

Printing date 12/19/2005

Reviewed on 11/25/2005

* **1 Identification of substance**

· Product details

- Trade name: **Triple Effect**
- Article number: 10846
- Application of the substance / the preparation Protective impregnation
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960
Lechstrasse 28 Fax. +49(0)911-644456
D 90451 Nürnberg e-mail info@akemi.de
- Information department: Laboratory

* **2 Composition/Data on components**

- Chemical characterization
- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:
- | | | |
|-------------------------|-------------------|--------|
| CAS: 67-63-0 | propan-2-ol | <12.5% |
| EINECS: 200-661-7 | Xi, F; R 11-36-67 | |
| EU Number: 603-117-00-0 | | |
- Additional information: For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- Hazard description: Not applicable.
- Information pertaining to particular dangers for man and environment: The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0 - 4) Health = 0
Fire = 2
Reactivity = 0
- HMIS-ratings (scale 0 - 4) Health = 0
Fire = 2
Reactivity = 0

4 First aid measures

- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: Not required.
- Measures for environmental protection: Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 2)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 11/25/2005

Trade name: **Triple Effect**

(Contd. of page 1)

· Additional information: No dangerous substances are released.

7 Handling and storage

- Handling:
- Information for safe handling: No special measures required.
- Information about protection against explosions and fires: No special measures required.
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from frost.

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
 - Components with limit values that require monitoring at the workplace:
- 67-63-0 propan-2-ol**
- PEL 980 mg/m³, 400 ppm
 REL Short-term value: 1225 mg/m³, 500 ppm
 Long-term value: 980 mg/m³, 400 ppm
 TLV Short-term value: 984 mg/m³, 400 ppm
 Long-term value: 492 mg/m³, 200 ppm
- Additional information: The lists that were valid during the creation were used as basis.
 - Personal protective equipment:
 - General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.
 - Breathing equipment: Not required.
 - Protection of hands: Not required.
 - Material of gloves: Not determined
 - Penetration time of glove material: Not determined
 - Eye protection: Goggles recommended during refilling.

9 Physical and chemical properties

- General Information
- Form: Fluid
- Color: Light yellow
- Odor: Specific type
- Change in condition
- Melting point/Melting range: Undetermined.
- Boiling point/Boiling range: Undetermined.
- Flash point: > 55°C (> 131°F)
- Ignition temperature: 425°C (797°F)
- Auto igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Density at 20°C (68°F): ~ 1.0 g/cm³

(Contd. on page 3)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 11/25/2005

Trade name: **Triple Effect**

(Contd. of page 2)

- Solubility in / Miscibility with Water: Fully miscible.

10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
 · Dangerous reactions No dangerous reactions known.
 · Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
 · Primary irritant effect:
 · on the skin: No irritant effect.
 · on the eye: No irritating effect.
 · Sensitization: No sensitizing effects known.
 · Additional toxicological information: The product is not subject to classification according to internally approved calculation methods for preparations:
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information

- General notes: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Water hazard class 1 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- Product:
 · Recommendation: Smaller quantities can be disposed of with household waste.
 · Uncleaned packagings:
 · Recommendation: Disposal must be made according to official regulations.
 Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

14 Transport information

- DOT regulations:
 · Hazard class: -
 · Land transport ADR/RID (cross-border):
 · ADR/RID class: -
 · Maritime transport IMDG:
 · IMDG Class: -
 · Marine pollutant: No
 · Air transport ICAO-TI and IATA-DGR:
 · ICAO/IATA Class: -

15 Regulations

- Sara
 · Section 355 (extremely hazardous substances):
 None of the ingredient is listed.
 · Section 313 (Specific toxic chemical listings):
 67-63-0 propan-2-ol

(Contd. on page 4)

USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 12/19/2005

Reviewed on 11/25/2005

Trade name: **Triple Effect**

(Contd. of page 3)

- TSCA (Toxic Substances Control Act):
All ingredients are listed.
- Proposition 65
Chemicals known to cause cancer:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.
- Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.
- Chemicals known to cause developmental toxicity:
None of the ingredients is listed.
- Cancerogenity categories
- EPA (Environmental Protection Agency)
None of the ingredients is listed.
- IARC (International Agency for Research on Cancer)
67-63-0 propan-2-ol: 3
- NTP (National Toxicology Program)
None of the ingredients is listed.
- TLV (Threshold Limit Value established by ACGIH)
None of the ingredients is listed.
- MAK (German Maximum Workplace Concentration)
None of the ingredients is listed.
- NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
- OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.
- Product related hazard informations:
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.
- Safety phrases:
Keep out of the reach of children.
If swallowed, seek medical advice immediately and show this container or label.
- National regulations:
- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Laboratory
- Contact: Dieter Zimmermann
- * Data compared to the previous version altered.