

# **SECTION 1: PRODUCT IDENTIFICATION**

PRODUCT NAME ET-VC™
PRODUCT CODE 2819

PRODUCT CODE 281 SUPPLIER ME

JPPLIER MEDISCA Inc.

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EMERGENCY PHONE CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300

NSW Poisons Information Centre: 131 126

National Chemical Emergency Centre 44(0)1235239670

RECOMMENDED USES Manufacturing and Compounding

RESTRICTIONS ON USE Not applicable

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

GHS CLASSIFICATION

PICTOGRAM

Eye Irritation (Category 2A)



SIGNAL WORD

HAZARD STATEMENT(S)

HMIS CLASSIFICATION

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL

EFFECTS

PRECAUTIONARY STATEMENT(S)

Warning

Causes serious eye irritation.

Repeated exposure may cause skin dryness or cracking.

**Prevention** Wear eye and face protection.

Wash hands thoroughly after handling. Do not touch eyes.

Response IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists, get medical help.

Storage Not applicable

**Disposal** Not applicable

Health Hazard 1 Flammability 1

Reactivity 0 Personal Protection A

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME 3-O-Ethyl ascorbic acid

BOTANICAL NAME Not applicable

SYNONYM L-Ascorbic acid, 3-Oethyl-

CHEMICAL FORMULA

CHEMICAL FAMILY

CAS NUMBER

ALTERNATE CAS NUMBER

Not applicable

86404-04-8

Not applicable

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MOLECULAR WEIGHT 204.177

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
3-O-ETHYL ASCORBIC ACID	86404-04-8	617-849-3	100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

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

IN CASE OF EYE CONTACT Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek

medical aid.

IN CASE OF SKIN CONTACT

Wash with soap & water for 15 minutes. If irritation persists seek medical aid.

IF SWALLOWED Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.

IF INHALED Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

physician

MEDICAL ATTENTION AND SPECIAL

TREATMENT

COMPOSITION

SYMPTOMS CAUSED BY EXPOSURE

Get emergency medical help.

Not expected to present a significant hazard under anticipated conditions of normal use.

### **SECTION 5: FIREFIGHTING MEASURES**

SPECIFIC HAZARDS ARISING FROM

THE CHEMICAL

Not applicable

FLAMMABLE PROPERTIES

May be combustible at high temperature

HAZARDOUS COMBUSTION PRODUCTS

Under fire conditions, hazardous fumes will be present.

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

**Small fire:** dry chemical, CO<sub>2</sub> or water spray. **Large fire:** dry chemical, CO<sub>2</sub>, alcohol resistant foam or water spray. Do not get water inside containers.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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

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PERSONAL PRECAUTIONS Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR

CONTAINMENT

**CLEANUP PROCEDURE** 

On land, sweep or shovel into suitable containers. Minimize generation of dust.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean

the affected area. Do not flush into sewerage system or to drains.

**REFERENCE TO OTHER SECTIONS**See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

PRECAUTIONS FOR SAFE HANDLING Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash

thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use

appropriate containment to avoid environmental contamination.

CONDITIONS FOR SAFE STORAGE Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in

accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid

environmental contamination.

STORAGE CONDITIONS Store in original container, tightly sealed, protected from direct sunlight and moisture.

Sensitive to moisture, it is best to use entire content after opening.

### SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### 

	Country	Limit valu	ie-8 hours	Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

N/L = Not listed; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable

fraction: 5 mg/m3



PERSONAL PROTECTIVE EQUIPMENT Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's

> eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a

thermal hazard, appropriate Personal Protective Equipment should be used.

SPECIFIC ENGINEERING CONTROLS

Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.

**BIOLOGICAL MONITORING** Not available **CONTROL BANDING** Not available

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE

DESCRIPTION White crystalline, hygroscopic powder, with a characteristic odor.

SOLUBILITY Soluble in water. ODOR Characteristic odor

FLAMMABILITY	May be combustible at hig	May be combustible at high temperature								
AUTO-IGNITION TEMPERATURE	Not available	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	Not available					
EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	>93 °C, >199.4 °F					
log P (OCTANOL-WATER)	Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	(112-116)°C, (233.6-240.8)°F					
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	рН	3.50 - 5.00 (3%)					
RELATIVE DENSITY	1.41 g/cm <sup>3</sup>	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/	Not available					

(WATER = 1)

**EXPLOSIVE LIMIT(S)** 

VAPOR DENSITY

(AIR = 1)

**VAPOR PRESSURE** 

Not available

VISCOSITY

Not available

The physical data presented above are typical values and should not be construed as a specification.

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

REACTIVITY Not established

Not available

CHEMICAL STABILITY Stable under recommended storage conditions.

INCOMPATIBLE MATERIALS Strong oxidants.



HAZARDOUS DECOMPOSITION

**PRODUCTS** 

HAZARDOUS POLYMERIZATION POSSIBLITY OF HAZARDOUS

REACTION

CONDITIONS TO AVOID

Not established

Will not occur.

Moisture, sunlight and extreme temperatures.

### SECTION 11: TOXICOLOGICAL INFORMATION

Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur.

**ACUTE TOXICITY** Oral: Rat: LD50: (mg/kg): 5900

> Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available

SKIN CORROSION/IRRITATION Based on available data, the classification criteria are not met.

(Human patch test, dilution at 2%) No irritant effect.

SERIOUS EYE DAMAGE/EYE

**IRRITATION** 

Based on available data, the classification criteria are not met.

(in-vitro HETCAM test, dilution at 3%, moderately irritant) Irritating effect.

RESPIRATORY SENSITIZATION Based on available data, the classification criteria are not met.

SKIN SENSITIZATION Based on available data, the classification criteria are not met.

**GERM CELL MUTAGENICITY** Due to lack of data the classification is not possible.

CARCINOGENICITY **OSHA** 3-O-ETHYL ASCORBIC ACID is not listed.

NTP 3-O-ETHYL ASCORBIC ACID is not listed. **IARC** 3-O-ETHYL ASCORBIC ACID is not evaluated

California This product does not contain any chemicals known to the State of California to cause

Proposition 65 cancer, birth defects, or any other reproductive harm.

ADDITIONAL CARCINOGENICITY

INFORMATION

Due to lack of data the classification is not possible.

REPRODUCTIVE TOXICITY

SPECIFIC TARGET ORGAN TOXICITY -

SINGLE EXPOSURE

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

SPECIFIC TARGET ORGAN TOXICITY -

REPEATED EXPOSURE

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible.

ASPIRATION HAZARDS

**EXPOSURE** 

SIGNS AND SYMPTOMS OF

**ROUTES OF EXPOSURE:** 

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Not available

Not expected to present a significant hazard under anticipated conditions of normal use.

POTENTIAL HEALTH EFFECTS May be harmful if inhaled. May cause respiratory tract irritation. Inhalation

> Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Causes serious eye irritation. Eyes



## **SECTION 12: ECOLOGICAL INFORMATION**

**ECOTOXICITY** EC50: 48 Hr: Crustacea: Daphnia: (mg/L): >100

LC50: 96 Hr: Fish: (mg/L): Not available

EC50: 72 Hr: Algae: (mg/L): >100

PERSISTENCE AND DEGRADABILITY Inherently biodegradable.

Degrades 35%, 28 days (30% 10-days window) in the manometric respirometry test (OECD 301F).

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not BIOACCUMULATIVE POTENTIAL

expected.

Miscible in water, it is expected to be mobile within the environment. MOBILITY IN SOIL

Adsorption to solid soil is not expected.

OTHER ADVERSE EFFECTS

This product is not intended to be released into the environment

# **SECTION 13: DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS** Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

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

UN PROPER SHIPPING NAME Not dangerous good

**UN NUMBER** Not applicable **CLASS** Not applicable PACKING GROUP Not applicable

<u>AUSTRALIA</u>

**HAZCHEM** Not applicable

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE

**IBC CODE** 

Not Listed

**ENVIRONMENTAL HAZARDS** Not available SPECIAL SHIPPING INFORMATION Not applicable

# **SECTION 15: REGULATORY INFORMATION**

#### UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CFR Part 355 Appendix A Appendix B		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
3-O-ETHYL ASCORBIC ACID, 86404-04-8	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L



N/L = Not Listed; X = Listed

#### **AUSTRALIAN REGULATIONS**

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
3-O-ETHYL ASCORBIC ACID, 86404-04-8	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

#### **EU REGULATIONS**

Chemical Name & CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
3-O-ETHYL ASCORBIC ACID, 86404-04-8	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

Any EU regulation not listed above is not applicable to this product.

SUBJECT TO INTERNATIONAL

**AGREEMENT** 

Not applicable

## **SECTION 16: OTHER INFORMATION**

#### REFERENCES

### ABBREVIATIONS AND ACRONYMS

#### Available upon request

ACGIH - American Conference of Governmental Industrial Hygienists; AIHA WEEL - American Industrial Hygiene Association Workplace Environment Exposure Levels; CAESAR - Computer Assisted Evaluation of industrial chemical Substances According to Regulations; CAS - Chemical Abstract Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; EC50 - Effective Concentration, 50%; EPA - Environmental Protection Agency; GHS - Global Harmonized System; HMIS - Hazardous Materials Information System; HSE - Health and Safety Executive; HSIS - Hazardous Substances Information System; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IRFMN - Ready Biodegradability Model; ISS - Instituto Superiore Sanità; LC50 - Lethal Concentration, 50%; LD50 - Lethal Dose, 50%; MSHA - Mine Safety and Health Administration; NIOSH - National Institute for Occupational Safety and Health; NTP - National Toxicology Program; OSHA PEL - Occupational Safety & Health Administration Permissible Exposure Limits; QSAR - Quantitative Structure-activity relationship; REL - Recommended Exposure Limit; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TLV - Threshold Limit Value; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System

LAST REVISION
SUPERSEDES

02/2023

02/2021

For a list of changes to the SDS since the last version, please communicate with MEDISCA at <a href="https://www.medisca.com">www.medisca.com</a>



**DISCLAIMER** 

This document was created in accordance with OSHA, Safe Work Australia and WHMIS regulations. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MEDISCA® shall not be held liable for any damage resulting from handling or from contact with the above product. Recipients of the product must take responsibility for observing existing laws and regulations.

SUPPLEMENTARY INFORMATION

For all country specific requirements not outlined on this Safety Data Sheet, please request Supplementary Page to this Safety Data Sheet.

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