

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Identifier	Maduramicin
Product Number	M046
CAS Number	[79356-08-4]
EC Number	Not Available

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

Recommended Use	Research chemical, for <i>in vitro</i> use only.
Restrictions of Use	Not for human or animal use

1.3 Details of the supplier of the safety data sheet

Distributor Name	TOKU-E Company
Distributor Address	715 W Orchard Dr. Suite 3 Bellingham, WA 98225
Phone Number	(360)734-1789
E-mail Address	info@toku-e.com
Safety Data Sheet Issued by	TOKU-E Company (USA)

1.4 Emergency telephone number

Emergency Phone Number (International)	+1 (352) 353-3500
Emergency Phone Number (US Only)	1 (800) 535-5053

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification	Acute toxicity (Category 1, Dermal)
(Please refer to Section 16 for regulatory information)	Acute toxicity (Category 2, Oral)
	Serious eye irritation (Category 2B)

2.2 Label elements, including precautionary statements

GHS Label Elements:



Signal Word	Danger
Hazard Statements	
H300+H310	Fatal if swallowed or in contact with skin

H320 Causes eye irritation

Precautionary Statements

P262 Do not get in eyes, on skin, or on clothing.
P264 Wash hands/skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352 IF ON SKIN: Wash with plenty of water/soap
P305+P351+ P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment, see applicable response statements on this label
P330 Rinse mouth
P337+P313 IF eye irritation persists: Get medical advice/attention.
P361+P364 Take off immediately all contaminated clothing and wash it before reuse
P405 Store locked up.
P501 Dispose of contents/container in accordance with governmental regulation

2.3 Other hazards which do not result in classification

Hazards not otherwise classified (HNOC) by GHS No Data Available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonym(s)	alpha-Maduramicin, Maduramycin, X 14868A
Formula	$C_{47}H_{80}O_{17}$
Molecular Weight	917.1
CAS Number	[79356-08-4]
EC Number	Not Available
Hazardous Ingredients	Maduramicin (100%)

SECTION 4: FIRST-AID MEASURES

4.1 Description of first-aid measures

General Advice	Consult a doctor/physician if exposed - additional medical care may be required. Show this Safety Data Sheet to the medical provider.
If Inhaled	If inhaled, move to fresh air. If not breathing, give artificial respiration and immediately call local emergency telephone number.
In Case of Skin Contact	Wash skin thoroughly with soap and water.
In Case of Eye Contact	Flush eye with water. After initial flush, remove any contact lenses and continue flushing for at least 15 minutes.
If Swallowed	Rinse mouth with water. Immediately call a doctor, physician, or poison control center. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

Specific Treatment Please see Section 2 and Section 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
No Data Available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical, carbon dioxide

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Products Formed under fire conditions: carbon oxides

5.3 Advice for firefighters

Special Protective Equipment for Firefighters Wear self-contained breathing apparatus

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General Evacuate personnel to a safe location. Use appropriate personal protective equipment while in contact with product. Avoid dust formation. Ensure adequate ventilation.
Personal Precautions Prevent contamination of skin, eyes and clothing with appropriate protective equipment (Section 8). Wear respiratory protection.

6.2 Environmental precautions

General Recover waste, if possible, and place in suitable closed container for licensed disposal. Prevent spillage - do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

The recommended course of action is to treat any incident that involves the spill/release of a chemical substance as if it were hazardous in nature until the appropriate personnel have been consulted. Wear personal protective equipment as necessary. If accessible, use a spill kit. For powder spills, avoid generating dust during cleanup.

6.4 Reference to other sections

Refer to section 8 for exposure control.
Refer to section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Wear appropriate protective clothing/gear to prevent contact with skin and eyes. Provide exhaust ventilation or respiratory protection in areas where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities Store in a tightly closed container. Protect from humidity.

Incompatibilities No Data Available

7.3 Specific end use(s) Refer to section 1.2

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Contains no substance/substances with occupational exposure limit values

OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

8.2 Exposure controls

PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
PPE: Hand Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
PPE: Eye Protection	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
PPE: Skin and Body Protection	Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. When deemed needed according to the concentration and amount of this product, use a complete body suit

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	White solid
Odor	No Data Available
Odor Threshold	No Data Available
pH	No Data Available
Melting Point/Freezing Point	No Data Available
Initial Boiling Point and Range	No Data Available
Flash Point	No Data Available
Evaporation rate	No Data Available
Flammability (solid, gas)	No Data Available
Upper Flammability/Explosion Limit	No Data Available
Lower Flammability/Explosion Limit	No Data Available
Vapor Pressure	No Data Available
Vapor Density	No Data Available
Relative Density	No Data Available
Water Solubility	Poor water solubility
Solubility in Other Solvents	Soluble in ethanol, methanol, DMF, or DMSO
Partition Coefficient: n-octanol/water	No Data Available
Auto-Ignition Temperature	No Data Available
Decomposition Temperature	No Data Available
Viscosity	No Data Available
Explosive Properties	No Data Available
Oxidizing Properties	No Data Available
Optical Rotation	No Data Available
Absorbance (290nm, 5% in H ₂ O)	No Data Available
Water Content (Loss on Drying)	No Data Available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No Data Available
10.2 Chemical stability	Stable under recommended storage conditions
10.3 Possibility of hazardous reactions	No Data Available
10.4 Conditions to avoid	No Data Available
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	Formed under fire conditions: carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Oral LD ₅₀	Rat - 33 mg/kg Mouse - 35 mg/kg
Inhalation LC ₅₀	No Data Available
Dermal LD ₅₀	Rabbit - 5.3 mg/kg

Contaminated Packaging company.
Dispose of as unused product.

SECTION 14: TRANSPORTATION INFORMATION

DOT (US)	UN Number: UN3462 Class 6.1, Packing group I Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Maduramicin) Marine pollutant: No
IMDG	UN Number: UN3462 Class 6.1, Packing group I Proper shipping name: TOXINS, EXTRACTED FROM LIVING SOURCES, SOLID, N.O.S. (MADURAMICIN) EMS-no. F-A, S-A Marine pollutant: No
IATA	UN Number: UN3462 Class 6.1, Packing group I Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Maduramicin)

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 2/3: Hazards identification/labelling in accordance with OSHA 29 CFR 1910.1200

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.
SARA 311/312 Hazards	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312
Massachusetts Right to Know	No components are subject to the Massachusetts Right to Know Act
Pennsylvania Right to Know	No components are subject to the Pennsylvania Right to Know Act
New Jersey Right to Know	No components are subject to the New Jersey Right to Know Act
California Prop. 65 Components	No This product does not contain any chemicals known to the State of California to cause birth defects, cancer, or any other reproductive harm
EU Information	SDS in accordance with Regulation (EC) 1907/2006 A registration number is not available for this

substance or its uses are exempted from registration, or the registration is envisaged for a later registration deadline.
Information under Section 2, Hazard Identification, classification and labelling in accordance with Regulation (EC) 1272/2008
Information under Section 3, Hazardous components according to Regulation (EC) No 1272/2008

15.2 Chemical safety assessment

EU Information

For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

Revision Date: 2017-07-18

This safety data sheet represents TOKU-E Company's current understanding of the hazards associated with this product. The stated hazard information is based on existing experimental data and is not guaranteed to be all-inclusive. TOKU-E Company strives to maintain current and comprehensive safety information but recognizes that this safety data sheet may require revision as new information becomes available. TOKU-E Company shall not be held liable for damage or injury resulting from contact, handling, or storage of this product.