

1. Chemical Product and Company Identifier

Product Name: Glycofect™ Transfection Reagent

Date: 12/2009

Company Identification

Techulon Inc.
2200 Kraft Dr.
Suite #2475
Blacksburg, VA 24060

Contact Telephone

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For questions about this sheet and general information

2. Composition/Information Regarding Ingredients

Component

Proprietary blend of *poly*(glycoamidoamine) polymers (HCl salts); 100% by weight*

*The specific blend of polymers is being withheld because it is a trade secret of Techulon Inc. This information will be disclosed at the appropriate time on a confidential basis to regulatory authorities and health care professionals.

3. Hazards Identification

Emergency Overview

Appearance: Fluffy, lyophilized white to off-white solid.

Potential Health Effects

Likely routes of exposure: Skin contact, eye contact

SKIN CONTACT: Effects of skin contact are unknown. Material may pass through skin and therefore should be handled by fully protected individuals (gloves, lab coat, goggles) with the appropriate scientific credentials.

EYE CONTACT: Glycofect™ transfection reagent has shown transgene expression in mice retina and therefore eye contact should be treated immediately by flushing eyes with water while the appropriate safety procedures are followed (Call poison control)

OTHER INGESTION ROUTES: There is no data at this time, but as with any agent with unknown toxicology profiles, this agent should be treated as a hazardous material.

4. First Aid Measures

SKIN CONTACT: Thoroughly wash affected area with soap and water.

EYE CONTACT: Flush eyes with water for at least 15 min and contact poison control.

ALL OTHER INGESTION ROUTES: Contact poison control.

5. Fire Fighting Measures

FLASH POINT: Not combustible

UNUSUAL FIRE OR EXPLOSION HAZARDS: None

6. Accidental Release Measures

Spilled product can be mopped or wiped up with water. Product will be fully degraded after several days in solution.

7. Handling and Storage

Use good scientific practices while handling (wear gloves, goggles, and a lab coat). Product should be stored dehydrated at -20°C. Extra dissolved product should be discarded after use.

8. Exposure Controls, Personal Protection

OSHA Vacated PELs: None listed

ENGINEERING CONTROLS: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

EXPOSURE LIMITS: Unknown

PERSONAL PROTECTIVE EQUIPMENT:

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulation in 29 CFR 1910.133 or EU's standard EN166.

Skin: Wear appropriate gloves and clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or the EU's standard EN 149 must be followed whenever workplace conditions warrant respirator use.

9. Physical and Chemical Properties

Physical State: Solid

Color: White

Odor: None

pH in Solution: Neutral

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: N/A

Viscosity: N/A at room temperature

Decomposition Point: 147°C

Solubility in Water: Very soluble

10. Stability and Reactivity

CHEMICAL STABILITY: Stable at normal temperatures and pressures in dessicator. Recommended storage is as solid at -20°C.

CONDITIONS TO AVOID: Incompatible chemicals, excess heat, humidity, reagents other than nucleic acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Typical oxidation products such as carbon monoxide; also pentaethylenehexamine.

11. Toxicological Information

LD50/LC50: Not available

CARCINOGENICITY: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA prop 65.

No information is available regarding the epidemiology, teratogenicity, neurotoxicity, mutagenicity, or reproductive harm associated with this material.

12. Ecological Information

None available for this product

13. Disposal Considerations

Chemical waste generators must determine whether a discarded material is considered hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

USDOT: Not regulated as a hazardous material

UN Number: Not regulated

CANADA TDG: Not regulated

15. Regulatory Information

This material is currently not regulated by any regulatory agencies or mandates including: TSCA, CERCLA, SARA, US clean air act, US clean water act, OSHA, CA prop 65, EU EC directives, Canada's WHMIS, and others.

16. Other Information

MSDS Creation Date: 12/14/2009

Last Revision (#1): 12/14/2009

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