

# Titan™

# SAFETY DATA SHEET

Preparation Date: 27-Oct-2020 Revision Date: 04-Nov-2020 Revision Number: 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name Titan™

Other means of identification

Item#: 1159 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Spray Teat Dip
Uses advised against All other

Details of the supplier of the safety data sheet

**Supplier** DeLaval Manufacturing

11100 N. Congress Ave.

Kansas City, MO 64153: 816-891-7700, 8am - 5pm M-F

**Emergency Telephone Number** 

Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

## Classification

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation Category 2

#### **Label Elements**

## **Emergency Overview**

#### WARNING

#### **Hazard Statements**

Causes serious eye irritation



Appearance Green Physical state Liquid Odor No information available

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Glycerol	56-81-5	1 - 10
Lactic acid	79-33-4	1 - 10

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

# 4. FIRST AID MEASURES

## **Description of first-aid measures**

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Get medical attention immediately.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately.

**Inhalation** Move to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Get medical attention immediately.

#### Most important symptoms and effects, both acute and delayed

Serious eye damage/eye irritation.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

# **Suitable Extinguishing Media**

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **Unsuitable Extinguishing Media**

None known.

## Specific hazards arising from the chemical

The product causes irritation of eyes, skin and mucous membranes.

Sensitivity to static discharge None.

## **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health hazards 1 Flammability 0 Instability 0

## 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes. For personal protection see section 8.

# **Environmental Precautions**

Prevent further leakage or spillage if safe to do so. Should not be released into the environment.

#### Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Handling Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children.

Incompatible Materials bases, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol		TWA: 10 mg/m <sup>3</sup>	=
56-81-5		TWA: 5 mg/m <sup>3</sup>	
		TWA: 15 mg/m <sup>3</sup>	

## **Appropriate engineering controls**

Engineering Controls Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

**Eye/face Protection** Safety glasses with side-shields.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical stateLiquidOdorNo information availableAppearanceGreenOdor ThresholdNo information available

Property Values Remarks/ Method

pH 2.9 - 3.3

Melting point/freezing pointNo information availableBoiling Point/RangeNo information availableFlash PointNo information availableEvaporation rateNo information availableFlammability (solid, gas)No information availableFlammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor Pressure

No information available
No information available
No information available

Vapor Density No information available

Specific Gravity 1.033 Water Solubility soluble

Partition coefficient: No information available

n-octanol/water

Autoignition TemperatureNo information availableDecomposition temperatureNo information available

Viscosity of Product 10-20 cP

Dynamic viscosity No information available

**Other information** 

Liquid Density 1.031 g/mL

# 10. STABILITY AND REACTIVITY

#### Reactivity

May react with other chemicals. Do not mix with other chemicals except as directed on label.

#### **Chemical Stability**

stable when stored at temperatures not exceeding 80°F. Long-term storage at higher temps may degrade product over time.

#### Possibility of hazardous reactions

None known.

#### **Conditions to Avoid**

Product may degrade if exposed to long-term high temperature.

#### **Incompatible Materials**

bases, light metals (e.g. aluminum, copper, brass, zinc galvanized), bleach

#### Hazardous decomposition products

None known.

# 11. TOXICOLOGICAL INFORMATION

Principal Routes of Exposure Eye contact, Skin contact, Ingestion

Information on likely routes of exposure

**Eyes** Causes serious eye irritation. **Skin** May cause slight irritation.

**Ingestion** Ingestion may cause irritation to mucous membranes.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irritation Causes serious eye irritation.

Sensitization Product is not identified as a sensitizer according to OSHA regulations.

Mutagenic effects Product is not identified as a mutagen according to OSHA regulations.

Carcinogenicity Product is not identified as a carcinogen according to OSHA regulations.

**Reproductive Effects**Product is not identified as having reproductive effects according to OSHA regulations. **STOT - single exposure**Product is not identified as having single target organ toxicity (single exposure) according to

OSHA regulations.

**STOT - repeated exposure** Product is not identified as having single target organ toxicity (repeated exposure)

according to OSHA regulations.

**Aspiration Hazard** Product is not identified as an aspiration hazard according to OSHA regulations.

**Numerical measures of toxicity** 

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerol	= 12600 mg/kg (Rat)	21900 mg/kg (Rat)	> 570 mg/m³ (Rat) 1 h
56-81-5			
Lactic acid	= 3730 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	No data available
79-33-4			

0% of the mixture consists of ingredient(s) of unknown toxicity

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Glycerol	No data available	51 - 57: 96 h Oncorhynchus	No data available	500: 24 h Daphnia magna
56-81-5		mykiss mL/L LC50 static		mg/L EC50
Lactic acid	3.5: 70 h	100 - 180: 96 h Lepomis	LC50: >88.2 mg/L 3h	240: 48 h Daphnia magna
79-33-4	Pseudokirchneriella	macrochirus mg/L LC50		mg/L EC50 180 - 320: 48 h
	subcapitata mg/L EC50	static 100 - 180: 96 h		Daphnia magna mg/L EC50
		Oncorhynchus mykiss mg/L		Static
		LC50 static 320: 96 h		
		Brachydanio rerio mg/L		
		LC50 semi-static		1

### Persistence and degradability

No information available.

# **Bioaccumulation/Accumulation**

No information available.

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Contact your local waste disposal authority for advice, or pass to a chemical disposal

company.

Contaminated Packaging Triple rinse containers. Avoid contamination of any water supply with product or empty

packaging. Empty containers should be taken for local recycling, recovery or waste

disposal.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

# **15. REGULATORY INFORMATION**

State Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycerol	X	X	X
56-81-5			

#### U.S. EPA Label information

EPA Pesticide registration number Not applicable

# **16. OTHER INFORMATION**

Preparation Date: 27-Oct-2020 Revision Date: 04-Nov-2020 Revision Note: None

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of SDS**