

# MATERIAL SAFETY DATA SHEET

## 1. Identification of the Substance and Company Undertaking

**Product Name : Trioxi Pure Vegetable Glycerin – 1 Gallon**

Substance Name : Glycerin

CAS No. : 200-289-5

EC No. : 56-81-5

Origin : Palm oil

### Product Uses

Industrial & Consumer Users: Formulations for snack foods, polymers, surfactants, cosmetics, pharmaceuticals

## 2. Hazard Identification

### Classification of Substance

Most important adverse physicochemical, human health and environmental effects: Substance is not classified as hazardous

### Label Element

Label elements : Not relevant, substance is not classified as hazardous.

### Other Hazards

Other hazards : Thermal burns are possible on contact with material at elevated temperatures.

## 3. Composition

Glycerol : > 99%

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## 4. First Aid Measures

### First Aid Measures

- Eyes : Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes
- Skin : Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin.
- Inhalation : Remove casualty from exposure ensuring one's own safety whilst doing so; seek medical attention if symptoms persist.
- Ingestion : Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. If gastro-intestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person)

## 5. Fire Fighting Measures

### Extinguishing Media

Appropriate extinguishing media: Dry chemical powder, alcohol resistant foam, halon (may not be permissible in some countries), CO<sub>2</sub>, water spray (fog).

Unsuitable extinguishing media : Water stream may splash the burning liquid and spread fire

### Special Hazards

Combustion emits toxic fumes of carbon dioxide / carbon monoxide.  
Oil soaked rags or spill absorbents (i.e. oil dry, polypropylene socks, sand, etc.) can cause spontaneous combustion if stored near combustibles and not handled properly.

### Advice for Firefighters

Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor. Wear protective clothing to prevent contact with skin and eyes.

## 6. Accidental Release Measure

### Personal precautions, protective equipment and emergency procedures.

Eliminate all sources of ignition. If outside, do not approach from downwind. If outside, keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and

prevent access to unauthorized personnel. Turn leaking containers leak side up to prevent the escape of liquid.

#### Advice for Firefighters

Firefighters should use self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### Environmental Precautions

Do not discharge into drains or rivers.

#### Spill Cleanup Procedures

Spill containment : Contain any spillage using bunding.

Spill clean-up : Pick up small spills with absorbent materials and dispose of properly to avoid spontaneous combustion.

## **7. Handling and Storage**

#### Recommendations for Safe Handling

Avoid excessive heating and as with any hot liquid, wear gloves and face shield when handling hot oil.

#### Occupational Hygiene Advice

Do not eat, drink or smoke in work areas; wash hands after use; and remove contaminated clothing and protective equipment before entering eating areas.

#### Safe Storage Conditions

Store in cool, well-ventilated area. Keep away from sources of ignition. Keep container tightly closed. Below normal ambient temperatures material will start to solidify. Protect from frost. Store at +25°C to +55°C. Keep away from oxidizing agents, excessive heat, exposure to uv light and ignition sources.

## **8. Exposure Control and Personal Protection**

### Control Parameters

Control parameters : No relevant control limits

Recommended monitoring procedures: No recommended monitoring procedures.

Applicable occupational exposure limit

values and/or biological limit values for

any air contaminants formed. : No applicable occupational exposure limit values and/or biological limit values.

### Exposure Controls

Appropriate engineering controls : No relevant engineering controls

Individual protection measures

Respiratory Protection : If vapours or mists are generated, wear a NIOSH approved organic vapour/mist respirator.

Protective Clothing : Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing. PVC coated gloves recommended to prevent skin contact.

Other Protective Measures : Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

Environmental exposure controls : No relevant environmental exposure controls

## **9. Physical and Chemical Properties**

### Overview of physicochemical properties

Appearance : Colorless liquid

Odor : Odorless

Odor threshold : Not available

pH : 6 - 8

Melting point/freezing point : 18°C

Boiling point : 290°C

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Flash point	: 160°C
Evaporation rate	: Not available
Flammability	: Not flammable
UEL or LEL	: < 0.9%
Vapor pressure	: Not applicable
Vapor density	: Not available
Relative density	: 1.260 at 20°C
Solubility in water	: Soluble
Auto-ignition temperature	: 370°C
Decomposition temperature	: Not available
Viscosity	: 1400 mPas at 20°C
Explosive properties	: Not explosive, the study does not need to be conducted since there are no chemical groups associated with explosive proprieties present in the molecule.
Oxidizing properties	: Not oxidizing, the study does not need to be conducted since the substance is incapable of reacting exothermically with combustible materials based on the chemical structure

## 10. Stability and Reactivity

Reactivity hazards	: This product is stable and hazardous reaction will not occur.
Chemical stability	: Substance is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure
Possibility of hazardous reactions	: This product is stable and hazardous reaction will not occur.
Conditions to avoid	: See incompatible materials.
Incompatible materials	: Strong oxidizing agents. Strong bases.
Hazardous decomposition products	: Combustion produces carbon monoxide, carbon dioxide along with thick smoke.

## 11. Toxicological Information

Toxicity Data	: No toxicity is known
Carcinogenicity	: No carcinogenicity is known
Reproductive Effect	: No harmful effects expected

Effects of Overexposure : No harmful effects expected  
Chronic Effects : No harmful effects expected  
Target Organs : The skin, especially if the product is hot  
Medical conditions generally aggravated by exposure : No special requirements

## 12. Ecological Information

Mobility : Dissolves on water  
Bioaccumulation : Not expected  
Biodegradability : Biodegradable  
Aquatic Toxicity : Not expected

## 13. Disposal Information

Disposal method in accordance with all applicable national environment laws and regulations

## 14. Transport Information

### Land transport (ADR/RID/)

UN number : Not classified  
Class : Not classified  
Classification code : Not classified  
Packaging group : Not classified  
Labels : Not classified

### Inland waterway transport (AND(R))

UN number : Not classified  
Class : Not classified  
Classification code : Not classified  
Packaging group : Not classified  
Labels : Not classified

### Marine transport (IMDG)

UN number : Not classified  
Proper shipping name and description : Not classified  
Chemical name : Not classified

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Class : Not classified  
Classification code : Not classified  
Packaging group : Not classified  
EMS number : Not classified  
Labels : Not classified  
Marine pollutant : No

Air transport ICAO/IATA

UN number : Not classified  
Proper shipping name and description : Not classified  
Chemical name : Not classified  
Class : Not classified  
Packaging group : Not classified  
Labels : Not classified

**15. Regulatory Information**

Not available.

**16. Other Information**

Not applicable.