



MATERIAL SAFETY DATA SHEET

LINTPLUS®

Version: 1.2
Date of Issue: 06/26/2007
Date printed: 10/11/2007

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : LINTPLUS®

Chemical name: Dimethipin (active)

Use of substance/preparation: Plant Growth Regulator

Supplier: Chemtura Corporation
199 Benson Road
Middlebury, CT 06749 USA

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Chemtura Corporation Emergency Response (24 hours) 800-292-5898

Environmental, Health and Safety Department: 866-430-2775

Prepared by Product Safety Department Date of Issue: 06/26/2007
(US) +1 866-430-2775
(EU) +44 (0) 1753.603.000
Email: MSDSRequest@chemtura.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!
MAY CAUSE MODERATE IRRITATION TO EYES.
MAY BE IRRITATING TO SKIN.
PROLONGED AND/OR REPEATED EXPOSURE MAY CAUSE THE FOLLOWING EFFECTS:
MAY CAUSE SENSITIZATION BY SKIN CONTACT.

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	% BY WEIGHT
Dimethipin CAS# 55290-64-7	22.4
Isobutanol CAS# 78-83-1	10 - 15
1,2-Propanediol CAS# 57-55-6	< 10



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4. FIRST AID MEASURES

Swallowing

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

5. FIRE-FIGHTING MEASURES

Flash point: 187 °F 86 °C
Autoignition temperature: Not available

Hazardous combustion products

Burning can produce the following combustion products:

- Oxides of carbon.
- Oxides of sulfur.
- Oxides of phosphorous.

Special fire fighting procedures

Do not discharge extinguishing waters into streams, rivers and lakes.

Special protective equipment for firefighters

Body covering protective clothing, full "turn-out" gear.
Self-contained breathing apparatus.

Extinguishing media

Suitable: **Large fires:**
- alcohol-type foam or universal-type foams
Small fires:
- CO2
- dry chemical

Unsuitable: - water jets

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear suitable protective equipment., Avoid contact with eyes and skin.

Environmental precautions

Prevent from entering sewer system, surface water or soil.

Methods for cleaning up

Observe government regulations.

Small spills: Absorb on inert material such as sand, earth, vermiculite.
Collect for disposal.



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Large spills **Dike to contain spill.**
Pump excess material into suitable container (metal drums, metal tank, or such).

7. HANDLING AND STORAGE

HANDLING

Handling precautions

Do not get in eyes., Avoid prolonged or repeated contact with skin., Avoid breathing vapor., Use with adequate ventilation., Wash thoroughly after handling.

Other precautions

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

STORAGE

Storage requirements

Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

Component	Country	Type	Value	Remark
Isobutanol		TWA, OSHA	150 mg/m ³ 50 ppm 50 ppm	
		TWA, ACGIH	50 ppm 50 ppm	
1,2-Propanediol	Australia	TWA	10 mg/m ³	

PERSONAL PROTECTION

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment., The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation., The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned.

Hand protection / protective gloves

Chemical resistant protective gloves

Eye protection

Safety glasses with side shields.

Skin protection

Wear protective clothing, such as long sleeves to minimize skin contact.

Other protective equipment

Eye bath, Safety shower

ENGINEERING CONTROLS

Ventilation

General (mechanical) room ventilation is expected to be satisfactory., Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state Liquid



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Color Brown
Odor Alcoholic

OTHER PROPERTIES

Boiling point 93 °C
199 °F
at STP unless specified below. at STP unless specified below.
Melting point at STP unless specified below. Not available

Solidification -10 °C 14 °F

pH 2.6

Specific gravity (H₂O=1) 1.11

Solubility in water Dispersible

Flash point 187 °F
86 °C

Autoignition temperature Not available

Dynamic viscosity 349 mPa.s

Molecular weight 210.3

Surface tension 34.6 dyn/cm at 20.1 °C

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal storage and handling conditions.

Stability - Conditions to avoid:

The following will cause product degradation:
High temperatures.

Incompatible materials:

Strong acids.
Strong bases.
Strong oxidizing agents.

Hazardous combustion products:

Burning can produce the following combustion products:
Oxides of carbon.
Oxides of sulfur.
Oxides of phosphorous.

11. TOXICOLOGICAL INFORMATION

SWALLOWING

Test results

Acute toxicity: LD50 Rat
Result: 2,890 mg/kg

SKIN ABSORPTION



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Test results

Acute toxicity: LD50 - Rat
Result: > 2,000 mg/kg

INHALATION

Test results

Acute toxicity: LC50 - Rat
Result: > 6.9 mg/l
Exposure time: 4 h

SKIN CONTACT

Test results

Skin irritation: Species: Rabbit
Result: Irritant

EYE CONTACT

Test results

Eye irritation: Species: Rabbit
Result: Irritant

SENSITIZATION

Test results: Species: - Guinea pigs
Result: sensitizing

MUTAGENICITY

Assessment: Negative

CARCINOGENICITY

Assessment: Negative

TOXICITY TO REPRODUCTION/FERTILITY

Assessment: Negative

12. ECOLOGICAL INFORMATION

Biodegradation: Remark: Not readily biodegradable.

AQUATIC TOXICITY

Acute toxicity fish: - LC50 - Rainbow trout (*Oncorhynchus mykiss*)
Result: 22.57 mg/l
Exposure time: 96 h

Aquatic toxicity to plants: - IC50 - Algae
Result: 10.5 mg/l
Exposure time: 72 h

Acute toxicity to aquatic invertebrates: - EC50 - Water flea (*Daphnia magna*)
Result: 7.1 mg/l
Exposure time: 48 h

13. DISPOSAL CONSIDERATIONS

General: Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural waters.



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14. TRANSPORT INFORMATION

DOT Classification

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dimethipin)
Class: 9
UN ID #: UN3082
Packing group: III
marine pollutant: MARINE POLLUTANT

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

IMDG Classification

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Class: 9
Subsidiary risk: marine pollutant
UN ID #: UN 3082
Packing group: III
Technical description (Dimethipin)

ICAO Classification

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Class: 9
UN ID #: UN 3082
Packing group: III
Technical description (Dimethipin)

Only regulated by air Into, Out of or Within the United States in containers 881.8 lbs (400 kg) or greater.

15. REGULATORY INFORMATION

Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.

Components present in this product at a level which could require reporting under the statute are:

Chemical name	CAS#	Max weight %
Dimethipin	55290-64-7	22.40

New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
Dimethipin	55290-64-7	

Inerts -

CHEMICAL INVENTORY

Canada: The ingredients of this product are on the DSL.
Europe: The ingredients of this product are on the EINECS inventory.
United States: The ingredients of this product are on the TSCA inventory.
Australia: The ingredients of this product are on the AICS inventory.



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16. OTHER INFORMATION

RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

STP	Standard temperature and pressure
W/W	Weight/Weight 0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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