

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

Identification of the substance/preparation

Product code 4404307

Product name Hi-Di(TM) Formamide 3500 Dx Series

Company/Undertaking Identification

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301-431-8585

Outside of the U.S. +1-301-431-8585

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

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2. Hazards identification

Australian MSDS Statement

Classified according to the criteria of Worksafe Australia. Hazardous Substance. Non-Dangerous Goods.

GHS - Classification

Signal Word DANGER



Health Hazard

Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2B
Reproductive Toxicity	Category 1B

Physical Hazards

not hazardous

Hazard statements

H316 - Causes mild skin irritation

H320 - Causes eye irritation

H360 - May damage fertility or the unborn child

Precautionary statements

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P281 - Use personal protective equipment as required

P264 - Wash hands thoroughly after handling

European Union



EU Specific Hazard Statements

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R -phrase(s)

R61 - May cause harm to the unborn child

R36/38 - Irritating to eyes and skin

S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S53 - Avoid exposure - obtain special instructions before use

Principle Routes of Exposure/

Potential Health effects

Eyes Irritating to eyes.

Skin Irritating to skin and mucous membranes. Components of the product may be

absorbed into the body through the skin.

Inhalation May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed.

Specific effects

Product code

Carcinogenic effectsnot applicableMutagenic effectsnot applicable

Reproductive toxicity May cause adverse reproductive effects - such as birth defect, miscarriages, or

infertility

Sensitization not applicable

Target Organ Effects Eyes

Skin Kidney Liver

Central nervous system (CNS)

Respiratory system Reproductive System

3. Composition/information on ingredients

Chemical Name	CAS-No	EINECS-No	Weight %
Formamide	75-12-7	200-842-0	60-100

We recommend handling all chemicals with caution.

4. First aid measures

Skin contact Wash off immediately with plenty of water. In the case of skin irritation or allergic

reactions see a physician.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, call

a physician.

Ingestion Rinse mouth. Consult a physician. Do not induce vomiting without medical advice.

Inhalation Move to fresh air. Consult a physician.

Notes to physician Treat symptomatically.

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5. Fire-fighting measures

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Suitable extinguishing media

Foam. Dry powder. Dry chemical. Carbon dioxide (CO2).

Water.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions Methods for cleaning up Use personal protective equipment. Soak up with inert absorbent material.

Environmental precautions

Prevent further leakage or spillage if safe to do so.

See Section 12 for additional information.

7. Handling and storage

Handling Avoid contact with skin and eyes. Always wear reccommended Personal

Protective Equipment.

Storage Keep in properly labelled containers.

8. Exposure controls/personal protection

Exposure limits

Chemical Name	Australia STEL	Australia OEL	Australia - Skin Absorbers	Australia - OES - Peak
Formamide 75-12-7	none	10 ppm 18 mg/m ³	Skin	none

Chemical Name	New Zealand - Workplace Exposure Limits	New Zealand TWA	New Zealand STEL	New Zealand Ceiling Limits
Formamide 75-12-7	skin notation	none	none	none

Chemical Name	China OEL	China - Skin Absorbers	Hong Kong OEL
Formamide	none	none	none
75-12-7			

Chemical Name	Korea OEL (CEILING)	Korea OEL (TWA)	Korea OEL (STEL)
Formamide	none	10 ppm 15 mg/m ³	none
75-12-7			

Chemical Name	Taiwan OEL (TWA)	Taiwan OEL	Taiwan Ceiling Limits
Formamide	20 ppm 37 mg/m ³	Skin notation	none
75-12-7	-		

Chemical Name	Singapore OEL (PEL)	Singapore OEL (STEL)
Formamide	10 ppm 18 mg/m ³	none
75-12-7		

Engineering measures

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Hand protection Impervious gloves.

Eye protection Safety glasses with side-shields. Skin and body protection. Lightweight protective clothing.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure

controls

Prevent product from entering drains.

9. Physical and chemical properties

General Information

Form liquid Appearance colorless

Odor No information available

 Boiling Point/Range
 °C 210
 °F 410

 Melting point/range
 °C 2
 °F 35-36

 Flash point
 °C 154
 °F 309-310

Autoignition temperature °C no data available Oxidizing properties No information available.

Water solubility soluble

10. Stability and reactivity

Stability Stable under normal conditions.

Materials to avoid Strong oxidizing agents

Hazardous decomposition Carbon oxides, Nitrogen Oxides

products

polymerization No information available.

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°F no data available

11. Toxicological information

Acute toxicity

Chemical Name	LD50 (oral,rat/mouse)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat/mouse)
Formamide	> 5000 mg/kg (Rat)	13500 mg/kg	3900 ppm/6H

Principle Routes of Exposure/

Potential Health effects

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Skin Irritating to skin and mucous membranes. Components of the product may be

absorbed into the body through the skin.

Inhalation May cause irritation of respiratory tract.

Ingestion May be harmful if swallowed.

Reproductive toxicity May cause adverse reproductive effects - such as birth defect, miscarriages, or

infertility.

Target Organ Effects Eyes Skin Kidney Liver Central nervous system (CNS) Respiratory system

Reproductive System

12. Ecological information

Ecotoxicity effects Daphnia magna (Water flea)

Mobility see log Pow

BiodegradationNo information available.
Bioaccumulation
No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
Formamide 75-12-7	Desmodesmus subspicatus EC50>500 mg/L (72 h) Desmodesmus subspicatus EC50>500 mg/L (96 h)	Daphnia magna EC50>500 mg/L (48 h)			logPow-0.82

13. Disposal considerations

Dispose of in accordance with local regulations.

14. Transport information

IATA

Proper shipping name

Not classified as dangerous in the meaning of transport regulations

Hazard class none
Subsidiary Class none
Packing group none
UN-No none

15. Regulatory information

International Inventories

Complies

Chemical Name	EINECS	ELINCS	ENCS	PICCS	TSCA
Formamide	Listed	-	Listed	Listed	Listed
Chemical Name	China	AICS	KECL	DSL	NDSL
Formamide	Listed	Listed	Listed	Listed	

Korea

This product complies with applicable Korean chemical regulations.

Chemical Name	Industrial Safety and Health Act (ISHA)	Toxic Chemicals Control Act (TCCA)	Wastes Control Act	National Emergency Management Agency (NEMA) - Dangerous Substances
Formamide	Reproductive Tox. 1B 10ppm TWA 15mg/m³ TWA Skin notation	Not Listed	Not Listed	Not Listed

16. Other information

Reason for Revision

(M)SDS sections updated

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unkown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE.

End of Safety Data Sheet