

# SAFETY DATA SHEET

### **TITAN PLUS**

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TITAN PLUS SDS GHS

### **1. IDENTIFICATION**

<u>Product Identifier</u> Product Name Chemical Name	TITAN PLUS Alkali detergent solution
Recommended use of the chemical	and restrictions on use
Recommended use	Liquid detergent – automatic dishwasher, industrial descaling applications
Restrictions on use	For industrial use only
Supplier details	West Penetone Inc.
	11411-160 Street
	Edmonton, AB,
	T5M3T7
	Tel: 780-454-3919

### **Emergency Telephone Number**

Main office - (780)-454-3919, 8:00 AM to 4:30 PM MST

### 2. HAZARDS IDENTIFICATION

### Classification

Corrosive to metals	Category 1	
Skin corrosion/irritation	Category 1	
Serious eye damage/eye irritation	Category 1	
Carcinogenicity	Category 2	

### Label Elements

### DANGER

**Hazard Statements** May be corrosive to metals Causes severe skin burns and eye damage Suspected of causing cancer



### **Precautionary Statements - Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original packaging. Do not breathe dusts or mists. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

<u>Precautionary Statements - Response</u> IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If exposed or concerned: get medical advice/attention.

Absorb spillage to prevent material-damage.

#### **Precautionary Statements - Storage**

Store in corrosion resistant/container with a resistant inner liner. Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

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

Chemical Name	CAS-No	Weight %*
trisodium nitrilotriacetic acid	5064-31-3	10-30
tetrasodium ethylenediaminetetraacetate	64-02-8	7-13
sodium hydroxide	1310-73-2	5-10
alkyl ether hydroxypropyl sultaine	108797-84-8 / 108797-85-9	0.5-1.5

\* The actual concentrations have been withheld as a trade secret

### **4. FIRST AID MEASURES**

Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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

Contact with eyes may cause serious corneal injury or damage leading to irritation, discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva, and possible blindness. Contact with skin may cause burns or irritation with local redness or blistering. See Section 2 for possible delayed effects.

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

Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

None.

#### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed including oxides of carbon, nitrogen, and sulfur and other irritating gases.

#### 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.

### 6. ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment. Use appropriate containment to avoid environmental contamination.

### **Environmental Precautions**

Avoid discharge into drains/surface waters/groundwater.

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

Contain and solidify with inert absorbent materials. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, prevent product from entering drains, and pump off product where this is without risk and possible. Proceed as above.

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### 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Handling

Avoid contact with skin and eyes. Do not handle until all safety precautions or special instructions have been read and understood.

### Conditions for safe storage, including any incompatibilities

 Storage
 Store locked up, in original container, away from incompatible materials.

**Incompatible Materials** 

Strong oxidizing materials, acids, amphoteric or light metals.

## 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
sodium hydroxide 1310-73-2	2 mg/m <sup>3</sup> ceiling	2 mg/m <sup>3</sup> ceiling	10 mg/m <sup>3</sup>

### Appropriate engineering controls

Engineering Controls Under the intended modes of use and application, exposure control measures are not required.

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

Eye/face Protection	Safety glasses with side shields or goggles.
Skin and body protection	Wear protective gloves and protective clothing.
Respiratory Protection	No personal respiratory equipment normally required.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing to remove contaminants.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, tan liquid	VAPOR PRESSURE, mm Hg AT 20°C: Not applicable
ODOR:	VAPOR DENSITY (Air = 1):
Detergent	Not applicable
ODOR THRESHOLD:	RELATIVE DENSITY AT 20°C:
Not applicable	1.245-1.255
pH:	SOLUBILITY IN WATER:
12.5-13.5	Complete
MELTING POINT / FREEZING POINT:	PARTITION COEFFICIENT, N-OCTANOL/WATER:
Approx15°C	Not available
BOILING POINT/BOILING RANGE:	AUTO-IGNITION TEMPERATURE:
Approx. 100°C	None
FLASH POINT:	DECOMPOSITION TEMPERATURE:
None	Not available
EVAPORATION RATE, water = 1:	VISCOSITY:
1	Not available
FLAMMABILITY (SOLID, GAS): Not applicable	FLAMMABLE LIMITS: UPPER: Not applicable LOWER: Not applicable

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### **10. STABILITY AND REACTIVITY**

### **Reactivity**

Not reactive.

### Chemical Stability

Stable under normal conditions.

### Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### **Conditions to Avoid**

Store locked up, in original container, away from incompatible materials.

#### **Incompatible Materials**

Strong oxidizing materials, acids, amphoteric or light metals.

### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decompositions can lead to release of irritating gases and vapors such as oxides of carbon, nitrogen, and sulfur as well as other low molecular weight hydrocarbons.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
trisodium nitrilotriacetic acid 5064-31-3	1740 mg/kg (rat)	Not listed	Not listed
tetrasodium ethylenediaminetetraacetate 64-02-8	>1780-<2000 mg/kg (rat)	Not listed	>1 mg/L (aerosol) (rat) – 6 h
sodium hydroxide 1310-73-2	500 mg/kg (rabbit)	Not listed	Not listed
alkyl ether hydroxypropyl sultaine 108797-84-8 / 108797-85-9	13800 mg/kg (rat)	Not listed	Not listed

### Information on likely sources of exposure

Serious eye damage/irritation	Causes serious eye damage.
Skin corrosion/irritation	May cause burns or irritation with local redness or blistering.
Ingestion	Expected to be a low ingestion hazard.
Inhalation	Expected to be a low inhalation hazard.

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

Respiratory or skin sensitization	Not a sensitizer.	
Germ cell mutagenicity	None known.	
Carcinogenicity	trisodium nitrilotriacetate (CAS 5064-31-3)	2B Possibly carcinogenic to humans
Reproductive toxicity	No information available	
STOT - single exposure	No information available.	
STOT-repeated exposure	No information available.	
Aspiration Hazard	None.	

Symptoms related to the physical, chemical and toxicological characteristics

Eye damage or irritation. Skin burns or irritation. See Section 2 for further characteristics.

### **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

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

Chemical Name	Fish	Waterflea	Algae
trisodium nitrilotriacetic acid	127 mg/L: 96 h pimephales	560-1000 mg/L: 48 h daphnia	>100 mg/L: 72 h desmodesums
5064-31-3	promelas LC50	magna EC50	subspicatus EC50
tetrasodium ethylenediaminetetraacetate	>100 mg/L: 96 h lepomis	>100 mg/L: 48 h daphnia magna	>100 mg/L: 72 h green algae EC50
64-02-8	macrochirus LC50	EC50	
sodium hydroxide 1310-73-2	1149 mg/kg: 96 h rainbow trout LC50	Not available	Not available

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### Persistence and degradability

Not expected to be readily biodegradable

#### Mobility in soil

No information available

### **Bioaccumulative potential**

Accumulation in organisms is not to be expected.

#### Other adverse effects

Do not release untreated into natural waters. No other adverse environmental effects are expected.

### **13. DISPOSAL CONSIDERATIONS**

### Waste Disposal Method

**Contaminated Packaging** 

Dispose of in accordance with local regulations.

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

### **14. TRANSPORT INFORMATION**

UN Number:	3266
UN Proper Shipping Name:	Corrosive Liquid, Basic, Inorganic, N.O.S. (sodium hydroxide solution)
Transport Hazard Class(es)	
Class:	TDG: 8
	US DOT: 8
	IMDG: 8
Label(s):	8
Packing Group:	II
Marine Pollutant:	No

Special precautions for user:

None established

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not determined

### **15. REGULATORY INFORMATION**

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

#### United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

#### HMIS Information:

Health:	3
Flammability:	0
Reactivity:	0

**16. OTHER INFORMATION** 

Preparation Date	28 June 2016
Revision Date	8 July 2025
Revision Note	Revision 2 – Adjustments to Section 1

### **Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS