

SAFETY DATA SHEET

Issue Date 19-Aug-2015

Revision Date 31-Mar-2016

Version 2

1. IDENTIFICATION

Product identifier

Product Name

Mold Inhibitor K-18500

Other means of identification

Product Code

23694

UN/ID no

UN2922

Registration Number(s)

EPA: 67071-5-75506

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 4 |
| Acute toxicity - Dermal | Category 4 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| 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

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Harmful if inhaled

May cause allergic skin reaction

Harmful if swallowed

Harmful in contact with skin



Physical state liquid

Odor Pungent

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 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
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific treatment (see first aid section on this label)
 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
 Call a POISON CENTER or doctor/physician if you feel unwell
 Wash contaminated clothing before reuse
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 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
 Call a POISON CENTER or doctor/physician if you feel unwell
 Immediately call a POISON CENTER or doctor/physician
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth
 Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

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

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 |
|-------------------|------------|----------|--------------|
| Magnesium Nitrate | 10377-60-3 | 16 - 21 | * |

| | | | |
|---------------------------------------|------------|------|--|
| 5-chloro-2-methyl-2H-isothiazol-3-one | 26172-55-4 | 10.6 | |
| 2-methyl-4-isothiazolin-3-one | 2682-20-4 | 3.5 | |

*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. |
| Inhalation | Remove to fresh air. Call a physician immediately. If not breathing, give artificial respiration. |
| Ingestion | If swallowed, call a poison control center or physician immediately. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. |

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

No information available.

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

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

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 Ensure adequate ventilation, especially in confined areas.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions See Section 12: ECOLOGICAL INFORMATION.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

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. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

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

Incompatible materials None known based on information supplied.

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 Goggles. Face protection shield.

Skin and body protection 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 | Pungent |
| Appearance | No information available | Odor threshold | No information available |
| Color | amber | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|---------------------------------------|----------------------|--------------------------------|
| pH | 1.9 - 3.0 | |
| Melting point / freezing point | -33 °C / -27 °F | |

| | |
|--------------------------------------|------------------------------|
| Boiling point / boiling range | 100 °C / 212 °F |
| Flash point | Not applicable |
| Evaporation rate | < 1.0 (n-butyl acetate == 1) |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure | No information available |
| Vapor density | 0.62 (Air = 1) |
| Relative density | 1.33 |
| Water solubility | Soluble in water |
| 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 | 77.0 F 16.02 CPS |
| Explosive properties | No information available |
| Oxidizing properties | No information available |

Other Information

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |
| Density | 11.09 lb/g |
| 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

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

| | |
|---------------------|--|
| Inhalation | Harmful by inhalation. Avoid breathing vapors or mists. |
| Eye contact | Causes serious eye damage. Avoid contact with eyes. |
| Skin contact | Causes burns. Toxic in contact with skin. May cause allergic skin reaction. Avoid contact with skin. |
| Ingestion | Harmful if swallowed. Do not taste or swallow. |

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------|------------------|------------------|-----------------|
| Magnesium Nitrate | >2000 mg/kg (RT) | >5000 mg/kg (RT) | - |

| | | | |
|---|------------------|------------------|---------------------|
| 10377-60-3 | | | |
| 5-chloro-2-methyl-2H-isothiazol-3-one 26172-55-4 | = 481 mg/kg (RT) | >1008 mg/kg (RT) | = 1.23 mg/L (RT) 4h |
| 2-methyl-4-isothiazolin-3-one 2682-20-4 | 120 mg/kg (RT) | 242 mg/kg (RBT) | 0.35 mg/L (RT) 4h |

Note:
RT = Rat
RBT = Rabbit
MSE = Mouse
GP = Guinea Pig

Information on toxicological effects

Symptoms No information available.

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

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---------------------------------|-------|----------|-----|------|
| Magnesium Nitrate 10377-60-3 | - | Group 2A | - | X |

Numerical measures of toxicity - Product Information

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

Numerical measures of toxicity

Oral LD50 457 mg/kg (rat)
Dermal LD50 660 mg/kg (rabbit)
Inhalation LC50 > 4.62 mg/l rat

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|--|------------------------------------|
| Magnesium Nitrate 10377-60-3 | 1700 mg/L EC50 72h (Nitzschia dubiformis) | 1378 mg/L LC50 96h (Poecilia reticulata) | 490 mg/L EC50 48h (Daphnia magna) |
| 5-chloro-2-methyl-2H-isothiazol-3-one 26172-55-4 | 0.018 mg/L EC50 72h (Pseudokirchneriella subcapitata) | 0.19 mg/L LC50 96h (Oncorhynchus mykiss) | 0.16 mg/L EC50 48h (Daphnia magna) |
| 2-methyl-4-isothiazolin-3-one 2682-20-4 | 0.0695 mg/L EC50 24h (Skeletonema costatum) | 0.07 mg/L LC50 96h (Oncorhynchus mykiss) | 0.18 mg/L EC50 48h (Daphnia magna) |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

| Chemical Name | Partition coefficient |
|---|-----------------------|
| 5-chloro-2-methyl-2H-isothiazol-3-one 26172-55-4 | 0.75 |

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 |

| Chemical Name | California Hazardous Waste Status |
|---------------------------------|-----------------------------------|
| Magnesium Nitrate 10377-60-3 | Ignitable Reactive |

14. TRANSPORT INFORMATION**DOT**

| | |
|--|--|
| UN/ID no | UN2922 |
| Proper shipping name | Corrosive liquids, toxic, n.o.s. |
| Hazard Class | 8 |
| Subsidiary class | 6.1 |
| Packing Group | II |
| Special Provisions | IB3, T7, TP1, TP28 |
| Description | UN2922, Corrosive liquids, toxic, n.o.s., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 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., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 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., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 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., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 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., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 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 | 223, 274 |
| Marine pollutant | This material meets the definition of a marine pollutant |
| Description | UN2922, Corrosive liquids, toxic, n.o.s., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8 (6.1), II |

RID**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., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8 (6.1), II |
| 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., [mixture containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one (3:1)], 8 (6.1), II |
| Hazard label(s) | 8 + 6.1 |
| Limited quantity (LQ) | 5 L |
| Ventilation | VE02 |

| |
|-----------------------------------|
| 15. REGULATORY INFORMATION |
|-----------------------------------|

International Inventories

| | |
|----------------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Does not comply |
| 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

| Chemical Name | SARA 313 - Threshold Values % |
|--------------------------------|-------------------------------|
| Magnesium Nitrate - 10377-60-3 | 1.0 |

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

U.S. EPA Label Information

EPA Pesticide Registration Number 67071-5-75506

EPA Statement

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:

Difference between SDS and EPA Pesticide label

Danger

Corrosive - causes irreversible eye damage and skin burns

Harmful if swallowed

May be Fatal if swallowed

MAY BE FATAL IF ABSORBED THROUGH SKIN

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 3 | Flammability 0 | Instability 0 | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 3 | Flammability 0 | Physical hazards 0 | Personal protection X |

Issue Date 19-Aug-2015

Revision Date 31-Mar-2016

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