# SAFETY DATA SHEET

Revision date: 11-Aug-2023



Revision Number 1

### **1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Product identifier			
Product Name	PRADSIL-400		
Product Code(s)	00000054491		
Other means of identification			
Pure substance/mixture	Mixture		
Recommended use of the chemical and restrictions on use			
Recommended use	Mineral Processing Aid.		
Uses advised against	No information available		

Supplier Ixom Operations Pty Ltd ABN: 51 600 546 512 Level 8, 1 Nicholson Street Melbourne 3000 Australia

Telephone Number: +61 3 9906 3000

#### Emergency telephone number

Emergency telephone number

1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

### 2. HAZARDS IDENTIFICATION

### GHS Classification

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

#### SIGNAL WORD Warning

#### Label elements

Exclamation mark



### Hazard statements

H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation

### **Precautionary Statements - Prevention**

Avoid breathing dust / fume / gas / mist / vapours / spray Contaminated work clothing should not be allowed out of the workplace Wash eyes thoroughly after handling. Wear protective gloves/eye protection/face protection **Precautionary Statements - Response** Specific treatment (see First aid on this SDS) 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 IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse **Precautionary Statements - Disposal** Dispose of contents/container to an approved waste disposal plant

# Other hazards which do not result in classification

Poisons Schedule (SUSMP) None allocated

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixture

Chemical name	CAS No.	Weight-%
3-nitrobenzenesulphonate, sodium salt.	127-68-4	>60
non-hazardous components	-	to 100

### 4. FIRST AID MEASURES

### Description of first aid measures

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.
Inhalation	Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If symptoms persist, call a physician.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Do not rub affected area. If eye irritation persists: Get medical advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

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

Symptoms	Irritation. May cause redness and tearing of the eyes. May cause allergic skin reaction. Redness. Rashes. Hives.		
Indication of any immediate medica	al attention and special treatment needed		
Note to physicians	Treat symptomatically. May cause sensitization by skin contact.		
5. FIRE FIGHTING MEASU	RES		
Suitable Extinguishing Media			
Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO2). Foam.		
Unquitable autinguishing media	High volume weter iet		
Unsuitable extinguishing media	High volume water jet.		
Specific hazards arising from the c	hemical		
Specific hazards arising from the chemical	Over 350°C the material will burn and support combustion. Hazardous decomposition products include oxides of nitrogen, oxides of sulfur, carbon monoxide and some metal oxides.		
Hazardous combustion products	Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Metal oxides.		
Special protective actions for fire-fighters			
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
6. ACCIDENTAL RELEASE MEASURES			

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin and eyes. Avoid breathing dust or spray mist. Do not touch or walk through spilled material. Avoid generation of dust. Ensure adequate ventilation. Evacuate personnel to safe areas. Wash thoroughly after handling. Use personal protective equipment as required.		
For emergency responders	Clear area of all unprotected personnel. Use personal protection recommended in Section 8.		
Environmental precautions			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.		
Methods and material for containment and cleaning up			
Methods for containment	Stop leak if you can do it without risk. Remove ignition sources. Provide adequate ventilation.		
Methods for cleaning up	Slippery when spilt. Avoid accidents, clean up immediately. Avoid generation of dust. Cover with damp absorbent (inert material, sand or soil). Sweep up and shovel into suitable containers for disposal. Use personal protective equipment as required. Pick up and transfer to properly labelled containers.		

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling	Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Avoid generation of dust. Take off contaminated clothing and wash before reuse. Use personal protection equipment. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice.	
General hygiene considerations	Regular cleaning of equipment, work area and clothing is recommended. Wash hands and face before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.	
Conditions for safe storage, includi	ng any incompatibilities	
Storage Conditions	Keep containers tightly closed in a cool, well-ventilated place. Protect from sunlight. Store away from incompatible materials described in Section 10. Keep container closed when not in use. Protect from moisture.	
Incompatible materials	Strong oxidizing agents. Metals such as: brass, copper, nickel, cadmium.	
Poisons Schedule (SUSMP)	None allocated	

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Control parameters**

Exposure Limits

No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for particulates:

Dusts not otherwise classified: 8hr TWA = 10 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### Appropriate engineering controls

Engineering controlsEnsure adequate ventilation, especially in confined areas. Apply technical measures to<br/>comply with the occupational exposure limits.If in the handling and application of this material, safe exposure levels could be exceeded,<br/>the use of engineering controls such as local exhaust ventilation must be considered and<br/>the results documented. If achieving safe exposure levels does not require engineering<br/>controls, then a detailed and documented risk assessment using the relevant Personal<br/>Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to<br/>determine the minimum PPE requirements.

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

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the

physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, DUST MASK.



### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

information on basic physical and c	nemical properties	
Physical state	Solid	
Appearance	Granules Prills	
Color	Cream Coloured	
Odor	Faint Caramel	
Odor threshold	No information available	
Property	Values	l
рН	Approx. 8 (in 5% solution)	1
pH (as aqueous solution)	No data available	1
Melting point / freezing point	No data available	1
Boiling point / boiling range	Not Applicable	1
Flash point	>100 °C	I
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	I
Flammability Limit in Air		I
Upper flammability or explosive	Not Applicable	
limits		
Lower flammability or explosive	Not Applicable	
limits		
Vapor pressure	Not Applicable	1
Vapor density	Not Applicable	1
Relative density	0.75	1
Water solubility	No data available	I
Solubility(ies)	Soluble in water	1

No data available

Solubility(ies Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity

Other information

Page 5/9

### Remarks • Method

None known None known

None known None known None known None known None known None known None known None known None known None known

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

**Reactivity** 

Reactivity	No information available.		
Chemical stability			
Stability	Stable under normal conditions.		
Explosion data Sensitivity to mechanical impac	t None.		
Sensitivity to static discharge	None.		
Possibility of hazardous reactions			
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid			
Conditions to avoid	Heat, flames and sparks. Avoid dust generation. Exposure to air. Avoid exposure to moisture.		
Incompatible materials			
Incompatible materials	Strong oxidizing agents. Metals such as: brass, copper, nickel, cadmium.		
Hazardous decomposition products	5		

Hazardous decomposition products Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Metal oxides.

### 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Information on likely routes of exposure

Product Information	No adverse health effects expected if the chemical is handled in accordance with this Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the chemical is mishandled and overexposure occurs are:		
Inhalation	May cause irritation.		
Eye contact	Causes serious eye irritation. Dust contact with the eyes can lead to mechanical irritation.		
Skin contact	May cause irritation. May cause sensitization by skin contact.		
Ingestion	May cause gastrointestinal discomfort if consumed in large amounts.		
Symptoms	Irritation. May cause redness and tearing of the eyes. May cause allergic skin reaction. Redness. Rashes. Hives.		

Numerical measures of toxicity - Product Information

### Oral LD50

>11000 mg/kg (rat)

See section 16 for terms and abbreviations

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

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	Causes serious eye irritation. Classification is based on mixture calculation methods based on component data.
Respiratory or skin sensitization	May cause sensitization by skin contact. Classification is based on mixture calculation methods based on component data.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

## **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

Ecotoxicity

Avoid contaminating waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
3-nitrobenzenesulphonat	EC50: >500mg/L (72h,	LC50: <1350mg/L (24h,	-	LC50: =8665mg/L (48h,
e, sodium salt.	Desmodesmus	Lepomis macrochirus)		Daphnia magna)
	subspicatus)	LC50: >500mg/L (96h,		
		Leuciscus idus)		

### Persistence and degradability

Persistence and degradability Biodegradable.

### Bioaccumulative potential

**Bioaccumulation** 

Bioaccumulation is not expected.

**Component Information** 

Chemical name	Partition coefficient
3-nitrobenzenesulphonate, sodium salt.	-2.61

### <u>Mobility</u>

Mobility in soil

No information available.

Other adverse effects

### **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Dispose of in accordance with federal, state and local regulations.

### **14. TRANSPORT INFORMATION**

### ADG

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

#### <u>IATA</u>

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

### **IMDG**

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

### **15. REGULATORY INFORMATION**

### Safety, health and environmental regulations/legislation specific for the substance or mixture

### National regulations

#### Australia

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS).

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) None allocated

International Inventories AIIC

Contact supplier for inventory compliance status.

Legend: AllC- Australian Inventory of Industrial Chemicals

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### **16. OTHER INFORMATION**

Supplier Safety Data Sheet 10/ 2018

### Reason(s) For Issue: First Issue Primary SDS

Issuing Date: 11-Aug-2023

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section	on 8: EXPOSURE CONTROLS/PERSONAL		
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
С	Carcinogen		

#### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian Industrial Chemicals Introduction Scheme (AICIS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set RTECS (Registry of Toxic Effects of Chemical Substances) World Health Organization

#### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

End of Safety Data Sheet