



SAFETY DATA SHEET

Issue Date 19-May-2015

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Version 1

1. IDENTIFICATION

Product identifier

Product Name

Moldicide WE

Other means of identification

Product Code

23328

UN/ID no

UN2922

Registration Number(s)

EPA: 67071-6-75506

Recommended use of the chemical and restrictions on use

Recommended Use

Wood Preservative.

Details of the supplier of the safety data sheet

Supplier Address

Arch Treatment Technologies, Inc.
360 Interstate North Parkway, Suite 450
Atlanta, GA 30339

Emergency telephone number

Company Phone Number

1-800-511-MSDS (Outside USA: 1-423-780-2347)

24 Hour Emergency Phone Number

1-800-654-6911 (Outside USA: 1-423-780-2970)

Emergency Telephone

For all transportation accidents call Chemtrec 1-800-424-9300 (Outside USA: 1-703-527-3887)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Toxic if swallowed
Toxic if inhaled
Causes severe skin burns and eye damage
May cause an allergic skin reaction



Physical state liquid

Odor sweet

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wear protective gloves/protective clothing/eye protection/face protection
 Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF exposed:
 Immediately call a POISON CENTER or doctor/physician
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Rinse mouth
 Do NOT induce vomiting

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Very toxic to aquatic life with long lasting effects May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS No	Weight-%	Trade Secret
Propane-1,2-diol	57-55-6	53-57	*
3(2H)-Isothiazolone, 2-octyl-	26530-20-1	46.5	

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Description of first aid measures

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not rub affected area.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation persists, call a physician. Seek immediate medical attention/advice.
Inhalation	Move to fresh air in case of accidental inhalation of vapors. Call a physician or poison control center immediately. Artificial respiration and/or oxygen may be necessary. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
Ingestion	Immediate medical attention is required. Rinse mouth. Do not induce vomiting without medical advice. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂). Water spray or fog.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). Toxic gas. Nitrogen oxides (NO_x).

Explosion data

Sensitivity to Mechanical Impact Warning.

Sensitivity to Static Discharge Warning.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Do not allow into any sewer, on the ground or into any body of water. Dike to collect large liquid spills. Local authorities should be advised if significant spillages cannot be contained.

See Section 12: ECOLOGICAL INFORMATION.

Methods and material for containment and cleaning up

Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Methods for cleaning up	Dam up. Prevent product from entering drains. After cleaning, flush away traces with water. Take up mechanically, placing in appropriate containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Transfer and handle product only in closed systems. Use only with adequate ventilation and in closed systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Incompatible with oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	Face protection shield. Goggles.
Skin and body protection	Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective nitrile rubber gloves.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. Use NIOSH-approved air-purifying respirator with organic vapor cartridge or canister, as appropriate.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	sweet
Appearance	No information available	Odor threshold	No information available
Color	yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	4.7	
Melting point / freezing point	No information available	
Boiling point / boiling range	188 °C	
Flash point	219 °F	
Evaporation rate	<1.00	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	0.12750000	
Vapor density	0.6200	
Relative density	1.0300	
Water solubility	partially soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	16.000 CPS	
Explosive properties	Not applicable	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	8.59
Bulk density	No information available

10. STABILITY AND REACTIVITY**Reactivity**

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Incompatible with oxidizing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure****Product Information**

Inhalation	Toxic by inhalation.
Eye contact	Causes serious eye damage.
Skin contact	Causes burns.
Ingestion	Toxic if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propane-1,2-diol 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-
3(2H)-Isothiazolone, 2-octyl- 26530-20-1	= 550 mg/kg (Rat)	= 690 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Causes severe burns.
Serious eye damage/eye irritation Risk of serious damage to eyes.
Irritation Irritating to eyes and respiratory system. Causes severe irritation and or burns.
Corrosivity Causes severe burns.
Sensitization May cause sensitization by skin contact.
Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)
ATEmix (dermal)
ATEmix (inhalation-gas)
ATEmix (inhalation-dust/mist)
ATEmix (inhalation-vapor)

Numerical measures of toxicity

Oral LD50 Estimated > 279 mg/kg (rat)
Dermal LD50 > 2001 mg/kg (rat, 4 hr)
Inhalation LC50 0.6 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life

No information available

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Propane-1,2-diol 57-55-6	19000 mg/L EC50 96h (Pseudokirchneriella subcapitata)	51600 mg/L LC50 96h (Oncorhynchus mykiss)	1000 mg/L EC50 48h (Daphnia magna)

Persistence and degradability

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Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated packaging Do not reuse container. Empty containers must be triple rinsed prior to disposal.

US EPA Waste Number D002

14. TRANSPORT INFORMATION

DOT

UN/ID no UN2922
Proper shipping name Corrosive liquid, toxic, n.o.s.
Hazard Class 8
Subsidiary class 6.1
Packing Group II
Special Provisions B3, IB2, T7, TP2
Description UN2922 Corrosive liquid, toxic, n.o.s.(3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II,
Emergency Response Guide Number 154

TDG

UN/ID no UN2922
Proper shipping name Corrosive liquid, toxic, n.o.s.
Hazard Class 8
Subsidiary class 6.1
Packing Group II
Description UN2922, Corrosive liquid, toxic, n.o.s. (3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II,

MEX

UN/ID no UN2922
Proper shipping name Corrosive liquid, toxic, n.o.s.
Hazard Class 8
Subsidiary class 6.1
Packing Group II
Description UN2922, Corrosive liquid, toxic, n.o.s. (3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II

ICAO (air)

UN/ID no UN2922
Proper shipping name Corrosive liquid, toxic, n.o.s.
Hazard Class 8
Subsidiary hazard class 6.1
Packing Group II
Special Provisions A3
Description UN2922, Corrosive liquid, toxic, n.o.s. (3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II

IATA

UN/ID no UN2922
Proper shipping name Corrosive liquid, toxic, n.o.s.
Hazard Class 8
Subsidiary hazard class 6.1
Packing Group II
ERG Code 8P
Special Provisions A3, A803
Description UN2922 Corrosive liquid, toxic, n.o.s.(3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II

IMDG

UN/ID no UN2922
Proper shipping name Corrosive liquid, toxic, n.o.s.
Hazard Class 8
Subsidiary hazard class 6.1
Packing Group II
EmS-No F-A, S-B

Special Provisions	274
Marine pollutant	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO
Description	UN2922 Corrosive liquids, toxic, n.o.s.(3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II, Marine Pollutant

RID

UN/ID no	UN2922
Proper shipping name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Packing Group	II
Classification code	CT1
Description	UN2922, Corrosive liquid, toxic, n.o.s. (3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II
Labels	6.1

ADR

UN/ID no	UN2922
Proper shipping name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Packing Group	II
Classification code	CT1
Tunnel restriction code	(E)
Special Provisions	274
Description	UN2922, Corrosive liquid, toxic, n.o.s. (3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II, (E)
Labels	8 + 6.1

ADN

Proper shipping name	Corrosive liquid, toxic, n.o.s.
Hazard Class	8
Packing Group	II
Classification code	CT1
Special Provisions	274, 802
Description	UN2922, Corrosive liquid, toxic, n.o.s. (3(2H)-Isothizolone, 2-octyl-), 8 (6.1), II
Hazard label(s)	8 + 6.1
Limited quantity (LQ)	1 L
Ventilation	VE02

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any

chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Propane-1,2-diol 57-55-6	X	-	X

U.S. EPA Label Information

EPA Pesticide Registration Number 67071-6-75506

Difference between SDS and EPA Pesticide label

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Corrosive

Corrosive - causes irreversible eye damage and skin burns

Causes skin burns

Cause moderate eye irritation.

May be Fatal if swallowed

Harmful if absorbed through skin.

Warning

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION
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NFPA	Health hazards 3	Flammability 1	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 3	Flammability 1	Physical hazards 0	Personal protection X

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Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief

at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet