

Material Safety Data Sheet

according to directive 91/155/EWG

Products: Photopolymers PIC 100 for Perfactory®

from: 2008-06-15
page 1 of 4

1. Identification of the substance/preparation and of the company:

Trade name: Photopolymer PIC 100
Information on the manufacturer: EnvisionTEC Inc.
15162 South Commerce Dr. Dearborn, MI 48120 USA
Tel.: 1-313-436-4300
Fax: 1-313-436-4303
Emergency telephone: 1-313-436-4303

2. Composition / Information on ingredients:

| <u>Chemical composition</u> | <u>CAS-No.</u> | <u>Percentage</u> | <u>Symbol(s)</u> | <u>R-phrase(s)</u> |
|-----------------------------|----------------|-------------------|------------------|--------------------|
| Methacrylate monomer | Trade secret | 60-90 % | Xi | 36 |
| Acrylate monomer | Trade secret | 0-35 % | Xi | 36/38/43 |
| Photoinitiator | 119313-12-1 | 0.1 - 5% | Xn | 48/22 |

3. Hazards identification:

Symbol: Xi irritant **R: 36/38 - 43**

May cause eye and skin irritation. May cause an allergic skin reaction. Avoid contact with eyes, skin and clothing. Do not handle or empty in presence of flammable vapour.

4. First aid measures:

After skin contact: Wash off with plenty of water and soap. If enduring skin irritation consult a physician

After eye contact: Wash off with flowing water with the eye -lid held wide open for 15 minutes; consult a physician.

After inhalation: Take to fresh air. Drink water.

After ingestion: Drink 500-800 ml of water, if possible dissolved with medical charcoal. Taking care at a spontaneous vomiting that the vomit can drain away unhindered because of asphyxiation danger. – Stable side position. Drink water several times. Only trained first helpers are left up to cause an artificial vomiting. No serving at unconsciousness or cramps. Consult a physician.

5. Fire fighting measures:

Suitable extinguishing media: Water fog, foam, carbon dioxide, fire-fighting powder

Unsuitable extinguishing media: Water jet

Special endangering: Don't let the fire-fighting water get into the sewerage, soil or waters

Special protection equipment: Protective clothing for chemicals with breathing apparatus independent of circulating air

Material Safety Data Sheet

according to directive 91/155/EWG

Products: Photopolymers PIC 100 for Perfactory®

from: 2008-06-15
page 3 of 4

10. Stability and reactivity:

Conditions to be avoided: Avoid direct light and solar radiation.
Avoid heat and ignition sources.

Substances to be avoided: Polymerization may occur in contact with peroxides, reducing agents, free radicals and heavy metal ions.

11. Toxicological information:

Irritant effects to skin

| <u>Component</u> | <u>Effect</u> | <u>Duration of Exposure</u> | <u>Species</u> | <u>Method</u> |
|----------------------|----------------------------------|-----------------------------|----------------|---------------|
| Methacrylate monomer | Suspect slight irritation hazard | | | |
| Acrylate monomer | Suspect irritation hazard | | | |

Irritant effects to the eyes

| <u>Component</u> | <u>Effect</u> | <u>Duration of Exposure</u> | <u>Species</u> | <u>Method</u> |
|----------------------|----------------------------------|-----------------------------|----------------|---------------|
| Methacrylate monomer | Suspect slight irritation hazard | | | |
| Acrylate monomer | Suspect irritation hazard | | | |

Sensitization

| <u>Component</u> | <u>Effect</u> | <u>Duration of Exposure</u> | <u>Species</u> | <u>Method</u> |
|----------------------|-------------------------------------|-----------------------------|----------------|---------------|
| Methacrylate monomer | Suspect slight sensitization hazard | | | |
| Acrylate monomer | Suspect sensitization hazard | | | |

12. Ecological information:

Eco-toxic effects

Quantitative data on the ecological effects of the product are not available.

Further ecological hints: Product mustn't get into the soil resp. into standing/running waters or the sewerage

13. Disposal considerations:

Product: Observe local/national decrees concerning to special waste removal
Waste key No. 57202
Manufacture remains of synthetic- material-production and processing

Package: Package contaminated: Same as the disposal of the substance itself
Package not contaminated: Reusing/recycling resp. disposing like domestic garbage

Material Safety Data Sheet

according to directive 91/155/EWG

Products: Photopolymers PIC 100 for Perfactory®

from: 2008-06-15
page 4 of 4

14. Transport information:

Not a dangerous good in accordance with the transport regulations.

15. Regulatory information:

Labelling according to EC-directives

| | | |
|-----------------------------------|--------------------------|---|
| Symbol | | Xi |
| Danger designation | | Irritant |
| Component(s) decisive for dangers | | Methacrylate monomer Acrylate monomer |
| R-Phrases | R36 R43 | Irritating to eyes. May cause sensitization by skin contact. |
| S-Phrases | S22 S24 S26 S28 | Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water and seek medical advise. After contact with skin, wash immediately with plenty of water and soap. |

National regulations:

| | | | |
|----------------------------|-----|---|---------------------|
| Water endangering category | WGK | 2 | self classification |
|----------------------------|-----|---|---------------------|

16. Other information:

Abbreviations: n.a.= not applicable
n.d.= not determined

This Safety Data Sheet is based on our current knowledge and the experience with the product. It is exclusively meant for reducing the risks of dealing with the product and therefore only describes it with regard to security aspects. The details are no guaranteed characteristics according to our public terms of business. They do not release the user from the compliance of laws, regulations and rules.