

Reviewed on 01/23/2014

1 Identification

Product Name: Everchem RD 105

- **CAS Number:**
2210-79-9
- **EC number:**
218-645-3
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Reactive Diluents

· **Supplier Information:**

Company Name: Everchem Specialty Chemicals
 Address: 1400 N. Providence Road Media, PA 19063 USA
 Tel. No: (484)234-5030 Fax No.:(484)234-5037
 Website: www.everchem.com

Emergency telephone number:

For Chemical Emergency - Spill, Leak, Fire, Exposure or Accident
 Call CHEMTREC Day or Night USA + Canada = 1-800-424-9300 / 703-527-3887

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS08 Health hazard

H341 Suspected of causing genetic defects.



GHS09 Environment

H411 Toxic to aquatic life with long lasting effects.



GHS07

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Harmful

Possible risk of irreversible effects.



Irritant

Irritating to skin.



Revision

May cause sensitisation by skin contact.



Dangerous for the environment

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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- **Information concerning particular hazards for human and environment:** Not applicable.

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- **Label elements**

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

- **Code letter and hazard designation of product:**



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Harmful

Dangerous for the environment

- **Risk phrases:**

Irritating to skin.

May cause sensitisation by skin contact.

Possible risk of irreversible effects.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**

Wear suitable protective clothing and gloves.

Use appropriate container to avoid environmental contamination.

This material and its container must be disposed of as hazardous waste.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = 1

Fire = 1

Reactivity = 0

- **Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

3 Composition/information on ingredients

- **Chemical characterization: Substances**

- **CAS No. Description**

2210-79-9 2,3-epoxypropyl o-tolyl ether

- **Identification number(s)**

· **EC number:** 218-645-3

· **Additional information:** 100 %

4 First-aid measures

- **Description of first aid measures**

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** Do not induce vomiting; immediately call for medical help.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:**
Wear fully protective suit.
Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow to penetrate the ground/soil.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Protect from heat.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Provide ventilation for receptacles.
Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Protect from heat and direct sunlight.
Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Avoid contact with the skin.
 Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves**
 The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
 The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:**
 Boots
 Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

| | |
|---------------|-----------|
| Form: | Liquid |
| Color: | Colorless |
| Odor: | Mild |

· Change in condition

| | |
|-------------------------------------|-------------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | >200 °C (>392 °F) |

· **Flash point:** 120 °C (248 °F)

· **Ignition temperature:** 435 °C (815 °F)

· **Danger of explosion:** Not applicable.

· Explosion limits:

| | |
|---------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

· **Vapor pressure at 20 °C (68 °F):** ≤ 2 hPa (≤ 2 mm Hg)

· **Density at 25 °C (77 °F):** 1.094 g/cm³ (9.129 lbs/gal)

· Solubility in / Miscibility with

Water: Insoluble.

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· **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions**
Reacts with acids, alkalis and oxidizing agents.
Reacts with amines.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

| | | |
|---|------|-----------------------|
| · LD/LC50 values that are relevant for classification: | | |
| 2210-79-9 2,3-epoxypropyl o-tolyl ether | | |
| Oral | LD50 | > 5000 mg/kg (rat) |
| Dermal | LD50 | > 2000 mg/kg (rabbit) |

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

- **Carcinogenic categories**

| |
|---|
| · IARC (International Agency for Research on Cancer) |
| Substance is not listed. |

| |
|--|
| · NTP (National Toxicology Program) |
| Substance is not listed. |

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Not easily biodegradable
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment** Not applicable.
- **Other adverse effects** No further relevant information available.

USA

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|--|--|
| · UN-Number | |
| · DOT | Void |
| · ADR, IMDG, IATA | UN3082 |
| · UN proper shipping name | |
| · DOT | Void |
| · ADR | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,3-epoxypropyl o-tolyl ether) |
| · IMDG | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,3-epoxypropyl o-tolyl ether) |
| · IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,3-epoxypropyl o-tolyl ether) |
| · Transport hazard class(es) | |
| · DOT | |
| · Class | Void |
| · ADR, IMDG, IATA | |
| · Class | 9 Miscellaneous dangerous substances and articles |
| · Label | 9 |
| · Packing group | |
| · DOT | Void |
| · ADR, IMDG, IATA | III |
| · Environmental hazards: | |
| · Marine pollutant: | Yes |
| · Special precautions for user | Warning: Miscellaneous dangerous substances and articles |
| · Danger code (Kemler): | 90 |
| · EMS Number: | F-A,S-F |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

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· TSCA (Toxic Substances Control Act):

Substance is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:


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Harmful

Dangerous for the environment

· Risk phrases:

Irritating to skin.

May cause sensitisation by skin contact.

Possible risk of irreversible effects.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

Wear suitable protective clothing and gloves.

Use appropriate container to avoid environmental contamination.

This material and its container must be disposed of as hazardous waste.

· Chemical safety assessment: A Chemical Safety Assessment has been carried out.

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.

· Contact: www.everchem.com
· Abbreviations and acronyms:

RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent