

MATERIAL SAFETY DATA SHEET

Issued : March 2012

1. Identification of chemical product and company

Product Name DO internal solution #306
Product Codes 32000160304, 306, 3200170938, 383399

Company:

Australian Scientific Pty Ltd
11 McDougall Street, Kotara, NSW 2289
TEL: 1800 021 083
FAX: 02 4956 2525
Emergency Tel; 1800 021 083

2. **Hazards identification** Not classified as hazardous according to criteria of ASCC
Not classified a Dangerous Good according to ADG Code

Risk Phrases:

Not Hazardous, no criteria found

Safety Phrases:

None :

Description:

Clear liquid

Emergency overview : The chemical dose not have particular human health hazard, but a large dose swallow may irritate to digestive organs and cause nausea, increased blood pressure, and disorder of circulatory organs.

NOT carcinogenic

3. Composition/information on ingredients

Chemical name	Content	Formula	CAS No.
Potassium chloride	Nearly 6%	KCl	7447-40-7
Potassium dihydrogen phosphate	Nearly 3.4%	KH ₂ PO ₄	7778-77-0
Disodium Hydrogen phosphate (Anhydrous)	Nearly 3.6%	Na ₂ HPO ₄	7558-79-4
Water	make up to 100%		

4. First - aid measures

Eye : Wash the affected areas under running water.
Skin : Wash the affected areas under running water.
Inhalation : Remove the victim to fresh air, and make him blow his nose and gargle.
Ingestion : Give the victim water. If necessary, get medical attention.

5. Fire-fighting measures

- Extinguishing medias : This product is noncombustible.
Flammable properties : None
Fire fighting instructions : Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

6. Accidental release measures

- Land spill : If it is leaked on the floor, immediately sweep up and place in an empty container.
Water spill : Be careful not to discharge the dense liquid-waste into rivers.

7. Handling and storage

- Handling : After work, wash hands.
Storage : Avoid direct sun-beam and store in a dark, cool place and tightly closed.

8. Exposure controls/personal protection

- Exposure limit values : Not available

Exposure controls

Occupational Exposure Controls

- Engineering controls : Install a local ventilation system under dense vapor and dusty condition.

Personal Protection

- Respiratory Protection : Not necessary
Hand Protection : If necessary, wear protective gloves
Eye Protection : If necessary, wear Safety goggles
Skin Protection : If necessary, wear protective gloves

9. Physical and chemical properties

Appearance

- Form : Liquid
Color : Colorless

Safety data

- pH : Approx. 6.8
Boiling Point/Boiling Range : Approx. 100°C
Melting Point/Melting Range : Approx. -10°C
Decomposition Temperature : No data available
Flash Point : Noncombustible
Auto Ignition Temperature : No data available
Flammability : Noncombustible
Explosive Properties : No data available
Oxidizing Properties : No data available
Vapor Pressure : No data available
Relative Density : Approx. 1.1g/mL(20°C)
Solubility : Water; Freely soluble
Partition Coefficient (n-octanol/water) : No data available
Viscosity : No data available
Vapor Density : No data available
Evaporation Rate : No data available

10. Stability and reactivity

Stability : Stable under normal usage.
Condition to avoid : Light, heat

11. Toxicological information

Acute Toxicity : If swallowed a large dose, digestive organs are irritated and may cause vomiting, increased blood pressure, and disorder of circulatory organ.
(as Disodium hydrogen phosphate)
Rabbit intravenous LD₅₀=1075mg/Kg
Rabbit intravenous LD₅₀=1000mg/Kg

Eye Irritation : Nothing particular
Skin Irritation : Nothing particular
(as Disodium hydrogen phosphate)
Rabbit skin 500mg/24H Mild

Sensitization : Not available
Repeated Dose Toxicity : Not available
Chronic Toxicity : Not available
Mutagenicity : Not available
Carcinogenicity : Not available
Reproductive and Developmental Toxicity : Not available

Potential health effects

Inhalation : Not available
Eye : Not available
Skin : Not available
Ingestion : Not available

12. Ecological information

Ecotoxicity : Not available
Persistence And biodegradability : Not available
Bioaccumulative potential : Not available
Potential environmental effects : Not available

13. Disposal considerations

Product : Dilute the chemical with a large amount of water and flush in a drain after confirming pH of the solution. Or consult approved disposal companies.
Contaminated packaging : In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

Not classified as dangerous goods
Not classified as hazardous material

15. Regulatory information

Australian Inventory of Chemical Substances

All of the significant ingredients in this formula are compliant with NICAS regulations

16. Other information

This MSDS summarises our best knowledge of the health and safety information of the product and how to safely handle and use the product in the workplace. Each user must review this MSDS in the context of how the product will be used in the workplace.