

#### **SECTION 1: PRODUCT IDENTIFICATION**

PRODUCT NAME	BISMUTH SUBCARBONATE, USP
PRODUCT CODE	0659
SUPPLIER	MEDISCA Inc.   Tel.: 1.800.932.1039   Fax.: 1.855.850.5855   661 Route 3, Unit C, Plattsburgh, NY, 12901   6641 N. Belt Line Road, Suite 130, Irving, TX, 75063   MEDISCA Pharmaceutique Inc.   Tel.: 1.800.665.6334   Fax.: 514.338.1693   4509 Rue Dobrin, St. Laurent, QC, H4R 2L8   21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2   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	Manufacturing and Compounding
RESTRICTIONS ON USE	Not applicable

## **SECTION 2: HAZARDS IDENTIFICATION**

GHS CLASSIFICATION	Chronic Aquation	Chronic Aquatic Toxicity (Category 4)						
PICTOGRAM	Not Applicable							
SIGNAL WORD	Not applicable							
HAZARD STATEMENT(S)	May cause long lasting harmful effects to aquatic life. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.							
ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS	Not applicable							
PRECAUTIONARY STATEMENT(S)	Prevention	Avoid release to the environment. Avoid breathing dust/fume/gas/mist/ vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. Avoid breathing dust/fume/gas/mist/ vapors/spray. In case of inadequate ventilation wear respiratory protection.						



	Response	IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. Wash contaminated clothing before reuse. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable breathing. IF EXPERIENCING RESPIRATORY SYMPTOMS: Call a poison center/doctor.						
	Storage Disposal	Not applicable Dispose of contents and/or container in accordance with local regulations.						
HMIS CLASSIFICATION	Health Hazard	1	Flammability	0				
	Reactivity	0	Personal Protection	E				

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	2,4-Dioxa-1,5-dibismapentane, 1,3,5-trioxo			
BOTANICAL NAME	Not applicable			
SYNONYM	Dibismuth carbonate dioxide			
CHEMICAL FORMULA	(BiO) <sub>2</sub> CO <sub>3</sub>			
CHEMICAL FAMILY	Bismuth salt			
CAS NUMBER	5892-10-4			
ALTERNATE CAS NUMBER	Not applicable			
MOLECULAR WEIGHT	509.97			
COMPOSITION	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
	BISMUTH SUBCARBONATE (Anhydrous)	5892-10-4	227-567-9	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	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

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

## SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

#### Chemical Name: BISMUTH SUBCARBONATE (Anhydrous) CAS #: 5892-10-4

	Country	Limit value-8 hours		imit value-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	Add Country	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

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

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 EQUIPMENTEyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's<br/>eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate<br/>gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin.<br/>Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard<br/>EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are<br/>exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a<br/>thermal hazard, appropriate Personal Protective Equipment should be used.SPECIFIC ENGINEERING CONTROLSAdequate mechanical ventilation. Fumehood, eye wash station, and safety shower.BIOLOGICAL MONITORINGNot availableCONTROL BANDINGNot available

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid								
DESCRIPTION	White	White or almost white powder.							
SOLUBILITY	Pract	tically insoluble in wa	ater, ir	n alcohol, and in ether. Dissolv	es in dilute acids witl	h effe	ervescence.		
ODOR	Odor	less							
FLAMMABILITY	May	be combustible at hi	gh ter	nperature					
AUTO-IGNITION TEMPERATURE		Not available		BOILING POINT	Not available		DECOMPOSITION TEMPERATURE	Not available	
EVAPORATION RATE		Not available		EXPLOSIVE LIMIT	Not available		FLASH POINT	Not available	
log P (OCTANOL-WATER)		Not available		LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available		MELTING/FREEZING POINT	500 °C	
PARTICLE CHARACTERISTICS		Not available		OXIDIZING PROPERTY	Not available		рН	Not available	
RELATIVE DENSITY (WATER = 1)		Not available		SPECIFIC GRAVITY	6.86		UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	
VAPOR DENSITY (AIR = 1)		Not available		VAPOR PRESSURE	0.14 KPa (25°C)		VISCOSITY	Not available	

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



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

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established	
CHEMICAL STABILITY	Stable under recommended storage conditions	
INCOMPATIBLE MATERIALS	Strong oxidizing agents, strong acids	
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may	occur
HAZARDOUS POLYMERIZATION	Will not occur	
POSSIBLITY OF HAZARDOUS REACTION	Not established	
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures	

## SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): 22000 Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available				
SKIN CORROSION/IRRITATION	Due to lack of dat	Due to lack of data the classification is not possible.			
SERIOUS EYE DAMAGE/EYE IRRITATION	Due to lack of dat	Due to lack of data the classification is not possible.			
RESPIRATORY SENSITIZATION	Based on available data, the classification criteria are not met. May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
SKIN SENSITIZATION	Based on available data, the classification criteria are not met. May cause an allergic skin reaction.				
GERM CELL MUTAGENICITY	Due to lack of data the classification is not possible.				
CARCINOGENICITY	OSHA	BISMUTH SUBCARBONATE is not listed.			
	NTP	BISMUTH SUBCARBONATE is not listed.			
	IARC	BISMUTH SUBCARBONATE is not evaluated.			
	California Proposition 65	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	Due to lack of dat	ta the classification is not possible.			
REPRODUCTIVE TOXICITY	Due to lack of data the classification is not possible.				
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.				
ASPIRATION HAZARDS	Due to lack of dat	Due to lack of data the classification is not possible.			



SIGNS AND SYMPTOMS OF EXPOSURE	Not available DELAYED HE Not available Adverse Effect inhaled, ingest Overdose Effe or lip sores, ar Acute: Possibl Chronic: Possi nausea, vomiti weakness, rhe changes, trem	EXPOSURE: T SYMPTOMS RELATED TO EXPOSURE: ALTH EFFECT FROM EXPOSURE: is: Adverse effects include nausea, vomiting, and diarrhea. Possible allergic reaction to material if ed or in contact with skin. cts: Effects of acute bismuth toxicity include gastrointestinal disturbances, skin reactions, mouth id discoloration of mucous membranes (including a blue line on the gums). e eye, skin, gastrointestinal and/or respiratory tract irritation. ble hypersensitization. Symptoms of chronic bismuth toxicity may include foul breath, fever, ng, diarrhea, darkening of feces or tongue, loss of appetite, headache, kidney or liver damage, umatic pain, gingivitis, dermatitis, impaired taste and smell, depression or other mental status or, seizures, and cyanosis. tions Aggravated by Exposure: Hypersensitivity to material, liver or kidney impairment, I disorders, and previous exposure to lead.
DOTENTIAL HEALTH EFFECTS	0	
POTENTIAL HEALTH EFFECTS	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Ingestion	May be harmful if swallowed.
	Skin	May be harmful if absorbed through skin. May cause skin irritation. May cause an allergic skin reaction
	Eyes	May cause eye irritation.
	SECTION 1	

#### SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	EC50: 48 Hr: Crustacea: (mg/L): 137 LC50: 96 Hr: Fish: (mg/L): 137 EC50: 72 Hr: Algae: (mg/L): 137			
PERSISTENCE AND DEGRADABILITY	Not available			
BIOACCUMULATIVE POTENTIAL	Not available			
MOBILITY IN SOIL	Practically insoluble in water			
OTHER ADVERSE EFFECTS	May cause long lasting harmful effects to aquatic life.			
	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	
AUSTRALIA		
HAZCHEM	Not applicable	
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 Part 372.65	EPA 40 CF Appendix A	FR Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey	Massachusetts	California Prop 65
BISMUTH SUBCARBONATE, 5892-10-4	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
BISMUTH SUBCARBONATE, 5892-10-4	N/L	*Listed as Schedule 4	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
BISMUTH SUBCARBONATE, 5892-10-4	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

#### NOTES

\*Bismuth compounds are listed

Not applicable

#### **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 – 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	01/2023
SUPERSEDES	04/2021 For a list of changes to the SDS since the last version, please communicate with MEDISCA at <u>www.medisca.com</u>
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