloves, safety goggles and protective clothing.

5.5 Additional information

- Adapt firefighting measures to local conditions and the surrounding environment.
- Cool containers/tanks by spraying them with water.

06 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

- Place warning signs in the contaminated area and do not allow access to unauthorized persons.
- Evacuate personnel to safe areas.
- Avoid contact with skin and eyes.
- Do not breathe vapours.
- Use personal protective equipment.
- If possible, stop the leak. If indicated, position damaged containers so that the leak point faces upwards.

6.2 Environmental precautions

- Prevent the product from entering the sewer system.
- Try to prevent the product from entering drains or watercourses.
- Local authorities should be notified if a significant spill cannot be contained.

6.3 Methods and materials for containment and cleaning up

Recovery

- Collect the spilled material.
- Collect and transfer to correctly labelled containers.
- Keep in suitable closed containers until disposal.

Neutralization

- Contain the spill, absorb with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for destruction in accordance with local and national regulations.

Decontamination/cleaning

- Collect the spilled material.
- Collect contaminated soil.
- Carefully clean contaminated soil and objects, observing environmental regulations.
- Collect and transfer to correctly labelled containers.

- Keep in suitable closed containers until disposal.
- Contain the spill, absorb with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for destruction in accordance with local and national regulations.

Disposal

- Dispose of contents/container at an approved incineration plant.
- This product must not be discharged into sewers, watercourses or soil.
- Dispose of in accordance with the responsible local authority.
- Local authorities should be notified if a significant spill cannot be contained.

07 HANDLING AND STORAGE

7.1 Handling

- Provide sufficient air exchange and/or exhaust system in work rooms.
- Do not use spark-producing tools and do not smoke in the area.
- Keep away from heat, open flames and sparks.
- Handle in accordance with good industrial hygiene and safety practices.
- Use personal protective equipment.
- Avoid inhalation, ingestion and contact with skin and eyes.

7.2 Appropriate technical measures

- The floor of the storage area must be impermeable and designed to form a retention basin.
- Electrical installations and work equipment must comply with technical safety standards.
- Store away from flames, hot surfaces and ignition sources.
- Store in the original container.
- Keep away from heat.
- Keep in a dry, cool and well-ventilated place.
- Keep under inert gas/nitrogen.
- Keep away from incompatible materials as indicated by the manufacturer.

7.3 Packaging materials

Unsuitable: copper, zinc, aluminium and alloys of these materials.

08 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Specific control parameters

Provide adequate ventilation (local exhaust or general dilution ventilation), as well as an emergency shower and eyewash station.

8.2 Appropriate personal protective equipment (PPE)



- **Skin protection:** Rubber gloves, in case of contact with hands. Waterproof clothing. Safety shoes.
- **Eye protection:** Safety glasses with side shields.
- **Respiratory protection:** Respirator with organic vapour filter – must be available in case of failure of the ventilation/exhaust system.

09 PHYSICAL AND CHEMICAL PROPERTIES

Property	Specification
Physical state	Liquid
Colour	Transparent and colourless
Odour	Slightly sweet
Melting point (°C)	-98
Boiling point (°C)	34.5
Flammability	Non-flammable
Lower/upper flammability limits	Lower – 18 %v/v Upper – 31 %v/v
Flash point (°C)	No data available
Auto-ignition temperature (°C)	671
Decomposition temperature (°C)	No data available
Evaporation rate	No data available
pH	No data available
Viscosity (mPa.s, at 25 °C)	2.35
Solubility (g/100 g water, at 20 °C)	1.22
Partition coefficient – n-octanol/water	Log Pow 1.25
Vapour pressure (mmHg, at 20 °C)	263
Relative vapour density (air = 1)	2.0
Relative density	1.32
Relative density of vapour	No data available
Particle characteristics	Not applicable

Components	Percentage
Halogenated hydrocarbons	10 - 18%
Alkyl halides	10 - 32%
Resins and additives	01 - 50%

10 STABILITY AND REACTIVITY

10.1 Chemical stability

The product is stable under normal conditions of temperature and pressure.

10.2 Reactivity

The product is stable under normal conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Hazardous polymerization of the product is not expected.

10.4 Conditions to avoid

High temperature, exposure to direct sunlight.

10.5 Incompatible materials or substances

Strong bases.

10.6 Hazardous decomposition products

Hydrochloric acid (HCl), Phosgene ($COCl_2$), carbon monoxide and carbon dioxide.

11 TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

The product does not meet the criteria for classification for acute toxicity.

11.2 Skin corrosion/irritation

Prolonged contact may cause skin irritation and redness.

11.3 Serious eye damage/eye irritation

The product may cause serious eye irritation.

11.4 Respiratory or skin sensitization

The product is not expected to cause respiratory or skin sensitization.

11.5 Germ cell mutagenicity

The product is not expected to cause germ cell mutagenicity.

11.6 Carcinogenicity

The product is suspected of causing cancer (IARC 2A – limited evidence in humans, sufficient evidence in animals).

11.7 Reproductive toxicity

The product is not expected to present reproductive toxicity.

11.8 Specific target organ toxicity – single exposure

The product may cause drowsiness or dizziness – central nervous system.

11.9 Specific target organ toxicity – repeated exposure

The product is not expected to present target organ toxicity from single exposure.

11.10 Aspiration hazard

The product is not expected to present an aspiration hazard.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The product is not expected to present ecotoxicity.

12.2 Persistence and degradability

The product is readily and rapidly biodegradable in water (according to ECHA).

12.3 Bioaccumulative potential

The product is not expected to bioaccumulate.

12.4 Mobility in soil

The product is expected to be mobile in soil (log Pow 1.25).

12.5 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Product

Do not dispose of with household waste.

This product must not be discharged into sewers, watercourses or soil. Treatment and disposal must be assessed specifically for each product. Federal, state and municipal legislation must be consulted, including (Brazil): Law No. 12,305 of August 2, 2010 (National Solid Waste Policy).

13.2 Product residues

Keep product residues in their original, properly closed packaging. Disposal must be carried out as established for the product.

13.3 Used packaging

Do not reuse empty packaging. It may contain product residues and must be kept closed and sent for appropriate disposal as established for the product.

14 TRANSPORT INFORMATION

14.1 National and international regulations

	Land	Waterway/Sea	Air
Regulation	ANTT - Agência Nacional de Transportes Terrestres (Brazilian National Land Transport Agency)	IMDG Code - International Maritime Dangerous Goods Code	ANAC - Agência Nacional de Aviação Civil (Brazil): Resolution IATA - International Air Transport Association
UN number	1593	1593	1593
Proper shipping name	Dichloromethane	Dichloromethane	Dichloromethane
Primary hazard class or division	6.1	6.1	6.1
Subsidiary hazard class or division	N/A	N/A	N/A
Hazard number	60	60	60
Packing group	III	III	III
EmS	—	F-A, S-A	—
Environmental hazard	—	The product is not considered a marine pollutant.	—

15 REGULATORY INFORMATION

15.1 Specific regulations for the chemical product (Brazil)

- Federal Decree No. 10,088 of November 5, 2019.
- Law No. 12,305 of August 2, 2010 (National Solid Waste Policy).
- Standard ABNT NBR 14725.
- Regulatory Standard NR 15 – Annex 11.
- Regulatory Standard NR 26.

The user of this SDS should be aware of the possible existence of local regulations for this product.

16 OTHER INFORMATION

16.1 Important information not specifically described in the previous sections

This SDS has been prepared based on current knowledge regarding the proper handling of the product and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving its combination with other materials, as well as uses other than those indicated, are the responsibility of the user. Users are warned that handling any chemical substance requires prior knowledge of its hazards. In the workplace, it is the responsibility of the company using the product to train its employees and contractors on the possible risks arising from exposure to the chemical product.

Sheet prepared in September 2025.

16.2 Key and abbreviations

Abbreviation	Meaning
ADN	European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
ADR	European Agreement on International Carriage of Dangerous Goods by Road.
ATE	Estimated value of acute toxicity
CAS	Chemical Abstracts Service.
DNEL	Derived No Effect Level
EC	European Community number
EC_{50}	Effective concentration of the substance causing 50% of the maximum effect.
GHS/CLP/SEA	Classification, labeling, packaging regulation
IATA	International Air Transport Association.
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air.
IMDG	International Maritime Dangerous Goods.
LC_{50}	Concentration of a substance that causes the death of 50% (half) of a group of test animals.
LD_{50}	Dose of a substance that causes the death of 50% (half) of a group of test animals (median lethal dose).
LT	Up to 48 hours/week
PBT	Persistent, bioaccumulative and toxic substance.
PNEC	Predicted No Effect Concentration
RID	European Agreement concerning the International Carriage of Dangerous Goods by Rail.
STOT	Specific Target Organ Toxicity
TWA	8-hour time-weighted average
TWA	Time weighted average
vPvB	Very persistent and very bioaccumulative.

Not all abbreviations listed above are referenced in this SDS.

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