

SAFETY DATA SHEET

MATERIAL SAFETY DATA SHEET

Last changed: 19/03/2003

Internal No.: 09 21 03

Replaces date:

Simulated Blood

1. IDENTIFICATION OF SUBSTANCE AND COMPANY

| | |
|-------------|-----------------|
| TRADE NAME | Simulated Blood |
| APPLICATION | Liquid. |

| | |
|-------------------|---|
| Producer/importer | Limbs & Thing Limited |
| Address | Radnor Business Centre, Radnor Road Horfield, Bristol |
| Postal code | BS7 8QS, UK |
| Country | England |
| Telephone | +44 (0) 117 9446466 |
| Fax | +44 (0) 117 9446222 |

2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT COMMENTS

3. HAZARDS IDENTIFICATION

GENERAL

This product is not hazardous to health and environment according to EC criteria.

4. FIRST AID MEASURES

GENERAL

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

INHALATION

No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

SKIN CONTACT

Wash off in flowing water or shower.

EYE CONTACT

Flush eyes with plenty of water.

INGESTION

No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

MEDICAL INFORMATION

No specific antidote. Supportive care. Treatment based on judgement of the physician in response to reactions of the patient.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water fog or tine spray. Carbon dioxide. Alcohol resistant foam. Dry Chemical.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS

Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Spills may cause very slippery surfaces.

ENVIRONMENTAL PRECAUTIONS

Contain liquid to prevent contamination of soil, surface water or ground water.

METHODS FOR CLEANING UP

Spills should be contained by, and covered with large quantities of sand, earth or any other readily available absorbent material, which is then brushed in vigorously to assist absorption. Remove with non-sparking shovel. Collect in suitable and properly labelled containers. Dispose off according to applicable regulations; See section 13 - Disposal Considerations.

7. HANDLING AND STORAGE

HANDLING ADVICE

Practice care and caution to avoid skin and eye contact.

STORAGE

Store containers tightly closed in a well-ventilated area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

| Ingredient name | Cas nr. | Interval | ppm | mg/m3 | Year | Notes |
|----------------------|---------|----------|-----|-------|------|-------|
| Polyethylene glycols | | 8 h | | 10,0 | 2001 | |

EXPOSURE CONTROL

Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

RESPIRATORY PROTECTION

No respiratory protection should be needed.

PROTECTIVE CLOTHING

When prolonged or frequently repeated contact could occur, use protective clothing impervious to this material. Selection of specific items such as face shield, gloves, boots, apron, or full body suite will depend on operation. Protective clothing may be necessary when individual skin is abraded.

OTHER INFORMATION

Polyethylene glycols: AIHA Workplace Environmental Exposure Level Guide (WEEL) is 10 mg/m³.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-----------------------|------------------------------|------------------------|
| Physical State: | Liquid. | |
| Colour: | Red. | |
| Odour: | | |
| Solubility: | Soluble in water. | |
| Melting point/range: | Density: | |
| Expl. limit LEL-UEL%: | Solubility in water: | Complete |
| Vapour pressure: | 0,1 mbar (20°C) | Saturation conc.: |
| Decomposition temp.: | Rel. dens. sat. air (air=1): | |
| pH solution: | Boiling point/range: | |
| Flash point: | > 100°C | pH concentrate: |
| Molar weight: | Viscosity: | 60-70 mPas (20°C) |
| Ignition temp.: | > 300°C | Odour threshold value: |
| Rel.vap.dens.(air=1): | Rel. evap. velocity: | |
| Air reactive: | Water reactive: | |
| | | |
| | | |

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10. STABILITY AND REACTIVITY

STABILITY

Based on actual testing or on data for similar material(s).

MATERIALS TO AVOID

Oxidising agents. Acids.

OTHER INFORMATION

Product degrades slowly in the presence of air at elevated temperatures. Degradation occurs rapidly as temperatures approach the flash point.

11. TOXICOLOGICAL INFORMATION

| | | |
|------------------|---------------|-----------------------|
| Acute oral tox. | LD50 (rats) | 30 000 - 33 000 mg/kg |
| Acute derm. tox. | LD50 (rabbit) | >20 000 mg/kg |
| Inh. toxicity | | |

INHALATION

Vapours are unlikely due to physical properties.

SKIN CONTACT

A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. Prolonged/repeated exposure to damaged skin (as in burn patients) may result in absorption to toxic amounts. Vapours are unlikely due to physical properties.

Prolonged or repeated exposure not likely to cause significant skin irritation. May cause more severe response if skin is abraded (scratched or cut).

EYE CONTACT

May cause slight transient (temporary) eye irritation.

INGESTION

Single dose oral toxicity is considered to be low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

12. ECOLOGICAL INFORMATION

DEGRADABILITY

Biodegradation reached in Manometric Respirometry Test (OFCD Test no 301F) after 28 days: 90%. Material is readily biodegradable. Passes OECD Test(s) for ready biodegradability.

ACCUMULATION

No bioconcentration is expected because of the high water solubility. Log octanol/water partition coefficient (log POW) is estimated to be <3.

ECOTOXICITY

Acute IC50 for fathead minnow (*Pimephales promelas*) is 87,209 mg/L.

Acute EC for water (*Daphnia magna*) is 53,484 mg/L.

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50 greater than 100 mg/L in most sensitive species).

OTHER INFORMATION

Based on actual testing or data for similar material(s).

13. DISPOSAL CONSIDERATIONS

GENERAL REGULATIONS

Incinerated under controlled conditions in accordance with all local and national laws and regulations. Empty containers can only be disposed of when the remaining waste products adhering to the container walls have been removed. Remove all labels.

14. TRANSPORT INFORMATION

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Classified as Dangerous Goods:

Yes

No

N/A

OTHER INFORMATION

This product is not classified for any mode of transportation.

15. REGULATORY INFORMATION



Classif.:

EC-Label

Yes

No

N/A

REFERENCES

Existing polymer according to the definition in the 7th Amendment to Directive 67/548/EEC and all starting materials and additives are listed in EINECS.

OTHER INFORMATION

This product does not require classification according to the criteria of the commission of the European Communities.

16. OTHER INFORMATION



VENDOR NOTES

Limbs & Things Ltd , November 2000 Ref: RT

The information herein is given in good faith and to the best of our knowledge but no warranty, express or implied is made

ISSUED:

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