

# SAFETY DATA SHEET MATE

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Ver 1.0 Effective Date: March 20, 2023

Printed Date: March 20, 2023

### SHERWOOD CORPORATION (THAILAND) PUBLIC COMPANY LIMITED

### **SECTION 1: IDENTIFICATION**

1.1 Product Description

Product Name MATE

Active Ingredients Seaweed Extract 16.00 %

L-Amino acid 4.00 % Folic acid 0.33 %

Benefit Control of plant growth and development.

1.2 Manufacturer and Distributors

Distributors Sherwood Corporation (Thailand) Public Company Limited
Address 1065 Srinakarin Road, Suanluang, Suanluang, Bangkok 10250, Thailand

Contact Tel. (+66) 2320-2288 Fax. (+66) 2320-2670

Website http://www.sherwood.co.th

1.3 Emergency telephone number

Emergency Contact Tel. (+66) 9-5957-4010

#### **SECTION 2: HAZARDS IDENTIFICATION**

**POTENTIAL ACUTE HEALTH** Will cause irritation of the digestive tract if swallowed. May cause eye

**EFFECTS** irritation.

**POTENTIAL CHRONIC** CARCINOGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA. **HEALTH EFFECTS** MUTAGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

TERATOGENIC EFFECTS: NONE by ACGIH, EPA, IARC, NTP, OSHA.

### **SECTION 3: INFORMATION ON INGREDIENTS**

		Exposure Limits (ACGIH)						
NAME	CAS #	TL V- TWA mg/m <sup>3</sup>	TL V- TWA ppm	STEL mg/m <sup>3</sup>	STEL ppm	CEIL mg/m <sup>3</sup>	CEIL ppm	% by Weight
N-acetyl-4-thiazolidin carboxylic acid	5025-82-1							1.66
Folic acid	59-30-3							0.33
Ascophyllum nodosum extract like								16.00

TOXICOLOGICAL DATA ON INGREDIENTS

N-acetyl-4-thiazolidin carboxylic acid

ORAL (LD50): Acute: 5000 mg/kg [Rat].



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**PUBLIC COMPANY LIMITED** 

Folic acid

ORAL (LD50): Acute: 2000 mg/kg [Rat].

### **SECTION 4: FIRST AID MEASURES**

**EYE CONTACT** : Immediately flush eyes with water for at least 15 minutes. Use warm water if

available. Get medical attention if irritation persists.

**MINOR SKIN CONTACT** : After skin contact wash with running water.

**EXTENSIVE SKIN CONTACT** : After skin contact wash immediately with plenty of water and non-abrasive

soap.

**MINOR INHALATION** : No medical attention needed.

**SEVERE INHALATION** : Allow to rest in a well ventilated area.

**SLIGHT INGESTION** : Irritating to the mouth, throat, stomach, digestive tract and bowels resulting

in nausea, vomiting and diarrhea. Have affected person drink several glasses

of water to assist in purging system. If the person is conscious, induce

vomiting. Seek medical attention.

**EXTENSIVE INGESTION** : No additional information.

### **SECTION 5: FIRE FIGHTING MEASURES**

THE PRODUCT IS : Non-flammable. **AUTO-IGNITION TEMPERATURE** : Not applicable.

**FLASH POINT** : Not applicable.

**FLAMMABILITY LIMITS** : Not applicable.

PRODUCTS OF COMBUSTION : Not applicable.

FIRE HAZARD IN THE PRESENCE : Not applicable.

**OF VARIOUS SUBSTANCES** 

**EXPLOSION HAZARD IN THE** : This substance is non-explosive.

PRESENCE OF VARIOUS

**SUBSTANCES** 

FIRE FIGHTING MEDIA AND : Material will not burn. As in any fire, wear MSHA/NIOSH approved

**INSTRUCTIONS** pressure-demand self-contained breathing apparatus, or equivalent and

full protective gear.

**SPECIAL REMARKS ON** 

: A self contained breathing apparatus should be used to avoid inhalation

**FIRE HAZARDS** of fumes.

SPECIAL REMARKS ON : No additional information.

**EXPLOSION HAZARDS** 



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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **SPILL**

: Use appropriate tools or equipment to place the spilled liquid in a suitable container for reuse or disposal. Flush or wash the contaminated surface.

Recover wash water and dispose of according to local and regional authority requirements.

: Stop leak if without risk.

### **SECTION 7: HANDLING AND STORAGE**

**PRECAUTIONS** 

: Avoid contact with skin and eyes. After handling, always wash hands thoroughly

with soap and water.

**STORAGE** 

: Keep container tightly closed. Store in a dry, cool and well ventilated area.

Keep away from food, drink and animal feeds. No direct sun light.

Keep out of reach of children.

### **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**ENGINEERING CONTROLS** 

: Use process enclosures, local exhaust ventilation.

PERSONAL PROTECTION

: The selection of personal protective equipment varies, depending upon conditions of use. Under well controlled conditions where no direct contact with the substance exists and exposures are below the occupational exposure limit, normal work clothing may suffice. However, protective clothing and appropriate respiratory protection must be available in the area in the event of emergency. Wear appropriate respirator when ventilation is inadequate. Where skin and eye contact may occur as a result of brief periodic exposures, wear clothing with long sleeves, coveralls, chemical resistant gloves, impervious chemical resistant jacket and pants, and safety glasses with side shields. A respiratory protection program that meets OSHA 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

**PERSONAL PROTECTION IN:** No further information.

**CASE OF LARGE RELEASE** 

**EXPOSURE LIMITS** 

: ACGIH TLV-TWA 5 mg/m<sup>3</sup>

Fed OSHA Permissible Exposure Limit: Table Z-1 8-hr

Time Weighted Avg: 15 mg/m<sup>3</sup>

MI OSHA Permissible Exposure Limit: 10 mg/m<sup>3</sup>

Federal, State and Provincial exposure limits may vary. Consult local officials for

acceptable exposure limits in your jurisdiction.



**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** 

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PHYSICAL STATE AND Liquid

**APPEARANCE** 

COLOR Greenish
ODOR Seaweed

**ODOR THRESHOLD** Not available.

**TASTE** Bitter

**MOLECULAR WEIGHT** Not available.

**pH** 6.5 - 7.5

**BOILING POINT** 110 C

**MELTING POINT** Not available.

**CRITICAL TEMPERATURE** Not available.

**SPECIFIC GRAVITY g/cc** 1.01-1.02

**BULK DENSITY kg/m³** 1010-1020 kg/m³

**VAPOR PRESSURE** Not available.

**VAPOR DENSITY** Not available.

**VOLATILITY** Not available.

**SOLUBILITY** Soluble in cold water and hot water.

**DISPERSION PROPERTIES** Not available.

**WATER/OIL DIST.** Not available.

COEFF.

### **SECTION 10: STABILITY AND REACTIVITY**

**STABILITY**: The product is stable.

**INSTABILITY TEMPERATURE**: Not available.

**CONDITIONS OF INSTABILITY**: No additional information.

**INCOMPATABILITY WITH** : The product is compatible to most agents.

**VARIOUS SUBSTANCES** 

**CORROSIVITY** : Non-corrosive in presence of aluminum or 304 stainless steel.

Non-corrosive in the presence of HDPE, PE, PVC.

SPECIAL REMARKS ON REACTIVITY: No additional remark.

SPECIAL REMARKS ON CORROSIVITY: No additional remark.



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### **SECTION 11: TOXICOLOGICAL INFORMATION**

SIGNIFICANT ROUTES OF

: Eye contact. Ingestion.

**EXPOSURE** 

**TOXICITY TO ANIMALS** 

: See Section II.

**SPECIAL REMARKS ON** 

: May be harmful to livestock and wildlife if ingested. Clean up all spilled

**TOXICITY TO ANIMALS** 

material. The product itself and its products of degradation are not

harmful.

OTHER EFFECTS ON HUMANS

: No additional information.

**SPECIAL REMARKS ON** 

: No additional remark.

**CHRONIC EFFECTS ON HUMANS** 

**SPECIAL REMARKS ON** 

: No additional remark.

**OTHER EFFECTS ON HUMANS** 

### **SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICITY** 

: Low toxicity for humans or animals under normal conditions of use.

May be harmful to livestock and wildlife if ingested. Clean up all spilled

material.

**BOD** and COD

: Not available.

**PRODUCTS OF DEGRADATION** 

: Possibly hazardous short term degradation products are not likely.

**TOXICITY OF THE PRODUCTS** 

: The products of degradation are less toxic than the product itself.

**OF DEGRADATION** 

SPECIAL REMARKS ON

: No additional remark.

THE PRODUCTS OF

**DEGRADATION** 

Reclaiming material may not be a viable.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL OR** 

: Recover spilled material and use for intended purpose.

**RECYCLING** 

#### **SECTION 14: TRANSPORT INFORMATION**

**DOT / TDG CLASSIFICATION** 

: Not controlled under TDG (Canada) or D.O.T. (U.S.A.)

**PIN and Shipping Name** 

: Not applicable.

**SPECIAL PROVISIONS FOR** 

: No additional remark.

**TRANSPORT** 



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**DOT (U.S.A) (Pictograms)** 



### **SECTION 15: REGULATORY INFORMATION**

OTHER REGULATIONS : OSHA: Hazardous by definition of Hazard Communication Standard

(29 CFR 1910.1200).

TSCA (Toxic Substance Control Act): This product is listed on the TSCA

Inventory.

OTHER CLASSIFICATIONS	HCS (U.S.A.)	HCS: Irritating substance.	
	DSCL (EEC)	R25- Toxic if swallowed.	
		R36/37/38- Irritating to eyes.	

**National Fire Protection** 

: Hazards presented under acute emergency

Association (U.S.A.)

conditions only:

Health 10

Fire Hazard Reactivity

Specific Hazard

**TDG (Pictograms - Canada)** 



**DSCL (Europe)** 

(Pictograms) : Not Available

No Disponible Pas Disponible

ADR (Europe)

(Pictograms) : Not Available

No Disponible
Pas Disponible

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### **SECTION 16: OTHER INFORMATION**

#### **REFERENCES**

- -Transportation of Dangerous Goods Act and Clear Language Regulations, current revision.
- -Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- -Domestic Substances List, Canadian Environmental Protection Act.
- -29 CFR Part 1910
- -33 CFR Parts 151, 153, 154, 156
- -40 CFR Parts 1-799
- -46 CFR Part 153
- -49 CFR Parts 1-199
- -American Conference of Governmental Industrial Hygienists, Threshold Limit Values for Chemical Substances, 2003.
- -NFPA 704, National Fire Codes Online, National Fire Protection Association, current edition At time of MSDS preparation.
- -Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers
- -TOMES® System: Heitland G & Hurlbut KM (Eds) (electronic version): MICROMEDEX, Greenwood Village, Colorado, USA. Available at: http://csi.micromedex.com (2004). The TOMES® System includes MEDITEXT® Medical Management; HAZARDTEXT® Hazard Management; INFOTEXT® Documents; ERG2000 Emergency Response Guidebook Documents; REPROTEXT®: Heitland G & Hurlbut KM (Eds); CHRIS Hazardous Chemical Data:

U.S.Department of Transportation, U.S. Coast Guard, Washington, D.C. (2004); HSDB: Hazardous Substances Data Bank. National Library of Medicine, Bethesda, Maryland (2004); IRIS: Integrated Risk Information System. U.S. Environmental Protection Agency, Washington, D.C. (2004); NIOSH: Pocket Guide to Chemical Hazards. National Institute for Occupational Safety and Health, Cincinnati, Ohio (2004); OHM/TADS: Oil and Hazardous Materials Technical Assistance Data System. U.S. Environmental Protection Agency, Washington, D.C. (2004); REPROTOX®: S cialli A.R. Georgetown University Medical Center and Reproductive Toxicology Center, Columbia Hospital for Women Medical Center, Washington, D.C. (2004); RTECS®: Registry of Toxic Effects of Chemical Substances. National Institute for Occupational Safety and Health, Cincinnati, Ohio (2004); and SHEPARDS: Shepard T.H.: Shepard's Catalog of Teratogenic Agents (2004).

-Michigan Office of Regulatory Reform R 325.51101et seq

OTHER SPECIAL CONSIDERATIONS

No additional information.



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