

SAE100-3 - HE00026
SAE100-20 - HE00026
SAE100-SD - HE00026

Product name: SEKISUI POWERGLUE E-100

Date: February 1994

SAFETY DATA SHEET

1. Identification of the substance or the preparation and of the company/business.

Product name: POWERGLUE E-45.

Application : liquid cyanoacrylate adhesive.

Name, full address and telephone number of the supplier:

Sekisui Chemical Co., Ltd.
2-4-4, Nishitemma, Kita-ku
Osaka 530, Japan

Tel. 06-365-4340
Fax 06-365-4383

Telephone number for emergencies: 03-3254-7591

2. Composition and information on the ingredients.

Substances which pose a risk to health according to the directives of the Council of the European Communities 88/379/EEC (Pb EC L187) and its additions.

| Name | Concentration range | Symbol | R-sentences (*) |
|---------------|---------------------|--------|-----------------|
| Cyanoacrylate | > 50 ≤ 100 | - | - |

This is a preparation.

3. Risks

Cyanoacrylate.

Dangerous.

Bonds in a few seconds to skin and eyes.

4. First aid measures.

General:

In case of doubt or if symptoms persist, consult a doctor.

Inhalation:

Move the patient to the outside air and keep him warm. Avoid exertion.

If the patient is not breathing, or is breathing irregularly, give artificial respiration. Do not give food or drink. If the patient is unconscious, put him in the recovery position and consult a doctor.

(*) See section 16 for the full text of the R-sentences.

Contact with the eyes:

Rinse thoroughly for at least ten minutes with flowing water whilst the eyes are kept open. Consult a doctor.

Avoid forced efforts to loosen the adhesive compound.

Contact with the skin:

Take off contaminated clothing. Wash the skin thoroughly with water and soap. If necessary use a detergent suitable for the purpose. Do NOT use any solvents or thinners. Avoid forced efforts to loosen the adhesive compound.

Ingestion through the mouth:

If the product has been swallowed, consult a doctor immediately. Keep the patient calm. Do NOT induce vomiting.

5. Fire-fighting measures.

Extinguishers:

Recommended : alcohol-resistant foam, CO₂, powder extinguishers, water mist.

Do not use : water jet.

Recommendations: Fire causes thick, black smoke. Exposure to the breakdown products can pose a hazard to health. Suitable breathing apparatus may be necessary. Cool the containers which have been exposed to the fire with water. Ensure that the fire-extinguishing material does not end up in the drain or surface water.

6. Measures to be taken in the event of accidental release of the substance or the product.

Do not inhale the vapours. Follow the protective measures as described in sections 7 and 8. Dam in the spilt material and absorb it with non-combustible absorption materials such as sand, earth, vermiculite or diatomaceous earth and place these in a container so that it can be processed according to the local rules (see section 13). Prevent it from ending up in the sewers or surface water.

Clean preferably with a detergent; avoid using solvents.

If the product contaminates lakes, rivers or the sewers, you should notify the authorities in accordance with local rules.

7. Handling and storage.

Handling:

The vapours are heavier than air and may spread along the floor. Contact with concentrations above the exposure limit should be prevented.

Persons whose skin has previously shown hypersensitivity reactions for cyanoacrylate must not be involved in work with this product.

Avoid contact with the eyes and skin. Do not inhale vapour and spray mist. Smoking, eating and drinking must be prohibited in rooms where the product is used.

Protection of the skin:

After contact, all parts of the body should be washed.

9. Physical and chemical properties.

Form : transparent liquid
Flash point : approx. + 80°C
Viscosity : approx. 80-120 mPa.s (20°C)
Density : approx. 1050 kg/m³
Vapour density : heavier than air
Lower explosion limit: n.a.
Solubility in water : not miscible (reacts exotherm with water)

10. Stability and reactivity.

This preparation contains materials which are inconstant in the following circumstances: heat, strong UV-sources, free radical initiators, peroxide, strong basings and reactive metals. These circumstances can lead to exothermic polymersation of the product. Unintentional contact must be avoided.

Stable in storage and if used as specified (see section 7). If exposed to high temperatures, hazardous breakdown products can arise, such as carbon monoxide and carbon dioxide, smoke, nitrogen oxides, chlorine-containing decomposition products. Avoid any contact with oxidising agents, strongly alkaline and strongly acidic materials in order to prevent exothermic reactions.

11. Toxicological information.

The product can have a sensitizing effect on the skin and respiratory system. As the product is also irritant, repeated contact with it can cause eye, nose and throat irritations and lead to sensitisation. If the liquid gets into the eyes, it can cause irritation and bring about irreparable damage.

12. Ecological information.

No particular influence is caused by the product. But the product must not end up in the sewers or surface water.

13. Instructions for removal.

Do not allow the product to enter the drains or surface water.
Remove waste and empty containers in accordance with national regulations.

See section 8 for personal protection.

Never use pressure to empty the container. The container is not a pressure vessel. Always keep the product in containers of the same material as the original container. Adhere to the safety and health regulations at the place of work.

Storage:

Store in accordance with the national regulations.

Comply with the recommendations on the label. Store the product at a temperature of between + 5 and + 20°C in a dry, well ventilated room, away from heat sources and direct sunlight.

Avoid any contact with oxidising agents, strongly basic and strongly acidic materials.

No unauthorised personnel. Containers which have been opened should be carefully sealed and stored upright to prevent leakage.

8. Measures to control exposure/personal protection.

Technical safety measures:

Ensure sufficient air replacement. Where possible, this must be achieved by means of point extraction and good space ventilation.

If these are not sufficient to keep the concentration of particles and vapour of solvents below the MAC value (threshold limit value), suitable respiratory protection should be worn.

Exposure limits:

The following MAC values are applicable:

| | MAC-C (1) | | MAC-TWA (2) | |
|---------------|-----------|-------------------|----------------------------------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |
| Cyanoacrylate | - | - | not fixed (recommendation 2 ppm) | |

Source: National MAC List (Netherlands).

Personal protection:

Protection of the respiratory organs:

If personnel are exposed to a level above the maximum, they must use the correct, approved respiratory protection.

Protection of the hands:

Use polyethylene gloves.

In the event of repeated and/or prolonged contact:

A barrier cream can help to protect the exposed parts of the skin.

However, it must not be used if contact has already occurred.

Protection of the eyes:

Use safety goggles which provide protection against splashes.

(1) Maximum Allowable Concentration - Ceiling value.

(2) Maximum Allowable Concentration - Time-Weighted Average.

14. Information with regard to transport.

RID/ADR: Class: 3 Item: 32c
 Label: none

15. Information required by law.

Labelling instructions according to the directives of the Council of the European Communities 88/379/EEC (Pb EC L187) and its additions.

Cyanoacrylate.

Dangerous.

Keep out of reach of children.

Bonds in a few seconds to skin and eyes.

16. Other information.

Full text of the R-sentences referred to in section 2:

The information in this safety data sheet is based on the knowledge in our possession at present and is in accordance with national and EC legislation, since the conditions in which the product is used are not known to us and lie outside our sphere of influence. The product may not be used for purposes other than those specified in section 1 without prior written instructions for use. It is the responsibility of the user at all times to take the necessary measures with regard to complying with the stipulations of local laws and regulations. The information in this sheet is intended as a description of the safety instructions applicable to our product: it should not be regarded as a guarantee of the properties of our product.

The particulars included in this safety data sheet have been put together in accordance with the directives of the Council of the European Communities 91/155/EEC.
