

Material Safety Data Sheet

CS: 1.4.21

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Infosafe No™ 1CH0F Issue Date : January 2009 -ISSUED by CHEMSUPP CS: 1.4.21

Product Name **2,6-DICHLOROPHENOL-INDOPHENOL SODIUM SALT**

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name 2,6-DICHLOROPHENOL-INDOPHENOL SODIUM SALT
Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address 50 Bedford Street GILLMAN
SA 5013 Australia
Telephone/Fax Number Tel: (08) 8440-2000
Fax: (08) 8440-2001
Recommended Use Indicator, colourmetric reagent and determination of ascorbic acid (vitamin C).

Other Names Name Product Code

2,6-DICHLOROPHENOL-INDOPHENOL SODIUM SALT DL027
Tillman's reagent
Sodium 2,6-dichloroindophenol
2,6-Dichlorophenol-indophenol sodium salt dihydrate

Other Information EMERGENCY CONTACT NUMBER: +61 08 8440 2000
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous according to criteria of NOHSC
NON-HAZARDOUS SUBSTANCE.
NON-DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) Not classified as hazardous according to criteria of NOHSC

Irritancy of Product May cause irritation to skin, eyes and respiratory system. May be harmful if inhaled or ingested.

Teratogenicity No evidence of teratogenic effects.

Safety Hazards Avoid ingestion and inhalation of product. Avoid contact with skin and eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	2,6-Dichlorophenolindophenol sodium salt	620-45-1	100 %		

4. FIRST AID MEASURES

Inhalation Remove victim to fresh air. Seek medical advice.

Ingestion Give water to drink. DO NOT induce vomiting. Seek medical attention.

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Skin	Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
Eye	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. FIRE FIGHTING MEASURES

Hazards from Combustion Products	Emits irritating and toxic fumes under fire conditions.
Specific Methods	Use measures suitable for extinguishing surrounding fire. Suitable extinguishing media: water spray, carbon dioxide, dry chemical powder or appropriate foam.
Specific Hazards	May burn but do not ignite readily. Fire may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
Precautions in connection with Fire	Use suitable protective equipment for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Do NOT touch or walk through this product. Stop leak if safe to do so. Clean up spill immediately. Sweep up, place into suitable waste disposal container. Avoid generating dusty conditions.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Handle with caution. Avoid inhalation and ingestion. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid generation of dusty conditions.
Conditions for Safe Storage	Store in cool place and out of direct sunlight. Keep container tightly closed and dry

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for this product. There is a blanket limit of 10 mg/m3 for dusts or mists when limits have not otherwise been established.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
Hand Protection	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Body Protection	Wear suitable protective clothing to prevent skin contact.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	Dark green powder.
Odour	Odourless.

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Solubility in Water Slightly soluble.
Solubility in Organic Solvents Freely soluble in alcohol.
Flammability Combustible.
Molecular Weight 326.11
Other Information The aqueous solution is deep blue, changed to red by acids.

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hygroscopic.
Conditions to Avoid Moisture. Heat, flames, ignition sources and incompatibles.
Incompatible Materials Strong oxidizing agents.
Hazardous Decomposition Products Carbon and nitrogen oxides, chlorine, and sodium oxide.
Hazardous Reactions Liberates iodine from potassium iodide in acid solutions.
Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation May be harmful if inhaled. May cause irritation to the mucous membranes and respiratory tract.
Ingestion Irritating to digestive tract causing gastrointestinal irritation along with nausea, vomiting and diarrhea. May be harmful if extremely large oral doses are swallowed.
Skin May cause irritation. Harmful if absorbed through the skin.
Eye May cause irritation and inflammation with symptoms of redness, watering and itching. High concentrations of dust may cause mechanical irritation.
Mutagenicity No evidence of mutagenic properties.
Carcinogenicity No evidence of carcinogenic properties.

12. ECOLOGICAL INFORMATION

Ecotoxicity No ecological data available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of according to relevant local, state and federal government regulations.

14. TRANSPORT INFORMATION

15. REGULATORY INFORMATION

Poisons Schedule Not Scheduled

16. OTHER INFORMATION

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

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Empirical Formula C12 H6 Cl2 NO2 Na.2H2O**& Structural****Formula****Literature****References**

Australian Government Department of Health and Ageing, 'Standard for the Uniform Scheduling of Drugs and Poisons No. 23', Commonwealth of Australia 2008.

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.

South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.

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Standards Australia, 'SAA/SNZ HB 76:2004 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, August 2004.

Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]', AusInfo, Canberra 2004.

Worksafe Australia, 'Hazardous Substances Information System, 2005'.

Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.

User Codes**User Field Title****User Code**

CAS No.

620-45-1

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