

7769 95th Street South Cottage Grove, MN 55016

### **SAFETY DATA SHEET**

Revision Date: 6/3/2015

Emergency Phone: 1-800-535-5053 (Infotrac)

#### **Section 1: Identification**

**Product Name:** Restorz **Code:** 98PRE00

Chemical Type: Liquid Manufacturer/Supplier:

Innovative Chemical Corporation

7769 95th Street South Cottage Grove, MN 55016

651-649-1762

### Section 2: Hazard(s) Identification

### **OSHA/HCS** status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture: Not classified

#### **Label elements**

Signal word: Warning

Hazard statements: Irritant (skin and eye).



### **Precautionary Statements**

Prevention: Not applicable.
Response: Not applicable.
Storage: Not applicable.
Disposal: Not applicable.

Hazards not otherwise classified: None known.

## **Section 3: Composition/Information on Ingredients**

Substance or mixture: Mixture

Other means of identification: Not available.

#### **Hazardous Components**

		CAS
Chemical Name	%weight	number
ethanediol	≥5-6	107-21-1
Alcohols, C9-11, ethoxylated	1-<3	68439-46-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational limits, if available are listed in Section 8.

	Section 4: First-Aid Measures
Description	of first aid measures
Eyes	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.
	Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical
	attention if symptoms occur.
Skin	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get
	medical attention if symptoms occur.
Ingestion	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position
	comfortable for breathing. If material has been swallowed and the exposed person is
	conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do
	so by medical personnel. Get medical attention if symptoms occur.

## Indication of any immediate medical attention needed

Notes to Physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities
	have been ingested or inhaled.
Specific treatment	No specific treatment.
Protection of	No action shall be taken involving any personal risk or without suitable training.
first-aiders	

See toxicological information (Section 11)

Section 5: Fire-Fighting Measures		
Extinguishing media		
Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	None known.	
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container	
	may burst.	
Hazardous thermal decomposition	Decomposition products may include the following materials: carbon	
products	dioxide, carbon monoxide.	
Protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of	
	the incident if there is a fire. No action shall be taken involving any	
	personal risk or without suitable training.	
Protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self	
	contained breathing apparatus (SCBA) with a full face piece operated in	

positive pressure mode.

## **Section 6: Accidental Release Measures**

## Personal precautions, protective equipment and emergency procedures

For non-emergency	No action shall be taken involving any personal risk or without suitable training.	
personnel	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from	
	entering. Do not touch or walk through spilled material. Put on appropriate personal	
	protective equipment.	
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any	
	information in Section 8 on suitable and unsuitable materials. See also the	
	information in "For non- emergency personnel".	
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways,	
	drains and sewers. Inform the relevant authorities if the product has caused	
	environmental pollution (sewers, waterways, soil or air).	

## Methods and material for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry
	material and place in an appropriate waste disposal container. Dispose of via a
	licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release upwind
	Prevent entry into sewers, water courses, basements or confined areas. Wash
	spillages into an effluent treatment plant or proceed as follows. Contain and
	collect spillage with non-combustible, absorbent material e.g. sand, earth,
	vermiculite or diatomaceous earth and place in container for disposal according to
	local regulations (see Section 13). Dispose of via a licensed waste disposal
	contractor. Note: see Section 1 for emergency contact information and section 13
	for waste disposal.

## **Section 7: Handling and Storage**

# Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8).	
Advice on general	Eating, drinking and smoking should be prohibited in areas where this material is	
occupational hygiene	handled, stores and processed. Workers should wash hands and face before eating,	
	drinking and smoking. Remove contaminated clothing and protective equipment	
	before entering eating areas. See also section 8 for additional information on	
	hygiene measures.	
Conditions for safe storage	Store in accordance with local regulations. Store in original container protected	
including any	from direct sunlight in a dry, cool and well-ventilated area, away from incompatible	
incompatibilities	materials (see section 10) and food and drink. Keep container tightly closed and	
	sealed until ready for use. Containers that have been opened must be carefully	
	resealed and kept to prevent leakage. Do not store in unlabeled containers. Use	
	appropriate containment to avoid environmental contamination.	

## **Section 8: Exposure Controls/Personal Protection**

## **Control parameters**

Occupational exposure limits	ethanediol OSHA PEL 1989 (United States, 3/1989).	
		CEIL: 50 ppm
		CEIL: 125 mg/m₃
		ACGIH TLV (United States, 4/2014).
		C: 100 mg/m₃ Form: Aerosol
Appropriate	Good general ventilation should be sufficient to control worker exposure to airborne	
engineering controls	contaminates.	
Environmental	Emissions from ventilation or work process equipment should be checked to ensure	
exposure controls	they comply with the requirements of environmental protection legislation. In some	
	cases, fume scrubbers, filters or engineering modifications to the process equipment	
	will be necessary to reduce emissions to acceptable levels.	

## **Individual protection measures**

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before
	eating, smoking and using the lavatory and at the end of the working period.
	Appropriate technique should be used to remove potentially contaminated clothing.
	Wash contaminated clothing before reusing. Ensure that eyewash stations and safety
	showers are close to the workstation.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved
	standard if a risk assessment indicates this is necessary. Respirator selection must be
	based on known or anticipated exposure levels, the hazards of the product and the
	safe working limits of the selected respirator.
Eyes/Face	Safety eyewear complying with an approved standard should be used when a risk
	assessment indicates this is necessary to avoid exposure to liquid splashes, mists,
	gases or dusts. If contact is possible, the following protection should be worn, unless
	the assessment indicates a higher degree of protection: safety glasses with side
	shields.
Hands	Chemical-resistant, impervious gloves complying with an approved standard should
	be worn at all times when handling chemical products if a risk assessment indicates
	this is necessary.
Skin/Body	Personal protective equipment for the body should be selected based on the task
	being performed and the risks involved and should be approved by a specialist
	before handling this product. Appropriate footwear and any additional skin
	protection measures should be selected based on the task being performed and the
	risks involved and should be approved by a specialist before handling this product.

# **Section 9: Physical and Chemical Properties**

Physical state Liquid
Color Beige
Odor None Added

Odor threshold Not available

**H** 8

Melting PointNot availableBoiling PointNot available

**Flash Point** Closed cup: >120°C(>248°F)[Product does not sustain combustion.]

**Evaporation rate** Not available

Flammability (solid, gas) Not available

Lower and upper explosive (flammable) limits Not available

Vapor pressure Not available Vapor density Not available Relative density 1.013

**Solubility** Easily soluble in cold water. Partially soluble in hot water.

Partition coefficient: n-octanol/water Not available

Auto-ignition temperatureNot availableDecomposition temperatureNot availableViscosityNot available

#### **Section 10: Stability and Reactivity**

**Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: Stable

Possibility of hazardous reactions: Under normal conditions, hazardous reactions will not occur.

**Conditions to avoid:** No specific data **Incompatible materials:** No specific data.

Hazardous decomposition products: Under normal conditions, hazardous decomposition products should not be

produced.

### **Section 11: Toxicological Information**

#### Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
ethanediol	LD50 Oral	Rat	4700 mg/kg	-
Alcohols, C9-11, ethoxylated	LD50 Derm	Rabbit	2 g/kg	-
	LD50 Oral	Rat	1378 mg/kg	-

## Irritation/Corrosion

<u>·</u>					
Ingredient name	Result	Species	Score	Exposure	Observation
ethanediol	Eyes- mild irritant	Rabbit	-	24 hrs 500 mg	-
	Eyes- mild irritant	Rabbit	-	1 hr 100 mg	-
	Eyes- moderate irritant	Rabbit	-	6 hrs 1440 mg	-
	Skin- mild irritant	Rabbit	_	555 mg	-

#### Sensitization

Not available

## Mutagenicity

Not available

## Carcinogenicity

Not available

## Reproductive toxicity

Not available

### **Teratogenicity**

Not available

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Not available

#### Information on the likely routes of exposure

Routes of entry anticipated: Oral, Dermal. Routes of entry not anticipated: Inhalation.

#### Potential acute health effects

Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	No specific data.
Inhalation	No specific data.
Skin contact	No specific data.
Ingestion	No specific data.

## Delayed and immediate effects and chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available. Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available. Potential delayed effects: Not available.

#### Potential chronic health effects

Not available

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards. **Mutagencity:** No known significant effects or critical hazards. **Teratogenicity:** No known significant effects or critical hazards.

**Developmental effects:** No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Route	ATE value
Oral	3807.5 mg/kg

## **Section 12: Ecological information**

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
ethanediol	Acute LC50 6900000 μg/l Fresh water	Crustaceans - Ceriodaphnia dubia -	48 hrs
		Neonate	
	Acute LC50 41000000μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hrs
	Acute LC50 8050000 μg/l Fresh water	Fish - Pimephales promelas	96 hrs
	Chronic NOEC 11610000 µg/l Fresh	Daphnia - Ceriodaphnia dubia	48 hrs
	Water		
	Chronic NOEC 6090000 µg/I Fresh	Fish - Pimephales promelas	96 hrs
	Water		
Alcohols, C9-11, ethoxylated	Acute EC50 5.36 mg/l Fresh Water	Crustaceans - Ceriodaphnia dubia -	48 hrs
		Neonate	
	Acute EC50 2686 μg/l Fresh Water	Daphnia - Daphnia magna - Neonate	48 hrs
	Acute LC50 8500 μg/l Fresh Water	Fish - Pimephales promelas	96 hrs

## Persistence and degradability

Not available.

## **Bioaccumulative potential**

	LogP		
Product/ingredient name	LogPow	BCF	Potential
ethanediol	-1.36	-	low
Alcohols, C9-11, ethoxylated	-	237	low

### Mobility in soil

Soil/water partition coefficient (Koc): Not available

Other adverse effects: No known significant effects or critical hazards.

### **Section 13: Disposal considerations**

#### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products

via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **Section 14: Transport information**

	UN				Environmenta	
Regulatory info	number	Proper shipping name	Classes	PG	l hazards	Additional info
DOT Classification	Not	-	-	-	No	-
	regulated					
TDG Classification	Not	-	-	-	No	-
	regulated					
Mexico	Not	-	-	-	No	-
Classification	regulated					
ADR/RID Class	Not	-	-	-	No	-
	regulated					
IMDG Class	Not	-	-	-	No	-
	regulated					
IATA-DGR Class	Not	-	-	-	No	-
	regulated					

Special precautions for user: Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code:

Not available

### **Section 15: Regulatory information**

TSCA 8(a) CDR Exempt/Partial exemption: Not determined **U.S. Federal regulations** 

Clean Air Act Section 112(b) **Hazardous Air Pollutants** (HAPs)

Listed

Clean Air Act Section 602

Not Listed

Class I Substances

Not Listed

Clean Air Act Section 602

**Class II Substances** 

**DEA List I Chemicals** 

Not Listed

(Precursor Chemicals)

DEA List II Chemicals

Not Listed

(Essential Chemicals)

SARA 302/304

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ Not applicable

SARA 311/312

**Classification** Not applicable

**Composition/information on ingredients** 

Name	%	Fire Hazard	Sudden release of pressure		Immediate (acute) health	Delayed (chronic) health hazard
ethanediol	≥5-<6	no	no	no	yes	no
Alcohols, C9-11, ethoxylated	≥1-<3	no	no	no	yes	no

#### **SARA 313**

<del></del>					
Product name		CAS number	%		
Form R - Reporting	ethanediol	107-21-1	≥5-<6		
requirements					
Supplier notification	ethanediol	107-21-1	≥5-<6		

SARA 313 notifications must not be detached from the SDS and any copying and redistribution and the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

**Massachusetts:** The following components are listed: Ethylene Glycol **New York:** The following components are listed: Ethylene Glycol

New Jersey: The following components are listed: Ethylene Glycol; 1,2-Ethanediol; Propylene Glycol;

1,2-Propanediol

**Pennsylvania:** The following components are listed: 1,2-Ethanediol; 1,2-Propanediol

## International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not Listed

Montreal Protocol (Annexes A, B, C, E)

Not listed

**Stockholm Convention on Persistent Organic Pollutants** 

Not listed

#### **Rotterdam Convention on Prior Inform Consent (PIC)**

Not listed

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed

International lists: Australia inventory (AICS): Not determined.

Canada: Not determined.

China inventory (IECSC): Not determined.

**Europe:** Not determined.

Japan inventory: Not determined.

Malaysia: Not determined.

**Korea inventory:** Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): Not determined.

**Taiwan:** Not determined.

#### **Section 16: Other information**

**Hazardous Material** 

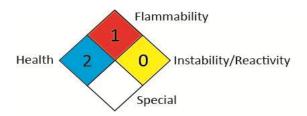
Information System (U.S.A.):



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association:



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be

interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification	Justification		
Not classified.			

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist