



## SAFETY DATA SHEET

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** MAX WEAR URETHANE 960 BASE

**PRODUCT CODES:** 960

**MANUFACTURER:** KRETETEK INDUSTRIES INC

**STREET ADDRESS:** 66 RIVER ROAD

**CITY, STATE, ZIP:** HUDSON NH 03051

**INFORMATION PHONE:** 855-573-8383

**EMERGENCY PHONE:** Chemtrec 800-424-9300

**FAX PHONE:** 855-573-8383

**DATE REVISED:** 2/1/23

**Chemical Name or Class:** Epoxy coating

### SECTION 2: HAZARDS IDENTIFICATION

Classification

Acute toxicity Oral: Category 4

Acute toxicity Inhalation(Vapors) : Category 3

Acute toxicity Inhalation(Dusts/Mists) : Category 4

Respiratory sensitization: Category 1

Skin sensitization: Category 1

Specific target organ toxicity (single exposure): Category 3

Appearance: Clear

Physical state Liquid

Odor: Odorless

GHS Label elements, including precautionary statements

Danger

Hazard statements

Harmful if swallowed

Toxic if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction

May cause respiratory irritation



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the

workplace Wear protective gloves

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Unknown acute toxicity:

99.8 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

99.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### SECTION 3: COMPOSITION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

28182-81-2	Polyhexamethylene Diisocyanate	99.8%
822-06-0	Hexamethylene diisocyanate	0.2%

### SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation: May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical advice/attention. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Immediate medical attention is required.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact: Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. May produce an allergic reaction. Get immediate medical advice/attention.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not breathe vapor or mist.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Note to physicians: May cause sensitization in susceptible persons. Treat symptomatically.

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

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical: Product is or contains a sensitizer. May cause sensitization by inhalation and skin contact.

Hazardous Combustion Products: Carbon oxides

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge: None

Special protective equipment for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Do not breathe the vapor or mist.

Other Information: Refer to protective measures listed in Sections 7 and 8.

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. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## **SECTION 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. Provide extract ventilation to points where emissions occur. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Do not breathe the vapor or mist. Handle product only in closed system or provide appropriate exhaust ventilation

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

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

Control parameters

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment Eye/face protection Tight sealing safety goggles.

Hand protection: Wear suitable gloves.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations: Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Clear

Odor: Odorless

Color: No information available

Odor Threshold: No information available

Property	pH	Values	Remarks	Method
Melting / freezing point	Boiling point	UNKNOWN		
/ boiling range	Flash Point	No data available	None known	
Evaporation Rate		285 ° C / 545 ° F 203 C / 397 F		
		No data available	None known	
Flammability (solid, gas)		No data available	None known	
Flammability Limit in Air			None known	
Upper flammability limit		No data available		
Lower flammability limit		No data available		
Vapor pressure		No data available	None known	
Vapor density		No data available	None known	
Relative density	Water Solubility	1.15		
Solubility(ies)		Insoluble	None known	
		No data available		

Partition coefficient: n-octanol/water Not Applicable

Autoignition temperature No data available

Decomposition temperature No data available

Kinematic viscosity No data available

Dynamic viscosity No data available

Other Information

Explosive properties No information available

Oxidizing properties No information available

Softening Point No information available

Molecular Weight No information available

VOC Content (%) No information available

Liquid Density No information available

Bulk Density No information available

Particle Size No information available

Particle Size Distribution No information available

## SECTION 10: HANDLING AND STORAGE

Reactivity: No information available.

Chemical stability: Stable under normal conditions. Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur. Conditions to avoid Excessive heat.

Incompatible materials: None known based on information supplied.

Hazardous Decomposition Products Carbon oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation: Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). Toxic by inhalation. May cause irritation of respiratory tract.

Eye contact: Specific test data for the substance or mixture is not available.

Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components).

May cause sensitization by skin contact.

Specific test data for the substance or mixture is not available. May cause additional effects as listed under "Inhalation".

Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing.

Coughing and/ or wheezing. Itching. Rashes. Hives. Difficulty in breathing.

Numerical measures of toxicity

Acute Toxicity

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

ATEmix (oral)	501.00 mg/kg ATEmix (inhalation-gas)	700.00 ppm ATEmix (inhalation-dust/mist)
	4.55 mg/L ATEmix (inhalation-vapor)	3.00 mg/L

Unknown acute toxicity

99.8 % of the mixture consists of ingredient(s) of unknown toxicity 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

99.8 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

99.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

99.8 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information:

Polyhexamethylene Diisocyanate

Inhalation LC50: 18500 mg/m<sup>3</sup> ( Rat ) 1 h

Hexamethylene diisocyanate

Oral LC50: 738 mg/kg ( Rat )

Dermal LD50: 593 mg/kg ( Rabbit )

Inhalation LC50: 0.06 mg/L ( Rat ) 4 h

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

Skin corrosion/irritation: No information available.

Serious eye damage/eye irritation: No information available.

Respiratory or skin sensitization: May cause sensitization by inhalation. May cause sensitization by skin contact.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity No information available.

STOT - single exposure: May cause respiratory irritation.

STOT - repeated exposure: No information available.

Aspiration hazard: no information available.

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: The environmental impact of this product has not been fully investigated.

Polyhexamethylene Diisocyanate

Toxicity to Fish: 96h LC50: = 26.1 mg/L (Brachydanio rerio)

Toxicity to Microorganisms: EC50 = 15.7 mg/L 30 min EC50 = 25.5 mg/L 15 min EC50 = 53.2 mg/L 5 min

Persistence and Degradability: No information available.  
Bioaccumulation: There is no data for this product.  
Mobility: No information available.  
Other adverse effects: No information available.

## SECTION 13: WASTE DISPOSAL

Waste treatment methods:

Waste from residues/unused products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers

California Waste Codes; 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

## SECTION 14: TRANSPORTATION INFORMATION

### DOT

Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	ORM-D
Description	CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number	171

### IATA

UN-No.	UN3802
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class	9
Packing Group	III
ERG Code	9L
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III

### IMDG/IMO

UN-No.	UN3802
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Hazard Class
	9
Packing Group	III
EmS-No.	F-A, S-F
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III,
	MARINE POLLUTANT

## SECTION 15: REGULATORY INFORMATION

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.

EINECS/ELINCS Contact supplier for inventory compliance status.

ENCS Contact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.

PICCS Contact supplier for inventory compliance status.

AICS Contact supplier for inventory compliance status.

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

Chemical Name: Hexamethylene diisocyanate - 822-06-0 Weight 0.2% 13-Threshold Values: 1.0%

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name: Hexamethylene diisocyanate – Hazardous Substances RQs: 100lb RQ: RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations:

Hexamethylene diisocyanate 822-06-0: NJ, MA, RI, IL

## **SECTION 16: DISCLAIMER**

Disclaimer: the information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

# SAFETY DATA SHEET

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** MAX WEAR URETHANE 960 ACTIVATOR

**PRODUCT CODES:** 960

**MANUFACTURER:** KRETETEK INDUSTRIES INC

**STREET ADDRESS:** 66 RIVER ROAD

**CITY, STATE, ZIP:** HUDSON NH 03051

**INFORMATION PHONE:** 855-573-8383

**EMERGENCY PHONE:** Chemtrec 800-424-9300

**FAX PHONE:** 855-573-8383

**DATE REVISED:** 2/1/23

**Chemical Name or Class:** Epoxy coating

## SECTION 2: HAZARDS IDENTIFICATION

Classification

Acute toxicity-Oral: Category 3

Acute toxicity-Dermsl: Category 3

Germ cell mutagenicity: Category 2

Reproductive toxicity: Category 1B

Specific target organ toxicity (repeated exposure): Category 1

Flammable liquids: Category 4

Corrosive to metals: Category 1

Appearance: yellow-orange

Physical state Liquid

Odor: Slight

GHS Label elements, including precautionary statements

Danger

Hazard statements

Toxic if swallowed

Toxic in contact with skin

Suspected of causing genetic defects

May damage fertility or the unborn child

Causes damage to organs through prolonged or repeated exposure

Combustible Liquid

May be corrosive to metals



Precautionary Statements - Prevention

Obtain special instructions before use



Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray  
Keep away from flames and hot surfaces. - No smoking Keep only in original container

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

Skin

IF ON SKIN: Wash with plenty of water and soap Call a POISON CENTER or doctor if you feel unwell

Take off immediately all contaminated clothing and wash it before reuse

Ingestion

IF SWALLOWED: Immediately call a POISON CENTER or doctor Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam to extinguish

Spill

Absorb spillage to prevent material damage

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep cool

Store in corrosion resistant container with a resistant inner liner

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

Toxic to aquatic life with long lasting effects.

Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity 97 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

97 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### SECTION 3: COMPOSITION ON INGREDIENTS

Chemical characterization: Mixtures

Description: Mixture: consisting of the following components.

106-65-0	Dimethyl succinate	12.4%
1119-40-0	Dimethyl glutarate	12.4%
77-58-7	Dibutyltin dilaurate	3

### SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Inhalation: Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.

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Self-protection of the first aider. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

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

Extinguishing media;

Suitable extinguishing agents: Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.

Large fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical: Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

Hazardous Combustion Products: Carbon oxides

Explosion Data: Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: Yes

Special protective equipment for fire-fighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## **SECTION 6: RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material.

Other Information: Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## **SECTION 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. Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

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

Control parameters

Exposure Limits:

Chemical Name: Dimethyl succinate

ACGIH TLV: STEL: 0.2 mg/m<sup>3</sup> Sn TWA: 0.1 mg/m<sup>3</sup> Sn S\*

OSHA PEL: TWA: 0.1 mg/m<sup>3</sup> Sn (vacated) TWA: 0.1 mg/m<sup>3</sup> Sn (vacated) S\*

NIOSH IDLH: IDLH: 25 mg/m<sup>3</sup> Sn TWA: 0.1 mg/m<sup>3</sup> except Cyhexatin Sn

Chemical Names: Dibutyltin dilaurate

Alberta: TWA: 0.1 mg/m<sup>3</sup> STEL: 0.2 mg/m<sup>3</sup> Skin

British Columbia: TWA: 0.1 mg/m<sup>3</sup> STEL: 0.2 mg/m<sup>3</sup> Skin Ontario TQAEV: TWA: 0.005 ppm CEV: 0.02 ppm

Ontario: TWA: 0.1 mg/m<sup>3</sup> STEL: 0.2 mg/m<sup>3</sup> Skin

Quebec: TWA: 0.1 mg/m<sup>3</sup> STEL: 0.2 mg/m<sup>3</sup> Skin

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls Engineering controls

Showers

Eyewash stations

Ventilation systems.

Individual protection measures, such as personal protective equipment Eye/face protection Tight sealing safety goggles.

Hand protection: Wear suitable gloves. Impervious gloves.

Skin and body protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Respiratory protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations: Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Appearance	Odor	Liquid
Color			Yellow-orange Slight
Odor Threshold			No information available No data available

Property	pH	Values	Remarks	Method
Melting / freezing point		UNKNOWN		
		No data available		None known
Boiling point / boiling range	Flash	No data available		None known
Point		77 C / 171 F		
Evaporation Rate		No data available		None known
Flammability (solid, gas)		No data available		None known
Flammability Limit in Air				None known
Upper flammability limit		No data available		
Lower flammability limit		No data available		
Vapor pressure		No data available		None known
Vapor density		No data available		None known
Relative density	Water	Solubility1.054		
Solubility(ies)		Insoluble in water	No data available	None known

Partition coefficient: n-octanol/waterNot Applicable

Autoignition temperature No data available None known

Decomposition temperature No data available None known

Kinematic viscosityNo data available None known

Dynamic viscosity No data available None known

Other Information

Explosive properties No information available

Oxidizing properties No information available  
Softening Point No information available  
Molecular Weight No information available  
VOC Content (%) No information available  
Liquid Density No information available  
Bulk Density No information available  
Particle Size No information available  
Particle Size Distribution No information available

## SECTION 10: HANDLING AND STORAGE

Reactivity: No information available.

Chemical stability Stable under normal conditions. Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to avoid Exposure to air or moisture over prolonged periods. Heat, flames and sparks.

Incompatible materials: Oxidizing agent.

Hazardous Decomposition Products Carbon oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation: Specific test data for the substance or mixture is not available.

Eye contact: Specific test data for the substance or mixture is not available.

Skin contact: Specific test data for the substance or mixture is not available. Toxic in contact with skin. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics Symptoms: No information available.

Numerical measures of toxicity

Acute Toxicity

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

ATEmix (oral) 100.00 mg/kg

ATEmix (dermal) 630.00 mg/kg

Unknown acute toxicity

100 % of the mixture consists of ingredient(s) of unknown toxicity 97 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

97 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Dimethyl succinate

Oral LC50: > 5 g/kg ( Rat )

Dermal LD50: > 5 g/kg ( Rabbit )

Dimethyl glutarate

Oral LC50: > 5000 mg/kg ( Rat )

Dermal LD50: > 5000 mg/kg ( Rabbit )

Inhalation LC50: > 5.6 mg/L ( Rat ) 4 h

Dibutyltin dilaurate

Oral LC50: = 175 mg/kg ( Rat ) = 45 mg/kg ( Rat )

Dermal LD50: = 630 mg/kg ( Rabbit )

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

Skin corrosion/irritation: No information available.

Serious eye damage/eye irritation: No information available.

Respiratory or skin sensitization: No information available.

Germ cell mutagenicity: Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects.

Carcinogenicity: No information available.

Reproductive toxicity: Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child.

STOT - single exposure: No information available.

STOT - repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard: No information available.

## SECTION 12: ECOLOGICAL INFORMATION

Marine Pollutant: This product contains a chemical which is listed as a severe marine pollutant according to DOT

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Dimethyl succinate

Toxicity to Fish: 96h LC50: 50 – 100 mg/L (Brachydanio rerio)

Dimethyl glutarate

Toxicity to Fish: 96h LC50: 19.6 - 26.2mg/L (Pimephales promelas)

Toxicity to Magna (Water Flea): 48h EC50: 122.1 - 163.5mg/L (Daphnia magna)

Dibutyltin dilaurate

Toxicity to Fish: 48h LC50: = 2 mg/L (Oryzias latipes)

Toxicity to Microorganisms: EC50 = 0.576 mg/L 30min

Persistence and Degradability: No information available.

Bioaccumulation: There is no data for this product.

Mobility: No information available.

Chemical name: Dimethyl succinate Log Pow 0.19

Other adverse effects: No information available.

## SECTION 13: WASTE DISPOSAL

Waste treatment methods:

Waste from residues/unused products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers

California Waste Codes; 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

## SECTION 14: TRANSPORTATION INFORMATION

DOT

Proper Shipping Name: CONSUMER COMMODITY

Hazard Class: ORM-D

Description: CONSUMER COMMODITY, ORM-D

This product contains a chemical which is listed as a severe marine pollutant according to DOT IATA

IATA

UN-No. UN2735

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.

Hazard Class: 8

Packing Group: III

ERG Code: 8L

Description: UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (DIMETHYL GLUTARATE, DIMETHYL SUCCINATE), 8, III

IMDG/IMO

UN-No. UN2735

Proper Shipping Name: POLYAMINES, LIQUID, CORROSIVE, N.O.S.

Hazard Class: 8

Packing Group: III

EmS-No. F-A, S-B

Marine Pollutant: This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO

Description: UN2735, POLYAMINES, LIQUID, CORROSIVE, N.O.S. (DIMETHYL SUCCINATE, CYCLOHEXANEMETHANAMINE, 1,3,3-TRIMETHYL-N-(2-METHYLPROPYLIDENE)-5-[(2-METHYLPROPYLIDENE)AMINO]-), 8, III, MARINE POLLUTANT

## SECTION 15: REGULATORY INFORMATION

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA Contact supplier for inventory compliance status.

DSL/NDSL Contact supplier for inventory compliance status.

EINECS/ELINCS Contact supplier for inventory compliance status.

ENCS Contact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.

PICCS Contact supplier for inventory compliance status.

AICS Contact supplier for inventory compliance status.

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

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

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

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

## **SECTION 16: DISCLAIMER**

Disclaimer: the information contained herein is based on the data available and is believed to be accurate, however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.