

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	ACETIC ACID, USP (Glacial)
PRODUCT CODE	0582
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 626 Tom Miller Road, Plattsburgh, NY, 12901 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020
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	Pharmaceutical Manufacturing
RESTRICTIONS ON USE	Not applicable

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Acute Toxicity - Oral (Category 5) Acute Toxicity - Dermal (Category 4) Acute Toxicity - Inhalation (Category 4) Flammable Liquid (Category 3) Eye Damage (Category 1) Skin Corrosion (Category 1A) Acute Aquatic Toxicity (Category 3) Corrosive to metals (Category 1)
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PICTOGRAM**SIGNAL WORD**

Danger

HAZARD STATEMENT(S)

May be harmful if swallowed
Harmful if in contact with skin
Harmful if inhaled
Flammable liquid and vapor
Causes serious eye damage
Causes severe skin burns and eye damage
Harmful to aquatic life
May be corrosive to metals

**ADVERSE PHYSIOCHEMICAL,
HUMAN HEALTH AND
ENVIRONMENTAL EFFECTS
PRECAUTIONARY STATEMENT(S)**

Corrosive to the respiratory tract.

Prevention

Wash hands thoroughly after handling. Do not touch eyes.
Do not get in eyes, on skin, or on clothing
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/ vapors/spray.
Use only outdoors or in a well-ventilated area.
Keep away from heat, sparks, open flames and/or hot surfaces - No smoking.
Keep container tightly closed.
Ground/Bond container and receiving equipment.
Use explosion-proof equipment.
Use only non-sparking tools.
Take action to prevent static discharges.
Wear protective gloves, protective clothing, eye protection and face protection.
Avoid release to the environment.
Keep only in original container.

Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical help.
IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Immediately rinse skin with water for several minutes. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately; Immediately call a poison center or medical professional.
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help; Immediately call a poison center or medical professional.
IN CASE OF FIRE: Powder, alcohol-resistant foam, water spray, carbon dioxide. In case of fire: keep drums, etc., cool by spraying with water.
Absorb spillage to prevent material damage.

Storage

Store locked up.
Store in a well-ventilated place.
Store in corrosive resistant containers with a resistant inner liner.
Keep container tightly closed.
Keep cool.

Disposal

Dispose of contents and/or container in accordance with local regulations.

HMIS CLASSIFICATION
Health Hazard

3

Flammability

2

Reactivity

0

Personal Protection

H

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS
CHEMICAL NAME

Glacial Acetic Acid

BOTANICAL NAME

Not applicable

SYNONYM

Methanecarboxylic acid; Ethanoic acid

CHEMICAL FORMULA

C₂H₄O₂

CHEMICAL FAMILY

Organic acid

CAS NUMBER

64-19-7

ALTERNATE CAS NUMBER

Not applicable

MOLECULAR WEIGHT

60.0516

COMPOSITION

CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
ACETIC ACID	64-19-7	200-580-7	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

Get emergency medical help.

SYMPTOMS CAUSED BY
EXPOSURE

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

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING
FROM THE CHEMICAL

Above 39°C explosive vapour/air mixtures may be formed.
Risk of fire and explosion on contact with strong oxidants.

FLAMMABLE PROPERTIES

Flammable liquid and vapor

HAZARDOUS COMBUSTION
PRODUCTS

Under fire conditions, hazardous fumes will be present.

SUITABLE & UNSUITABLE
EXTINGUISHING MEDIA

Small fire: dry chemical, CO₂ or water spray.

Large fire: dry chemical, CO₂, alcohol resistant foam or water spray. Do not get water inside containers.
Above 39°C use a closed system, ventilation, and explosion-proof electrical equipment.
In case of fire: keep drums, etc., cool by spraying with water.

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

PERSONAL PRECAUTIONS

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

METHODS & MATERIAL FOR
CONTAINMENT

Collect leaking liquid in sealable containers. Cautiously neutralize spilled liquid with sodium carbonate only under the responsibility of an expert. Wash away remainder with plenty of water (extra personal protection: chemical protection suit including self-contained breathing apparatus).

Liquid form, for small quantities, absorb on paper towels. Large quantities can be collected and atomized in suitable combustion chamber, or diluted, neutralized & flushed into a sewer.

CLEANUP PROCEDURE

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. Perform the heating procedure (if required) in a ventilated area, away from chemicals incompatible with this product. For safety purposes, always make sure to release caps or seals prior to heating to reduce pressure build up.

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.

The freezing point of ACETIC ACID, USP (Glacial) is 16.6 °C (61.88 °F). Product is not affected by cycling between freezing and thawing conditions as long as label directions are followed.

Product can be left at room temperature or in a controlled-temperature water bath to thaw. Gently stir or tumble the container to ensure it is homogenous.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: ACETIC ACID CAS #: 64-19-7

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m ³	ppm	mg/m ³				
OSHA	USA	10	25	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	10	N/L	15	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	10	25	15(1)	37(1)	N/L	N/L	N/A	(1) 15 minutes average value
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	10	25	15	37	N/L	N/L	N/A	N/A
HSE	UK	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Austria	10(1)	25(1)	20(1)(2)	50(1)(2)	N/L	N/L	N/A	(1) Indicative Occupational Exposure Limit Values (2) Ceiling limit value (5 minutes)

GESTIS	Belgium	10	25	15(1)	38(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Canada-Ontario	10	N/L	15	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada-Quebec	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	Denmark	10	25	20	50	N/L	N/L	N/A	N/A
GESTIS	European Union	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value; Indicative Occupational Exposure Limit Value (IOELV)
GESTIS	Finland	5	13	10(1)	25(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	France	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value; Indicative statutory limit values
GESTIS	Germany-AGS	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Germany-DFG	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Hungary	N/L	25	N/L	25	N/L	N/L	N/A	N/A
GESTIS	Ireland	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Italy	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Japan (JSOH)	10	25	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	New Zealand	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	Norway	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	China	N/L	10	N/L	20(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Poland	N/L	25	N/L	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Romania	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Singapore	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	South Korea	10	25	15	37	N/L	N/L	N/A	N/A
GESTIS	Spain	10	25	20(1)	50(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Sweden	5	13	10(1)	25(1)	N/L	N/L	N/A	(1) 15 minutes average value
GESTIS	Switzerland	10	25	20	50	N/L	N/L	N/A	N/A
GESTIS	Turkey	10	25	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. AVOID ALL CONTACT!

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

NOTES

A harmful contamination of the air can be reached rather quickly on evaporation of this substance at 20°C.

Skin: Prevent skin contact (>10%)
 Eyes: Prevent eye contact
 Wash skin: When contaminated (>10%)
 Remove: When wet or contaminated (>10%)
 Change: No recommendation
 Provide: Eyewash (>5%), Quick drench (>50%)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE

Liquid

DESCRIPTION

Clear, colorless liquid, having a pungent, characteristic odor.

SOLUBILITY

Miscible with water, with alcohol, and with glycerin.

ODOR

Pungent characteristic odor

FLAMMABILITY

Flammable liquid and vapor

AUTO-IGNITION TEMPERATURE

426°C, 798.8°F

BOILING POINT

117.9°C,
244.22°F

DECOMPOSITION TEMPERATURE

Not available

EVAPORATION RATE

1

EXPLOSIVE LIMIT

5.4-16 (vol% in air)

FLASH POINT

40.00°C, 104°F
(Closed Cup);
44.44 °C, 112.00 °F
(Open Cup)

log P (OCTANOL-WATER)

-0.17

LOWER FLAMMABLE/EXPLOSIVE LIMIT(S)

4 %

MELTING/FREEZING POINT

16.6°C, 61.88°F

PARTICLE CHARACTERISTICS

0.074 ppm

OXIDIZING PROPERTY

Not available

pH

2.4 (1.0M)

RELATIVE DENSITY (WATER = 1)

Not available

SPECIFIC GRAVITY

1.050 (25°C)

UPPER FLAMMABLE/EXPLOSIVE LIMIT(S)

19.9 %

**VAPOR DENSITY
(AIR = 1)**

2.1

VAPOR PRESSURE

2.093 kPa (25°C)

VISCOSITY
1.22 mPa.s
(20°C)

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



SECTION 10: STABILITY AND REACTIVITY

REACTIVITY

The substance is a weak acid. Reacts violently with strong oxidants. This generates fire and explosion hazard. Reacts violently with strong bases, strong acids and many other compounds. Attacks some forms of plastic, rubber and coatings. May be corrosive to metals.

CHEMICAL STABILITY

Stable under recommended storage conditions

INCOMPATIBLE MATERIALS

Strong oxidizing agents. Chromic acid. Sodium peroxide. Nitric acid. Caustics. Metals. Amines. Alcohols. Carbonates. Phosphates.

**HAZARDOUS DECOMPOSITION
PRODUCTS**

Toxic fumes of carbon oxides and other gases may occur.

HAZARDOUS POLYMERIZATION

Will not occur.

**POSSIBILITY OF HAZARDOUS
REACTION**

Not established.

CONDITIONS TO AVOID

Sources of ignition. Avoid temperatures exceeding the flash point.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Oral: Rat: LD50: (mg/kg): 3310
Dermal: Rabbit LD50: (mg/kg): 1060
Inhalation: Rat: LC50: (mg/L/4hr): 11.4

SKIN CORROSION/IRRITATION

Causes severe skin burns.
Skin irritancy test; Rabbit: Result: Corrosive

**SERIOUS EYE DAMAGE/EYE
IRRITATION**

Causes severe eye burns. Causes serious eye damage.
Eye irritancy test: Rabbit: Result: Severe irritation and corneal damage.
Eye irritation has been noted at a concentration below 10 ppm.

RESPIRATORY SENSITIZATION

Due to lack of data the classification is not possible.

SKIN SENSITIZATION

Based on available data, the classification criteria are not met.
May cause sensitization by skin contact.

GERM CELL MUTAGENICITY

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

CARCINOGENICITY

OSHA ACETIC ACID is not listed.

NTP ACETIC ACID is not listed.

IARC ACETIC ACID is not evaluated.

California Proposition This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**ADDITIONAL CARCINOGENICITY
INFORMATION**

Due to lack of data the classification is not possible.

REPRODUCTIVE TOXICITY

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

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

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.
Repeated or prolonged contact with skin may cause dermatitis. The substance may have effects on the gastrointestinal tract, resulting in digestive disorders including pyrosis and constipation.

ASPIRATION HAZARDS

Due to lack of data, the classification is not possible.

SIGNS AND SYMPTOMS OF EXPOSURE
ROUTES OF EXPOSURE:

Oral, Dermal, Inhalation, Eye contact

EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:

Not available

DELAYED HEALTH EFFECT FROM EXPOSURE:

Circulatory collapse. Respiratory failure. Pneumonitis. Perforation of the esophagus.

Symptoms related to the physical, chemical, and toxicological characteristics:

Burning pain and severe corrosive skin damage. Permanent eye damage including blindness. Burning in mouth, throat, and/or stomach. Blood in vomit. Blood in urine. Black or bloody stools. Abdominal pain. Nausea. Shortness of breath. Cough. Headache. Tearing. Tooth erosion.

Medical conditions aggravated by exposure:

Skin disorders. Respiratory disorders. Eye disorders.

POTENTIAL HEALTH EFFECTS

Inhalation	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membrane and upper respiratory tract. Inhalation of fumes may cause pneumonitis.
Ingestion	May be harmful if swallowed. Causes digestive tract burns. Ingestion may be fatal.
Skin	Harmful if absorbed through skin. Corrosive. Causes severe skin burns. Local and topical applications may produce stinging and burning. May cause sensitization by skin contact.
Eyes	Causes severe eye burns. Causes serious eye damage.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

EC50: 48 Hr: Crustacea: Daphnia Magna: (mg/L): 65
LC50: 96 Hr: Fish: Lepomis macrochirus: (mg/L): 75
EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available

PERSISTENCE AND DEGRADABILITY

Readily biodegradable.

BIOACCUMULATIVE POTENTIAL

LogPow: -0.17

MOBILITY IN SOIL

Miscible with water.
Water Solubility: 1.00E+06 mg/L (25°C)
Henry's Law Constant: 1.00E-07 atm-m³/mole (25°C)

OTHER ADVERSE EFFECTS

The substance is harmful to aquatic organisms.

NOTES

This product is not intended to be released into the environment

Acetic acid is designated as a hazardous substance under section 311(b)(2)(A) of the US Federal Water Pollution Control Act and further regulated by the Clean Water Act Amendments of 1977 and 1978.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

NOTES

Hazardous waste code:

D001: Waste Flammable material with a flash point <140 F

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

SECTION 14: TRANSPORT INFORMATION
UN PROPER SHIPPING NAME

ACETIC ACID, GLACIAL

UN NUMBER

2789

CLASS

1.1

PACKING GROUP

II

AUSTRALIA
HAZCHEM

2P

EU
**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	EPA 40 CFR Part 355 Appendix A	EPA 40 CFR Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
ACETIC ACID, 64-19-7	X	N/L	N/L	N/L	X	X	X	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	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemicals
ACETIC ACID, 64-19-7	N/L	Listed as Schedule 2	Listed as Category III	Listed	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
ACETIC ACID, 64-19-7	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

NOTES US Federal Regulations: CERCLA Reportable Quantity: 5000 pounds (2270 kg) This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

SECTION 16: OTHER INFORMATION

REFERENCES

Available upon request

ABBREVIATIONS AND ACRONYMS

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** – Istituto 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

02/2023

SUPERSEDES

01/2022

For a list of changes to the SDS since the last version, please communicate with MEDISCA at www.medisca.com

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.