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| Trade Name: | R-KEM + |
| Producer/Supplier: | Artex – Rawlplug Limited Skibo Drive Thornliebank Industrial Estate Glasgow G46 8JR |
| Revised: | 12.01.2005 |

1. Identification of the substance/preparation and of the company/undertaking**1.1 Trade name**

Injection System RAWL R-KEM Polyester styrenefree

1.2 Firm Name

Artex – Rawlplug Limited

1.3. Telephone number of the firm in case of emergencies:

Tel.: 0141-638-7961

2. Composition/information on ingredientsChemical characteristics

Component A: Polyester resin in Dipropyleneglycolediacylate; 1,2 Ethandiole, filled

Component B: Dibenzoylperoxide, phlegmatisized, filled

Hazardous ingredients

| CAS-Nr. | Hazardous ingredient | Conc.(weight.-%) | Symbol | R-phases |
|-------------------------------------|-------------------------------------|-----------------------|-------------|----------|
| Component A: 100-42-5 | Dipropyleneglycolediacylate | 12,5-30% | Xi | 36/38-43 |
| Component B: 94-36-0 107-21-1 | Dibenzoylperoxide 1,2 Ethandiole | 10-40% 3-10% Xn | O, Xi 22 | 7-36-43 |

3. Hazards identification

Hazards and symptoms:

Component A:R 36/38 – Irritation to eyes and skin

R 43 – Sensibilisation by skin contact is possible

Component B:R 7 - May cause fire

R 22 – Harmful by ingestion

R 36 - Irritation to eyes

R 43 - Sensibility by skin contact is possible

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4. First aid measures

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| General instructions: | Take off and remove contaminated clothing immediately. |
| If inhaled: | Bring person concerned to fresh air and keep him calm. Refer for medical treatment. |
| On skin contact: | Wash thoroughly with soap and water. |
| On contact with eyes: | Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. |
| On ingestion: | Immediately rinse mouth and then drink plenty of water, summon physician. |
| Instructions for the doctor: | No data available. |

5. Fire-fighting measures

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| Suitable extinguishing media: | Foam, water, dry extinguishing media, CO ₂ |
| Extinguishing media that must not be used for safety reasons: | No data available. |
| Special hazards from the substance itself, its combustion products or resulting gases: | In case of fire can be released: Carbon monoxide, carbon dioxide, water and cracked hydrocarbons. |
| Special protective equipment: | Breathing apparatus. |
| Further information: | No data available. |

6. Accidental release measures

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| Personal precautions: | Use personal protective clothing. Ensure sufficient fresh air. |
| Environmental precautions: | Do not discharge into the drains, surface waters, ground waters. |
| Methods for cleaning up: | Take up mechanically. Contain with absorbent material (e.g. sand, silica gel, acid binder, general purpose binder, sawdust). |
| Further information: | No data available. |

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7. Handling and storage

Handling:

Instructions for safety handling: Consider use by date on cartridge.
 Instructions for fire and explosion protection: Keep away from sources of ignition. Do not smoke.

Storage:

Requirements for storage
 Rooms and vessels: Product in original packing at a cool, dry and dark place with good air condition. Protect against sun and heat influence.
 Vessel content: 300ml
 Vessel material: Plastic cartridge.
 Storing temperature: 5°C < To < 25°C to maintain quality.
 Storage class: No data available.
 Further instructions: Keep out of the reach of children.

8. Exposure controls/personal protection

Personal protective equipment:

General protection and hygienic measures: Closed working clothes, preventive skin protection with skin protection cream. Avoid contact with skin, eyes and clothes.
 Breathing mask: When MAK-value is exceeded.
 Hand protection: Protective gloves.
 Body protection: Closed working clothes.

9. Physical and chemical properties

Form: Paste
 Colour: A-Component: white – B-Component: black
 Odour: characteristic
 Boiling point: > 200°C (Comp. A)
 Flash: > 100°C (Comp. A)
 Decomposition temperature: > 60°C (Comp. B)
 Solubility: not soluble (Comp. A)
 minimal soluble (Comp. B)
 Content of solvent: < 30 Gew. %

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10. Stability and reactivity

Hazardous reactions: Heat develops during polymerisation.
Hazardous decomposition products: Carbon monoxide, carbon dioxide, water and cracked hydrocarbons.
Thermal decomposition: Component B: above 60 °C

11. Toxicological informationAcute toxicity:

Acute oral toxicity: LD50/rat: 4000 mg/kg (1,2 Ethandiole)
LD50 Dibenzoylperoxide/rat > 5000 mg/kg
Acute inhal. toxicity: LC50/4h Dibenzoylperoxide/rat > 2000 mg/kg
Dermal toxicity: LD50/hare: 2000 mg/kg (1,2 Ethandiole)
Irritant effect on skin: Irritant
Irritant effect on eye : Irritant
Sensibility: Possible by skin contact (Dibenzoylperoxide)
Sub-acute to chronic toxicity: No data available
Further remarks on
toxicological examination: No data available
Experience made in practice: unknown

12. Ecological informationBehavior in environment compartments:

When dropping small concentrations in suitable biological purification plants disturbances of decomposition activity of living sludge are not to be expected.

Further ecological information:

Insoluble. Do not discharge product into natural waters without pre-treatment (biological purification plant).

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13. Disposal considerations

Disposal of product:

Advices: Non cured: must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.
Cured: can be dumped with domestic refuse or incinerated in suitable plant in accordance with local regulations.

Waste code: Component A: 080102
Component B: 07 02 99
08 04 04 (cured)

Disposal of contaminated packaging:

Advices: Contaminated packaging should be emptied as far as possible and after appropriated cleaning may be taken for reuse. Packaging that cannot be cleaned should be disposed of in the same manner as the contents.

14. Transport information

Land transport ADR/RID and GGVS/GGVE:

Regulations do not apply to this product (small amount).
UN-No. 3269 Polyester resin , small amount.

Inland waterway transport ADN/ADNR:

Regulations do not apply to this product (small amount).
UN-No. 3269 Polyester resin (small amount).

Sea transport IMDG/GGVSee:

Class: 3.3
Code: 3377-1
PG: III
EMS: 3-07
MFAG: 310
Marine pollutant: yes
Proper technical name: Polyester resin kit

Air transport ICAO/IATA:

Class: 3
PG: III
Proper technical name: Polyester resin kit

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15. Prescriptions

Labelling according to EEC directives:

Labelling: The product is classified and labelled in accordance to EG-regulations

Hazards: Component A: Xi – irritating
Component B: Xi – irritating, O – oxidizing

Hazardous components to be indicated on label

Component A: Dipropyleneglycolediacylate

Component B: Dibenzoylperoxide; 1,2 Ethandiole

R-Phrases:

Component A: R 36/38 – Irritating to eyes and skin.
R 43 – Sensibilisation by skin contact is possible

Component B: R 7 – May cause fire
R 36 – Irritating to eyes
R 43 – Sensibility by skin contact is possible

S-Phrases:

Component A: S 24 – Avoid skin contact
S 26 – On eye contact wash immediately and thoroughly with water, consult an eye specialist
S 37 - Wear suitable safety gloves

Component B: S 2 - Keep out of the reach of children.
S 3/7 - Keep container tightly closed in a cool place.
S 14 - Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators.
S 15 - Keep away from heat.
S 24/25 - Avoid contact with skin and eyes.
S 36/37/39 - Wear suitable protective clothing and safety gloves and eye/face protection.
S 50 – Do not mix with peroxide accelerators and reducing agents.

16. Further information

No data available.

This information is based on our present state of knowledge. It describes our product in view of the requirements for safety. It does not assure certain properties of the product. A legal relationship is not vested.

Duplication without changes of the original version is allowed.
