

Safety Data Sheet

according to WHS Regulations

Printing date 06.04.2021

Revision: 06.04.2021

1 Identification

Product Name: TITAN ACIDSURF ACIDIFYING SURFACTANT**Other Means of Identification:** Mixture**APVMA Number:** 90476**Recommended Use of the Chemical and Restriction on Use:** Professional applications**Details of Manufacturer or Importer:**Titan Ag Pty Ltd
Princes Street Marina,
Suite 15/16 Princes Street,
Newport NSW 2106**Phone Number:** (02) 9999 6655**Emergency telephone number:** 04 1861 5823

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Corrosion

Corrosive To Metals 1

H290 May be corrosive to metals.

Skin Corrosion/Irritation 1B

H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1

H318 Causes serious eye damage.

Signal Word Danger**Hazard Statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

P234 Keep only in original packaging.

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 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/doctor.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material-damage.

P405 Store locked up.

P406 Store in a corrosion resistant container /container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

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3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 7664-38-2	Phosphoric acid	3-5%
	☠ Skin Corrosion/Irritation 1B, H314; ⚠ Acute Toxicity (Inhalation) 4, H332	

4 First Aid Measures

Inhalation:

Avoid breathing vapour, spray or mist. If inhaled, remove to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water for at least 15 minutes. Seek immediate medical attention.

Eye Contact:

In case of eye contact, rinse cautiously with water for at least 15 minutes, keeping eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give small quantities of water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Vapour, gas or dust may cause irritation or corrosion to the respiratory tract.

Skin Contact: Causes severe skin burns. May cause pain, irritation, redness and blistering.

Eye Contact: Causes serious eye damage. Vapour may cause eye irritation, pain, redness and lachrymation.

Ingestion: May cause burns to the mouth, throat and stomach.

Medical Attention and Special Treatment:

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Use fire extinguishing methods suitable to surrounding conditions. Avoid using water spray or fog as an extinguishing agent.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of phosphorous and other toxic gases and fumes.

This product is not flammable but may decompose in a fire.

Containers close to fire may burst if heated and should be removed if safe to do so.

Reacts violently with water. The product forms extremely flammable hydrogen gas in contact with metals, which can form explosive mixtures with air.

Minimise firefighting run off from entering drains or water courses.

Hazchem Code: 2X

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

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6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours, mists or fumes. Ensure adequate ventilation. Do not walk through or touch spilled material.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering soil, drains or water courses. Inform the relevant authorities in the event of environmental pollution.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and move containers from spill area. Dilute with water and mop up spill if water soluble. If insoluble in water, absorb spill with a dry non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth. Collect the spilled material and place into a suitable container for disposal. The spilled material may be neutralised with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of according to local regulations. Take care as contaminated absorbent material may pose the same hazard as the spilled product.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours or mists. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure. Spillages should be cleaned up promptly to avoid damage to surrounding materials.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area protected from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store in a corrosion resistant container with a resistant inner liner. Carefully reseal containers after use and store upright to prevent leakage. Store locked up. Do not store in unlabelled containers. Keep away from alkalis and metals.

8 Exposure Controls and Personal Protection

Exposure Standards:
CAS: 7664-38-2 Phosphoric acid

WES	STEL: 3 mg/m ³
	TWA: 1 mg/m ³

Engineering Controls:

If dust, fumes, gas, vapour or mist is generated during handling, use process enclosures, local exhaust ventilation or other engineering controls to keep the airborne contaminants below occupational exposure standards.

Respiratory Protection:

Use an approved acid gas filtered (Type E) respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Use chemical-resistant, impervious gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

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Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Use tightly-fitting goggles when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid [Viscous]
Colour:	Light tan
Odour:	Slight
Odour Threshold:	No information available
pH-Value:	<1
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Product is non-flammable
Ignition Temperature	No information available
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Density:	No information available
Relative Density:	1.08
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	No information available
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Reacts violently with water. The product forms extremely flammable hydrogen gas in contact with metals, which can form explosive mixtures with air.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid:

Storage in direct sunlight or contamination by any source including metals, dust and organic materials.

Incompatible Materials: Alkalis and metals.

Hazardous Decomposition Products:

Hazardous combustion products include carbon dioxide, carbon monoxide, oxides of nitrogen, oxides of phosphorous and other toxic gases and fumes.

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11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:****CAS: 7664-38-2 Phosphoric acid**

Oral	LD50	1,530 mg/kg (rat)
Dermal	LD50	2,740 mg/kg (rabbit)
Inhalation	LC50/1 h	>850 mg/m ³ (rat)

Acute Health Effects**Inhalation:** Vapour, gas or dust may cause irritation or corrosion to the respiratory tract.**Skin:** Causes severe skin burns. May cause pain, irritation, redness and blistering.**Eye:** Causes serious eye damage. Vapour may cause eye irritation, pain, redness and lachrymation.**Ingestion:** May cause burns to the mouth, throat and stomach.**Skin Corrosion / Irritation:** Causes severe skin burns.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No data associated with long term health effects.**Existing Conditions Aggravated by Exposure:** No data available.

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:****CAS: 7664-38-2 Phosphoric acid**

EC50	270 mg/l (activated sludge inhibition)
EC50/48 h	>100 mg/l (daphnia)
EC50/72 h	>100 mg/l (scenedesmus subspicatus)
LC50/96 h	138 mg/l (mosquito fish)

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

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13 Disposal Considerations

Disposal Methods and Containers:

Dispose of surplus and non-recyclable products according to applicable local and state government regulations. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Waste packaging should be recycled.

Special Precautions for Landfill or Incineration:

Incineration or landfill should only be considered when recycling is not feasible. Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number	UN1760
ADG, IMDG, IATA	
Proper Shipping Name	
ADG, IMDG	CORROSIVE LIQUID, N.O.S.
IATA	Corrosive liquid, n.o.s.
Dangerous Goods Class	
ADG Class:	8 Corrosive substances.
Subsidiary Risk:	None
Packing Group:	
ADG, IMDG, IATA	II
Marine pollutant:	Not available
EMS Number:	F-A,S-B
Hazchem Code:	2X
Special Provisions:	274
Limited Quantities:	1 L
Packagings & IBCs - Packing Instruction:	P001, IBC02
Portable Tanks & Bulk Containers - Instructions:	T11
Portable Tanks & Bulk Containers - Special Provisions:	TP2, TP27

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

Australia: Priority Existing Chemicals

None of the ingredients is listed.

16 Other Information

Date of Preparation or Last Revision: 06.04.2021

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

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Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Corrosive To Metals 1: Corrosive to metals – Category 1

Acute Toxicity (Inhalation) 4: Acute toxicity - inhalation – Category 4

Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”

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