

Safety Data Sheet according to WHS Regulations

Printing date 23.09.2021 Revision: 23.09.2021

1 Identification

Product Name: Si Phi

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Fertiliser.

Details of Manufacturer or Importer:

Nutrifield Pty Ltd 52 Technology Drive Sunshine West, VIC 3020

Phone Number: +61 (3) 9315 5800

Emergency telephone number: National Poisons Information Centre: 13 11 26

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

Skin Corrosion/Irritation 1A H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



STOT SE 3 H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary Statements

P260 Do not breathe dusts or mists.
P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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.

P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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: 1312-76-1	Silicic acid, potassium salt	20-25%
	♦ Skin Corrosion/Irritation 1A, H314; ♦ STOT SE 3, H335	
CAS: 13977-65-6	Phosphonic acid, potassium salt (1:1)	10-15%
	♦ Serious Eye Damage/Irritation 2, H319	
CAS: 1310-58-3	Potassium hydroxide	<10%
	Skin Corrosion/Irritation 1A, H314; (1) Acute Toxicity (Oral) 4, H302	

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention immediately.

Eve Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately.

Ingestion:

If swallowed, do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

Symptoms Caused by Exposure:

Inhalation: May cause respiratory irritation. Skin Contact: Causes severe skin burns. Eye Contact: Causes serious eye damage.

Ingestion: May cause burns to the throat and oesophagus. May cause gastrointestinal irritation.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use fire extinguishing methods suitable to surrounding conditions.

Specific Hazards Arising from the Chemical:

No hazardous decomposition products known.

Product is not flammable.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers

Minimise run-off from fire fighting measures entering drains or water courses.

HAZCHEM Code: 2R

Special Protective Equipment and Precautions for Fire Fighters:

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

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. Ensure adequate ventilation.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

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Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

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. 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.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use.

8 Exposure Controls and Personal Protection

Exposure Standards:

CAS: 1310-58-3 Potassium hydroxide

WES Peak limitation: 2 mg/m³

Engineering Controls: Ensure adequate ventilation of the working area.

Respiratory Protection:

Use an approved vapour respirator (Type K) 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:

Impermeable, chemical resistant 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.

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:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form: Liquid
Colour: Colourless
Odour: Neutral

Odour Threshold: No information available

pH-Value: 12.59

Melting point/freezing point:No information availableInitial Boiling Point/Boiling Range:No information availableFlash Point:No information available

Flammability: Not flammable

Ignition Temperature No information available

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Auto-ignition Temperature:No information available
No information available

Explosion Limits:

Lower:
Upper:
No information available

Relative Density: 1.26

Vapour Density:

Evaporation Rate:

Solubility in Water:

Partition Coefficient (n-octanol/water):

No information available
Completely soluble
No information available
No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No known hazardous reactions.

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

Conditions to Avoid: No further relevant information available. **Incompatible Materials:** No further relevant information available.

Hazardous Decomposition Products: No hazardous decomposition products known.

11 Toxicological Information

Toxicity:

LD50/LC50 Values Relevant for Classification:

CAS: 1310-58-3 Potassium hydroxide

Oral LD50 273 mg/kg (rat)

Acute Health Effects

Inhalation: May cause respiratory irritation.

Skin: Causes severe skin burns. **Eye:** Causes serious eye damage.

Ingestion: May cause burns to the throat and oesophagus. May cause gastrointestinal irritation.

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: May cause respiratory irritation.

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 information available

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Existing Conditions Aggravated by Exposure: No information available

12 Ecological Information

Ecotoxicity:

Aquatic toxicity:

May be harmful to aquatic life.

CAS: 1310-58-3 Potassium hydroxide

EC50/15 minutes | 22 mg/l (bacterial)

LC50/96 h | 45.4 mg/l (rainbow trout)

LC50/48 h | 40 mg/l (daphnia)

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.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number

ADG, IMDG, IATA UN1719

Proper Shipping Name

ADG, IMDG, IATA CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM

HYDROXIDE)

Dangerous Goods Class

ADG Class: 8 Corrosive substances.

Subsidiary Risk:

Packing Group:

ADG, IMDG, IATA

Marine pollutant:

EMS Number: F-A,S-B

Hazchem Code: 2R
Special Provisions: 274
Limited Quantities: 1L

Packagings & IBCs - Packing Instruction: P001, IBC03

Portable Tanks & Bulk Containers - Instructions: T11

Portable Tanks & Bulk Containers - Special

Provisions: TP2, TP27

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15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

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

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 20.09.2021

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

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)

Acute Toxicity (Oral) 4: Acute toxicity - Category 4

Skin Corrosion/Irritation 1A: Skin corrosion/irritation - Category 1A

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

Serious Eye Damage/Irritation 2: Serious eye damage/eye irritation - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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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