

# **1 – PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME:	. TRIETHYLENE GLYCOL
CHEMICAL NAME/	
CLASS/SYNONYMS:	. Antifreeze, Heat Exchange Fluid
PRODUCT NUMBER:	. TRIETHYLENE GLYCOL
UN/NA NUMBER:	. None
CHEMICAL FAMILY:	. Glycol
CAS NUMBER:	. 112-27-6
FORMULA:	• C <sub>6</sub> H <sub>14</sub> O <sub>4</sub>
COMPANY:	. JMN Specialties, Inc.
COMPANY:	<b>. JMN Specialties, Inc.</b> 1100 Victory Drive – Westwego, Louisiana USA 70094
COMPANY:	
COMPANY:	1100 Victory Drive – Westwego, Louisiana USA 70094
	1100 Victory Drive – Westwego, Louisiana USA 70094 Phone (504) 341-3749, Fax (504) 341-5868
	1100 Victory Drive – Westwego, Louisiana USA 70094 Phone (504) 341-3749, Fax (504) 341-5868 www.jmnspecialties.com
	<ul> <li>1100 Victory Drive – Westwego, Louisiana USA 70094</li> <li>Phone (504) 341-3749, Fax (504) 341-5868</li> <li>www.jmnspecialties.com</li> <li>CALL CHEMTEL: Toll Free US &amp; Canada: (800) 255-3924, Outside USA +01-813-248-0585.</li> </ul>

# 2 – HAZARDS IDENTIFICATION

## **GHS HAZARD CLASSIFICATION:**

# WARNING LABEL ITEMS INCLUDING PRECAUTIONARY STATEMENTS:





SIGNAL WORD:..... WARNING!

## GHS HAZARD AND PRECAUTIONARY STATEMENTS:

H303 H313 H333: May be harmful if swallowed, in contact with skin or if inhaled

P101+102+103: If medical advice is needed, have product container or label at hand. Keep out of the reach of children. Read label before use.

P202+270+280+281: Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.



P501: Dispose of contents/container: Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## **TOTAL VOC's:**.....100%

# **3 – COMPOSITION / INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENT

Triethylene Glycol

**PERCENT** 100

CAS NUMBER 112-27-6

# 4 – FIRST-AID MEASURES

	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial resuscitation. Keep person warm and at rest. Treat symptomatically and supportively. Seek medical attention immediately. Qualified medical personnel should consider administering oxygen. Give large amounts of fresh water or milk immediately. Do not give anything by mouth if person is unconscious or otherwise unable to swallow. If vomiting occurs, keep head below hips to prevent aspiration. Treat symptomatically and supportively. Seek medical attention immediately.
EYES:	Flush eye with copious quantities of water. If persistent irritation occurs, obtain medical attention.
	<ul> <li>Remove contaminated clothing and wash affected skin with soap and water. If persistent irritation occurs, obtain medical attention. When using high pressure equipment, injection of product under the skin can occur. If high pressure injuries occur, the casualty should be sent immediately to a hospital. Do not wait for symptoms to develop.</li> <li>All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.</li> </ul>

# **5 – FIRE-FIGHTING MEASURES**



EXTINGUISHING MEDIA:	Determined by surrounding material. In case of fire, use water fog, dry chemical, CO <sub>2</sub> , or "alcohol" foam. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
SPECIAL FIRE FIGHTING UNUSUAL FIRE AND EXPLOSION HAZARDS:	Containers may explode from internal pressure if confined to fire. Cool with water spray.

# 6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:	. Slippery when spilt. Begin clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.
WASTE DISPOSAL:	. Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
RCRA STATUS:	If discarded in its purchased form, it is not a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

# 7 – HANDLING and STORAGE

STORAGE:	Keep in a tightly closed container, stored in a cool, dry, ventilated area below 44°C (110°F). Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe
	all warnings and precautions listed for the product. Drum must not be washed out or used for other purposes.
HANDLING:	Avoid contact with eyes, skin and clothing. Do not inhale vapors and fumes. Wash thoroughly after handling. Use only with adequate ventilation. Do not take internally. For industrial use only.



# 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

OCCUPATIONAL EXPOSURI	E LIMITS		
HAZARDOUS INGR	EDIENT	PEL	TLV-TWA
Triethylene Glye	col	None Established	None Established
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EXPOSURE CONTROLS:	used. Ventilatio use process encl controls to main limits. If exposu levels to an acce	entilation (typically 10 air ch n rates should be matched to losures, local exhaust ventila ntain airborne levels below re ure limits have not been estal eptable level. Please refer to lation, A Manual of Recommon for details	o conditions. If applicable, ation, or other engineering ecommended exposure blished, maintain airborne the ACGIH document,
<b>RESPIRATORY PROTECTIO</b>	· · · · · · · · · · · · · · · · · · ·		oorne concentrations below
	recommended e level (in countri approved respir respirators are u compliance with Respirator type: government app	xposure limits (where applic es where exposure limits has ator must be worn. In the Ur used, a program should be in n OSHA Standard 63 FR 111 Air-purifying respirator wit proved (where applicable), air tact health and safety profes	cable) or to an acceptable ve not been established), an nited States of America, if stituted to assure 52, January 8, 1998. h an appropriate, ir-purifying filter, cartridge
PROTECTIVE CLOTHING:	Eye/face protection is possible). Sk Gloves should b	ction: Wear chemical goggle in protection: Chemical response tested to determine suitable ous apron or chemical suit ar	sistant, impermeable gloves. ility for prolonged contact.
ADDITIONAL MEASURES:	Wash thoroughl	dance with good industrial h y with soap and water after ng tobacco. Safety shower an to work areas.	handling and before eating,

# 9 - PHYSICAL / CHEMICAL PROPERITES



 pH:
 NA

 SOLUBILITY IN WATER:
 Complete

 VOLATILITY
 NA

 INCLUDING WATER:
 9.34 pounds per gallon

 MOLECULAR WEIGHT:
 150.18 g/mole

 EVAPORATION RATE:
 < 1</td>

 PHYSICAL STATE:
 Liquid

 COLOR:
 Clear

 ODOR:
 Bland

# 10 – STABILITY and REACTIVITY

 STABILITY:
 Stable

 HAZARDOUS DECOMP.:
 Will not occur

 INCOMPATIBILITY:
 Oxidizers or Oxidizing Materials.

 HAZARDOUS REACTIONS:
 Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS Definition(s).

# 11 – TOXICOLOGICAL INFORMATION

**IARC**: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **ACGIH**: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. **NTP**: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. **OSHA**: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen by OSHA.

## THRESHOLD LIMIT VALUE ... None Established for this Product

OSHA PEL:	
LISTED CARCINOGEN: This product IS NOT listed in the National Toxicology Program (N	NTP)
Report on Carcinogens (latest edition) or has been found to be a	
potential carcinogen in the International Agency for Research on	
Cancer (IARC) Monographs (latest editions) or found to be a poten	ntial
carcinogen by OSHA.	
MEDICAL CONDITION	
AGGRAVATED: Existing dermatitis.	

# INFORMATION ON ACUTE TOXICOLOGICAL EFFECTS

## ORAL

## DERMAL

Product:...... Skin contact may aggravate existing dermatitis.

## INHALATION

## **REPEATED DOSE TOXICITY**

Product: ...... No Data Available



#### SKIN CORROSION / IRRITATION

SERIOUS EYE DAMAGE / IRRITATION

Product:...... May cause mild to severe eye irritation

## **RESPIRATORY OR SKIN SENSITIZATION**

Product: ..... No Data Available

### MUTAGENCITY

#### **IN VITRO**

Product: No Data A	Available
IN VIVO	
Product: No Data A	Available
Specified Substance(s)	Information as provided by manufacturer
Triethylene Glycol	No Data Available

## CARCINOGENICITY

### **REPODUCTIVE TOXICITY**

### SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

**Product: GENERAL:** Liquid or vapors may be irritating to skin and eyes. **INHALATION:** High concentrations of vapor may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, possibly with chest pain and coughing. Headache, nausea, vomiting, dizziness, and drowsiness may occur. **EYES:** May cause mild to severe irritation experienced as discomfort or pain, excess blinking and tear production, possibly with marked redness and swelling of the conjunctiva. **SKIN:** Brief contact may cause slight irritation with itching and local redness. Prolonged contact, especially with concentrate, may cause more severe irritation, with discomfort or pain. **SWALLOWING:** May cause headache, dizziness, in-coordination, nausea, vomiting, diarrhea, and general weakness.

# SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE

## **ASPIRATION HAZARD**

## **OTHER ADVERSE EFFECTS**



12 – ECOLOGICAL INFORMATION

### ACUTE TOXICITY

#### FISH

**Product:**.....LC50 - Leuciscus idus (Golden orfe) - > 100 mg/l - 96 h AQUATIC INVERTEBRATES

Product: EC50 - Daphnia magna (Water flea) - 46,500 mg/l - 48 h

#### CHRONIC TOXICITY

FISH

**Product:**......NOEC/NOEL > 100 mg/l. (based on similar products / components) **TOXICITY TO AQUATIC PLANTS** 

#### PERSISTENCE AND DEGRADABILITY

#### **BIODEGRADATION**

**Product:**......Biodegradability under aerobic static laboratory conditions is high. **BIOLOGICAL OXYGEN DEMAND** 

Product: ..... No data available

CHEMICAL OXYGEN DEMAND

Product: ...... No data available

#### **BOD / COD RATIO**

Product: ..... No data available

## **BIOACCUMULATIVE POTENTIAL**

Product: ...... Potential to bioaccumate is low.

### MOBILITY IN SOIL

**Product:**..... Expected to partition to water.

#### **RESULTS OF PBT AND mPvB ASSESSMENT**

**Product:**......Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria. Not fulfilling vPvB (very persistent, very bioaccumulative) criteria.

### **OTHER ADVERSE EFFECTS**

**Product:** ...... No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

### **13 – DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL: ...... Treatment, storage, transportation and disposal must be in accordance with Federal, State/Provincial and Local Regulations. Regulations may vary in different locations. Characterization and compliance with applicable laws are the responsibility solely of the generator. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.



**RCRA STATUS:** 

# Safety Data Sheet (TRIETHYLENE GLYCOL)

If discarded in its purchased form, it is not a RCRA hazardous waste. It is the responsibility of the product user to determine at the time of disposal, whether a material containing the product should be classified as a hazardous waste. (40CFR261.20-24).

# 14 – TRANSPORTATION INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

UN/NA NUMBER:	. None
PROPER SHIPPING NAME:	Non-Regulated
HAZARD CLASS:	None
PACKAGING GROUP :	. None
LETTER:	. None
<b>ENVIRONMENTAL HAZARD:</b>	Because of modern treatment methods or method of use of this product,
	only an insignificant amount of the ingredients reaches the environment.
	That amount is at such levels as to typically not cause any adverse
	effects.
<b>REPORTABLE QUANTITY:</b>	. None

# 15 - REGULATIONS

This Safety Data Sheet conforms to ANSI Z400.5, and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD). **IMPORTANT:** Read this SDS before handling & disposing of this product. Pass this information on to employees, customers, & users of this product.

EPA SRA Title III Chemical Listings:

TSCA STATUS:	• This product is listed on the TSCA inventory. If this product is a blend, all ingredients in the product are listed on the TSCA Inventory List. Any impurities present in this product are exempt from listing.
SECTION 302:	. None
SECTION 304:	. None
SECTION 312:	. None
SARA SECTION 313:	. None
ACUTE:	. Yes (Eyes)
CHRONIC:	. No
FIRE:	
PRESSURE:	<b>.</b> No
REACTIVE:	. No
CLEAN WATER ACT:	. None
IMDG – International Marine D	angerous Goods Code
Class Non Regulated - Possible Sh	ipping Description(s): Non Regulated
IATA	
Class Non Regulated - Possible Sh	ipping Description(s): Non Regulated
DEA Chemical Trafficking Act:.	. No



# **16 – OTHER INFORMATION**

1

HMIS*		

FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	J

**\*HMIS®HAZARD INDEX: 0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Serious Hazard, 4=Severe Hazard.** HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS and product label must be considered.

ND = No Data, NA = Not Applicable/Not Available,  $\leq$  = Less than or equal to,  $\geq$  = Greater than or equal to

**REVISION STATEMENT:** Changes have been made throughout this Safety Data Sheet (SDS). Please read the entire document. Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) by the Company Health and Risk Assessment Unit.

## **DISCLAIMER:**

HEALTH

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, the Company makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving this Safety Data Sheet (SDS) will make their own determination as to its suitability for their intended purposes prior to use. Since the product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal and State Regulations concerning the Product. It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. NO REPRESENTATIONS OR WARRANTIES, EITHER **EXPRESS** OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH **INFORMATION REFERS.** 

\*\*\*This is the last page of this SDS\*\*\*