

M A T E R I A L S A F E T Y D A T A S H E E T

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Date of Prep: 04/02/2013

SECTION 1 -- PRODUCT & COMPANY IDENTIFICATION

SUNNYSIDE CORPORATION
225 CARPENTER AVENUE
WHEELING, ILLINOIS 60090
EMERGENCY TELEPHONE

(847) 541-5700
(800) 424-9300

FOR INFORMATION: (847) 541-5700
- SUNNYSIDE CORPORATION
- CHEM TREC

PRODUCT NAME M-1 Advanced Mildew Treatment
CHEMICAL NAME Not Applicable
CHEMICAL FAMILY Not Applicable
FORMULA Proprietary
SYNONYMS None

MANUFACTURER

Sunnyside Corporation
225 Carpenter Avenue
Wheeling, IL 60090-6095

SECTION 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

The listed components are considered to be hazardous based on OSHA's Hazard Communication Standard. For further regulatory see Section 15.

CHEMICAL NAME	CAS #	PERCENT	AGENCY	Exposure Limits
Aliphatic alcohol	Proprietary	30-50	Not applicable	None established
Glycol ether	Proprietary	30-50	Not applicable	None established
3-iodo-2 propynyl butyl carbamate	55406-53-6	20	Not applicable	None established

OSHA Regulatory Status: This product is classified as hazardous under OSHA regulations.

SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

M-1 Advanced Mildew Treatment is a clear amber liquid with a characteristic odor. May cause severe eye and skin irritation and mild respiratory irritation. May evolve iodine vapors during combustion. Toxic to fish.

**ROUTES OF ENTRY:
INGESTION**

Ingestion, skin contact, skin absorption, eyes, inhalation
Single dose oral toxicity is bw. Swallowing small amounts during normal handling is not likely to cause harmful effects. Ingestion of excessive quantities may cause gastrointestinal irritation (nausea, vomiting, and diarrhea) and central nervous system effects

SKIN:

Direct contact may cause severe skin irritation. Solvents may be absorbed through the skin and may contribute to symptoms of toxicity from other routes of exposure. This product is not a skin sensitizer

EYE CONTACT

3-iodo-2-propynyl butyl carbamate (IPBC) may cause severe eye irritation and possible corneal injury unless washed from eyes promptly. The irritation and injury is reversible

INHALATION

Toxic by inhalation based on animal toxicity. However, because of its low volatility, exposure to vapors is unlikely. High concentrations of mists may irritate the nose and throat and cause nausea, headache, dizziness, weakness, fatigue, and even death.

CHRONIC EFFECTS

Repeated, prolonged, excessive exposure may cause anesthetic or narcotic effects and may result in kidney damage

TARGET ORGANS

Central nervous system, kidneys, eyes.

CARCINOGENICITY

This product (or component) is not listed as a carcinogen according to OSHA, NTP, IARC and ACGIH.

**MEDICAL CONDITIONS THAT MAY BE
AGGRAVATED BY EXPOSURE**

May aggravate pre-existing kidney and lung disorders.

SECTION 4 -- FIRST AID MEASURES

INGESTION

Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person

SKIN:

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

EYE CONTACT

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

INHALATION

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

NOTES TO PHYSICIAN

Probable mucosal damage may contraindicate use of gastric lavage. Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT	>110° C (>230° F) ASTM D3278-96 Seta flash Closed Cup)
FLAMMABLE LIMITS	1.5% - 10.9% (for glycol ether)
AUTOIGNITION TEMPERATURE	277° C 531° F (for glycol ether)
FLAMMABILITY CLASS	Combustible liquid Class IIIB
HAZARDOUS PRODUCTS OF COMBUSTION	Carbon monoxide, carbon dioxide and iodine vapors
FIRE EXTINGUISHING MEDIA	Dry chemical, carbon dioxide and water spray or alcohol resistant foam.
FIREFIGHTING INSTRUCTIONS	Move container from fire area if you can do it without risk. Do not scatter spilled material with high-pressure water streams. Avoid breathing vapors, keep upwind. Positive pressure self-contained breathing apparatus with full face piece and structural firefighters' protective clothing will provide limited protection
UNUSUAL FIRE & EXPLOSION HAZARDS	This material may burn but does not ignite readily. Runoff from fire control or dilution water may cause pollution. May evolve vapors of iodine..

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

Keep unnecessary people away; isolate hazard area and deny entry. Wear protective equipment as specified in Section 8. Stop leak if you can do it without risk. For small spills, absorb with vermiculite or other noncombustible absorbent material and place into containers for later disposal. For large spills, dike far ahead of liquid spill for later disposal. If water pollution occurs, notify the appropriate authorities. Observe all Federal State and Local regulations regarding notifications of accidental releases.

SECTION 7-- HANDLING & STORAGE

Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or mist. Wash thoroughly after handling. Keep container tightly closed. Use only with adequate ventilation. Store away from incompatible substances in a cool, dry, ventilated area. Do not contaminate water, food, or feed by storage or disposal. Observe all Federal State and Local regulations when storing or disposing of this substance.

SECTION 8 -- PERSONAL PROTECTION/EXPOSURE CONTROLS

VENTILATION	Provide adequate ventilation or local exhaust to minimize exposure.
EYE/FACE PROTECTION	If potential for contact with liquid exists, use splash-proof safety goggles and a face shield.
SKIN PROTECTION	Wear impervious gloves and apron to prevent skin contact. Wear impermeable suit if exposure is possible to a large portion of the body.
RESPIRATORY PROTECTION	Whenever workplace conditions warrant the use of a respirator, a respiratory protection program meeting OSHA 1910.34 must be followed utilizing a NIOSH/MSHA-approved respirator.
OTHER	Eyewash and safety shower should be available within the immediate work area for emergency use.

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear amber liquid	SPECIFIC GRAVITY AT 25°C (Water =1)	1.03-1.06
ODOR	Characteristic odor	WATER SOLUBILITY	Slightly soluble
INITIAL BOILING POINT	160°C (320° F)	pH	Not determined
VAPOR PRESSURE AT 20° C	0.013 mm Hg (calculated)	EVAPORATION RATE (Butyl acetate=1)	>1
VAPOR DENSITY (air=1)	>1	% VOLATILES BY WEIGHT	80%
VISCOSITY (Gardner) AT 25°C.	A max		
MOLECULAR WEIGHT	228 (calculated)		

SECTION 10 -- STABILITY & REACTIVITY

REACTIVITY	Stable under normal temperatures and pressures.
CONDITIONS TO AVOID	Avoid heat or sources of ignition.
INCOMPATIBILITY:	Avoid contact with strong acids, bases, and oxidizing agents.
HAZARDOUS DECOMPOSITION	Decomposition may release carbon monoxide, carbon dioxide and iodine vapors.
HAZARDOUS POLYMERIZATION	Hazardous polymerization does not occur.

SECTION 11 -- TOXICOLOGICAL INFORMATION

ACUTE ORAL EFFECTS

LD050 (oral, rat) – 2140 mg/kg

ACUTE SKIN EFFECTS

LD50 (dermal, rabbit) >2000 mg/kg. Severe skin irritant. This product is not a skin sensitizer..

ACUTE EYE EFFECTS

IPBC: Severe irritation and corrosive (rabbit) The corrosion is completely reversible and the irritation is markedly reduced by the irrigation of the eyes with water 20-30 seconds after exposure to test sample. Aliphatic alcohol : Mild to moderate irritation.

ACUTE INHALATION EFFECTS

LC50 (rat, 4 hr) – 290 mg/m³.

SUBCHRONIC EFFECTS AND OTHER STUDIES.

Glycol ether : In animal skin conduct studies, dosage levels of 5-10 mg/kg caused central nervous system and kidney effects.
For additional information on active ingredients, contact Sunnyside Corporation.

SECTION 12 -- ECOLOGICAL INFORMATION

No data is available on this product, however, ecotoxicological data is included on OSHA hazardous ingredients. For additional information, contact Sunnyside Corporation.

ECOTOXICITY

This product is toxic to fish. Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment wash waters.

Data on the active ingredient, 3-iodo-2-propynyl butyl carbamate (IPBC) , is as follows:

LC50 (rainbow trout, 96 hr flow-through) - 67 mcg/L.

EC50 (daphnia magna, 48 hr) - 0.16 mg/L

EC50 (Scenedesmus subspicatus, 72 hr) - 22 mcg/L

Aliphatic alcohol (concentration in product: 30-50%) has a moderate potential to affect some aquatic organisms, a moderate potential to affect algal growth, a low potential to affect secondary waste treatment microbial metabolism, and germination and/or early growth of some plants. It is expected to biodegrade and is not expected to persist in an aquatic environment. When diluted with a large amount of water, this material released directly or indirectly into the environment is not expected to have a significant impact

ENVIRONMENTAL FATE

This product is a pesticide and may cause adverse environmental impact. Avoid contamination of streams and sewers.

The fate of the active ingredient, IPBC, is quite favorable. Degradation is rapid and occurs through biological as well as non-biological processes.

Classified as readily biodegradable. Low potential to bioaccumulate.

Octanol/water partition coefficient: LogP_{ow}= 2.81

COD: 1148 mg/g.

Aliphatic alcohol (concentration in product: 30-50%): Biodegradation -A 28-day test for ready biodegradability using unacclimated microorganisms showed 76% degradation of the test article as measured by carbon dioxide evolution.

Octanol/water partition coefficient: LogP_{ow}= 3.47.

SECTION 13 -- DISPOSAL INFORMATION

RCRA HAZARDOUS WASTE WASTE DISPOSAL PROCEDURE

This product is not a RCRA hazardous waste by definition.

The user of the material has the responsibility to dispose of unused material, residues, and containers in compliance with all Federal, State, and Local Regulations.

SECTION 14 -- TRANSPORTATION INFORMATION

DOT	SHIPPING NAME	Non-hazardous additive/compound
	LABELS REQUIRED	None
DOT	SHIPPING NAME	UN3082, Environmentally hazardous substance , liquid n.o.s. (contains: 3-iodo-2-propynyl butyl carbamate)
(Bulk only)		9, PG III, Marine Pollutant, ERG# 171
	LABELS REQUIRED	Class 9, Marine Pollutant
IATA	SHIPPING NAME	UN3082, Environmentally hazardous substance , liquid n.o.s. (contains: 3-iodo-2-propynyl butyl carbamate)
		9, PG III, Marine Pollutant, ERG# 9L
	LABELS REQUIRED	Class 9, (Environmentally Hazardous – Contents greater 5 L)
IMDG	SHIPPING NAME	UN3082, Environmentally hazardous substance , liquid n.o.s. (contains: 3-iodo-2-propynyl butyl carbamate)
		9, PG III, Marine Pollutant, EMS# F-A,S-F
	LABELS REQUIRED	Class 9, Marine Pollutant

SECTION 15 -- REGULATORY INFORMATION**CERCLA SECTION 103 (40CFR302.4)**

This product does not contain any chemicals that are reportable to the National Response Center under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

SARA SECTION 302 (40CFR355.30), SARA SECTION 304 (40CFR355.40)

This product does not contain any chemicals that require emergency planning based on Threshold Planning Quantities (TPQ) or release reporting based on Reportable Quantities (RQ).

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40CFR370.21)

ACUTE

SARA SECTION 313 (40CFR372.65), SARA SECTION 304 (40CFR355.40)

This product contains the following toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-to-Know Act Of 1986. This information must be included in all MSDS's that are copied and distributed for this material.

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>%</u>
3-iodo-2-propynyl butyl carbamate	55406-53-6	20

CALIFORNIA PROPOSITION 65

This product does not contain any substances that are currently on the list of Known Carcinogens and Reproductive Toxins, at levels which would require a warning under the statute.

STATE RIGHT-TO-KNOW

This product is regulated by the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is exempt from State Right-to-Know labeling requirements when labeled with an approved EPA label.

EPA Registration No. 5383-74-7135

SECTION 16 -- OTHER**REVISIONS**

Prepared by: Environmental and Regulatory Affairs Dept.

This MSDS has been revised in the following sections: (revisions Indicated in left border)

New issue

ABBREVIATIONS

PNOC -Particulates not otherwise classified

PNOR- Particulates not otherwise regulated

STEL - Short-term exposure limit

TLV- Threshold limit value

TWA - Time-weighted average

HMIS RATING

HEALTH : 2 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTION: 0

NFPA RATING

HEALTH : 2 FLAMMABILITY: 1 REACTIVITY: 0

The information contained in this MSDS is believed to be accurate and remittable as of issue date but no representation, guarantee or warranty express or implied is made to the accuracy, reliability, or completeness of the information. It is provided for the purpose of complying with hazard communication regulations. It is not intended as performance information or specifications for the product. It is the user's responsibility to determine the suitability of the product for his own use. Sunnyside Corporation does not assume legal responsibility for reliance on information herein..