

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : PPM™ (Plant Preservative Mixture)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Preservative for plant tissue culture media

1.3. Details of the supplier of the safety data sheet

Plant Cell Technology, Inc. 1823 Jefferson Street, NW Washington, DC 20036 (202) 778-8522

1.4. Emergency telephone number

Emergency number : (202) 778-8522

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Resp. Sens. 1 H334 Skin Sens. 1 H317

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statements (GHS-US) : P261 - Avoid breathing vapors

P272 - Contaminated work clothing must not be allowed out of the workplace

P280 - Wear protective equipment

P284 - In case of inadequate ventilation wear respiratory protection

P302 + P352 - If on skin: Wash with plenty of water

P304 + P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P342 + P311 - If experiencing respiratory symptoms: Call a poison center or doctor/physician

P362+P364 - Take off contaminated clothing and wash it before reuse

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

None of the ingredients are of unknown toxicity

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable - product is a mixture

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Proprietary ingredient*	Proprietary*	< 0.5*	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1. H317

*This information has been withheld as a trade secret

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SECTION 4: First aid measures

4.1. **Description of first aid measures**

First-aid measures general Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the product label where possible).

First-aid measures after inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

No additional information available

5.3. **Advice for firefighters**

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Contain all water used for fire-fighting to the greatest extent possible.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

: Equip cleanup crew with proper protection. Dilute with 100x water. Protective equipment

Emergency procedures : Ventilate area

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Hygiene measures

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Precautions for safe handling

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing vapors.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place. Ideal storage temperature is

39° F (4° C). Do not store at temperatures in excess of 70° F (21° C).

Incompatible products : Strong bases. Strong acids.

: Sources of ignition. Direct sunlight. Incompatible materials

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Proprietary ingredient	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls : Ensure that proper ventilation is provided.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Clear to light amber

Odor : Mild

Odor threshold : No data available

pH : 5-7

Melting point : No data available : No data available Freezing point Boiling point : No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available : Not applicable Flammability (solid, gas) **Explosion limits** : No data available : No data available Explosive properties : No data available Oxidizing properties Vapor pressure : No data available Relative density : No data available : No data available Relative vapor density at 20 °C Solubility : Infinite in water Log Pow : No data available Log Kow No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

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10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

LD50 oral rat

Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

PPM™ (Plant Preservative Mixture)

Likely routes of exposure : Skin and eye contact; Ingestion; Inhalation

Acute toxicity : Not classified

LD30 oral fat	30 g/kg	
ATE US (oral)	30000.000 mg/kg body weight	
Proprietary ingredient		
LD50 oral rat	481 mg/kg	
LC50 inhalation rat (mg/l)	1.23 mg/l/4h	
ATE US (oral)	481.000 mg/kg body weight	
ATE US (vapors)	1.230 mg/l/4h	
ATE US (dust, mist)	1.230 mg/l/4h	

Skin corrosion/irritation : Not classified

pH: 3.8

30 a/ka

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an

allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity Not classified Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

Potential Adverse human health effects and

symptoms

: No additional information available

: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an Symptoms/injuries after inhalation

allergic skin reaction.

SECTION 12: Ecological information

12.1. **Toxicity**

Proprietary ingredient	
LC50 fish 1	1.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])
EC50 Daphnia 1	4.71 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	0.12 - 0.3 mg/l (Exposure time: 48 h - Species: Daphnia magna [Flow through])

12.2. Persistence and degradability

PPM™ (Plant Preservative Mixture)	
Persistence and degradability	Not established.

12.3. **Bioaccumulative potential**

PPM™ (Plant Preservative Mixture)		
Bioaccumulative potential	Not established.	
Proprietary ingredient		
Log Pow	-0.71 - 0.75 (at 20 °C)	

Mobility in soil

No additional information available

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12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local, state, and federal regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated for transport

Additional information

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

PPM™ (Plant Preservative Mixture)		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
Proprietary ingredient		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
EPA TSCA Regulatory Flag	S - indicates a substance that is identified in a proposed or final Significant New Uses Rule.	

15.2. International regulations

CANADA

Proprietary ingredient

Listed on the Canadian DSL (Domestic Sustances List)

EU-Regulations

Proprietary ingredient

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

National regulations

Proprietary ingredient

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

15.3. US State regulations

No additional information available

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SECTION 16: Other information

Other information : None.

Full text of H-phrases:

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Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Sens. 1	Skin sensitization Category 1
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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