

SAFETY DATA SHEET

ADHESIVE 1249



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name : ADHESIVE 1249
Code : 1249
Chemical name : Melamine-urea-formaldehyde resin
Use of the substance/preparation : Wood Adhesives

Company/undertaking identification

Manufacturer : CASCO ADHESIVES AB
 Box 11538
 SE-100 61 Stockholm, Sweden
 Phone: + 46 8 743 40 00
Distributor : CASCO ADHESIVES AB
 Box 11538
 SE-100 61 Stockholm, Sweden
 Phone: + 46 8 743 40 00
E-mail address of person responsible for this SDS : use.adhesives@akzonobel.com
Emergency telephone number : +46 8 33 70 43

2. HAZARDS IDENTIFICATION

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : R43
Human health hazards : May cause sensitisation by skin contact.
Additional hazards : The product contains small amounts of unreacted formaldehyde, which may be given off by curing. Formaldehyde vapor may be irritating to respiratory tract.

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

| Ingredient name | CAS number | % | EC number | Classification |
|--|------------|-------|-----------|--|
| <input checked="" type="checkbox"/> methanol | 67-56-1 | 0,1-1 | 200-659-6 | F; R11 [1] [2] T; R23/24/25, R39/23/24/25 |
| formaldehyde | 50-00-0 | 0,1-1 | 200-001-8 | Carc. Cat. 3; R40 [1] [2] T; R23/24/25 C; R34 R43 |
| See section 16 for the full text of the R-phrases declared above | | | | |

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

First-aid measures

- Inhalation** : Move exposed person to fresh air. Get medical attention if irritation occurs.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if adverse health effects persist or are severe.
- Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. In the event of any complaints or symptoms, avoid further exposure. Get medical attention if irritation develops.
- Eye contact** : Check for and remove any contact lenses. Rinse with plenty of running water. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Special exposure hazards** : No specific fire or explosion hazard.
- Hazardous combustion products** : Decomposition products may include the following materials:
metal oxide/oxides
- Special protective equipment for fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Do not touch or walk through spilt material. Avoid contact with eyes, skin and clothing. Use suitable protective equipment (section 8).
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Large spill** : Stop leak if without risk. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Prevent entry into sewers, water courses, basements or confined areas. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.
- Small spill** : Absorb with an inert material and place in an appropriate waste disposal container. Contaminated absorbent material may pose the same hazard as the spilt product.

7. HANDLING AND STORAGE

- Handling** : Do not get in eyes or on skin or clothing. Do not breathe vapour or mist.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat and direct sunlight.

Packaging materials

- Recommended** : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

| <u>Ingredient name</u> | <u>Occupational exposure limits</u> |
|------------------------|--|
| Methanol | EU OEL (Europe, 5/2006). Absorbed through skin. Notes: Indicative limit value 8 hours: 260 mg/m ³ 8 hours. limit value 8 hours: 200 ppm 8 hours. |
| formaldehyde | ACGIH TLV (United States, 1/2007). Skin sensitizer. Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. Refers to Appendix A -- Carcinogens. 2000 Adoption. C: 0,37 mg/m ³ C: 0,3 ppm |

Exposure controls

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational exposure controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.
- Respiratory protection** : Wear appropriate respirator when ventilation is inadequate. Organic vapour filter (Type A).
- Hand protection** : Neoprene gloves. PVC gloves. Nitrile gloves.
- Eye protection** : Safety glasses.
- Skin protection** : Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

- Physical state** : Liquid.
- Colour** : White.
- Odour** : Faint odour.

Important health, safety and environmental information

- pH** : 9,5 to 10,7
- Flash point** : Closed cup: >100°C (>212°F)
- Density** : 1,3 g/cm³
- Solubility** : Soluble in the following materials: cold water and hot water.
- Viscosity** : Dynamic: 10000 to 25000 mPa·s (10000 to 25000 cP)

10. STABILITY AND REACTIVITY

- Stability** : The product is stable.
- Conditions to avoid** : No specific data.
- Materials to avoid** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

- Inhalation** : None.
- Ingestion** : None.
- Skin contact** : May cause sensitisation by skin contact.
- Eye contact** : None.

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-----------|---------|------------|----------|
| Methanol | LD50 Oral | Rat | 5600 mg/kg | - |
| formaldehyde | LD50 Oral | Rat | 100 mg/kg | - |

Potential chronic health effects

- Chronic effects** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

- Inhalation** : No specific data.

11. TOXICOLOGICAL INFORMATION

- Ingestion** : No specific data.
- Skin** : Adverse symptoms may include the following:
irritation
redness
- Eyes** : No specific data.

12. ECOLOGICAL INFORMATION

- Environmental effects** : There is no data available on the preparation itself.

Aquatic ecotoxicity

| Product/ingredient name | Result | Species | Exposure |
|--|--|----------------------------|----------|
| <input checked="" type="checkbox"/> Methanol | Acute EC50 12700 to 13700 mg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| | Acute LC50 3289 to 4395 mg/L Fresh water | Daphnia - Daphnia magna | 48 hours |
| formaldehyde | Acute EC50 5800 to 7800 ug/L Fresh water | Daphnia - Daphnia pulex | 48 hours |
| | Acute LC50 1,41 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

- Conclusion/Summary** : No known significant effects or critical hazards.

Biodegradability

- Conclusion/Summary** : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal should be in accordance with applicable regional, national and local laws and regulations. Liquid residues and packages contaminated with those shall be treated as hazardous waste. Dried/cured product, with or without packing material, may be handled as normal industrial waste. Consult the local waste contractor and the local authority about the best way of handling cured adhesive.

- European waste catalogue (EWC)** : 080409

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

- Hazardous waste** : Yes.

14. TRANSPORT INFORMATION

International transport regulations

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label | Additional information |
|------------------------|----------------|----------------------|-------------------------------------|-----|-------|------------------------|
| ADR/RID Class | Not regulated. | - | <input checked="" type="checkbox"/> | - | | - |
| IMDG Class | Not regulated. | - | <input checked="" type="checkbox"/> | - | | - |
| IATA Class | Not regulated. | - | <input checked="" type="checkbox"/> | - | | - |

PG* : Packing group

15. REGULATORY INFORMATION

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

- Hazard symbol or symbols** :



15. REGULATORY INFORMATION

| | | |
|--------------------------------------|---|-----------|
| | ☑ Irritant | |
| Risk phrases | : R43- May cause sensitisation by skin contact. | |
| Safety phrases | : S24- Avoid contact with skin. S37- Wear suitable gloves. | |
| Contains | : ☑ formaldehyde | 200-001-8 |
| Product use | : ☑ Industrial applications. | |
| Other EU regulations | | |

16. OTHER INFORMATION

| | |
|--|---|
| Full text of R-phrases referred to in sections 2 and 3 - Europe | : R11- Highly flammable. R40- Limited evidence of a carcinogenic effect. R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R34- Causes burns. R43- May cause sensitisation by skin contact. |
| Full text of classifications referred to in sections 2 and 3 - Europe | : ☑ - Highly flammable Carc. Cat. 3 - Carcinogen category 3 T - Toxic C - Corrosive |

History

| | |
|---------------------------------------|-------------------|
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| Prepared by | : Kristofer Modin |

☑ Indicates information that has changed from previously issued version.