

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	BENZALKONIUM CHLORIDE SOLUTION, NF (50%)
PRODUCT CODE	0264
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

Flammable Liquid (Category 3) Acute Toxicity - Oral (Category 3) Skin Corrosion (Category 1) Eye Damage (Category 1) Acute Aquatic Toxicity (Category 1) Specific Target Organ Toxicity - Single Exposure (Category 2)

PICTOGRAM

SIGNAL WORD HAZARD STATEMENT(S)

ADVERSE PHYSIOCHEMICAL, HUMAN HEALTH AND ENVIRONMENTAL EFFECTS

Danger

Flammable liquid and vapor. Toxic if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life. May cause damage to organs. Not Applicable



PRECAUTIONARY STATEMENT(S)	Prevention	 Keep away from heat, sparks, open flames and No smoking Keep container tightly closed Ground/Bond container and receiving equipment Use explosion-proof equipment Use non-sparking tools Take action to prevent static discharges Wear protective gloves, protective clothing, eye and face protection. Wash hands thoroughly after handling. Do not touch eyes. Do not eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapors and spray. Avoid release to the environment. Obtain, read and follow all special instructions before use. Do not handle until all safety precautions have been read and understood. IN CASE OF FIRE: Small fire: Use dry chemical, CO/2 or water spray to extinguish. Large fire: Use dry chemical, CO/2, alcohol resistant foam or water spray to extinguish. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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. COLLECT SPILLAGE. IF EXPOSED: Get emergency medical help immediately. Call a poison center or doctor. 					
	Response						
	Storage	Store in a well-ventilated place. Keep cool. Store locked up.					
	Disposal	Dispose of contents and/or	container in accordance with local re	gulations.			
HMIS CLASSIFICATION	Health Hazard	3	Flammability	2			
	Reactivity	0	Personal Protection	Х			

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	Not applicable			
BOTANICAL NAME	Not applicable			
SYNONYM	Not applicable			
CHEMICAL FORMULA	Not applicable			
CHEMICAL FAMILY	Not available			
CAS NUMBER	Not applicable			
LTERNATE CAS NUMBER	Not applicable			
MOLECULAR WEIGHT	Not applicable			
COMPOSITION	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT
	ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C12-18)	68391-01-5	269-919-4	40 - 50
	ETHANOL	64-17-5	200-578-6	5 - 10

Other ingredients: Water (40 - 50 %)



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

Not applicable

Flammable liquid and vapor.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

FLAMMABLE PROPERTIES

HAZARDOUS COMBUSTION PRODUCTS

SUITABLE & UNSUITABLE EXTINGUISHING MEDIA

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Under fire conditions, hazardous fumes will be present.	
Small fire: dry chemical, CO ₂ or water spray. Large fire: dry chemical, CO ₂ , alcohol resistant foam or water spray. Do not get water inside containers. Do not use water jet as an extinguisher as this will spread the fire.	
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eves	

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	On land, sweep or shovel into suitable containers.
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.					

Preserve in tight containers, and prevent contact with metals.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Chemical Name: ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C12-18) CAS #: 68391-01-5

	Country	Limit valu	le-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/A	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A

Chemical Name: ETHANOL CAS #: 64-17-5

	Country	Limit value-8 hours		Limit value-Short Term		IDLH	REL	Advisory	Notes
		ppm	mg/m³	ppm	mg/m³				
OSHA	USA	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
ACGIH	USA	1000	N/L	N/L	N/L	N/L	N/L	N/A	N/A
NIOSH	USA	1000	1900	N/L	N/L	3300 ppm*	1000 ppm; 1900 mg/m3	N/A	*10 % LEL (see 64157)
WEEL	USA	N/L	N/L	N/L	N/L	N/L	N/L	N/A	N/A
HSIS	Australia	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
HSE	UK	1000	1920	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Austria	1000	1900	2000	3800	N/L	N/L	N/A	N/A
GESTIS	Belgium	1000	1907	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada - Ontario	N/L	N/L	1000	N/L	N/L	N/L	N/A	N/A
GESTIS	Canada - Quebec	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Denmark	1000	1900	2000	3800	N/L	N/L	N/A	N/A
GESTIS	Finland	1000	1900	1300	2500	N/L	N/L	N/A	15 minutes average value
GESTIS	France	1000	1900	5000	9500	N/L	N/L	N/A	N/A
GESTIS	Germany (AGS)	200	380	800	1520	N/L	N/L	N/A	15 minutes average value



GESTIS	Germany (DFG)	200	380	800	1520	N/L	N/L	N/A	15 minutes average value
GESTIS	Hungary	N/L	1900	N/L	7600	N/L	N/L	N/A	N/A
GESTIS	Ireland	N/L	N/L	1000	N/L	N/L	N/L	N/A	N/A
GESTIS	Latvia	N/L	1000	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	New Zealand	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Poland	N/L	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Romania	1000	1900	5000	9500	N/L	N/L	N/A	15 minutes average value
GESTIS	Singapore	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	South Korea	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Spain	N/L	N/L	1000	1910	N/L	N/L	N/A	N/A
GESTIS	Sweden	500	1000	1000	1900	N/L	N/L	N/A	15 minutes average value
GESTIS	Switzerland	500	960	1000	1920	N/L	N/L	N/A	N/A
GESTIS	The Netherlands	N/L	260	N/L	1900	N/L	N/L	N/A	N/A
GESTIS	USA - NIOSH	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	USA - OSHA	1000	1900	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	United Kingdom	1000	1920	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	Australia	1000	1880	N/L	N/L	N/L	N/L	N/A	N/A
GESTIS	N/A	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	Liquid								
DESCRIPTION	Clear liquid; colorless or	Clear liquid; colorless or slightly yellow unless a color has been added. Has an aromatic odor.							
SOLUBILITY	Not available	Not available							
ODOR	Aromatic odor								
FLAMMABILITY	Flammable liquid and va	Flammable liquid and vapor.							
AUTO-IGNITION TEMPERATURE	Not available	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	Not available				

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES



EVAPORATION RATE	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	52.2 °C, 125.96 °F (Closed Cup)
log P (OCTANOL-WATER)	-0.31	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING	Not available
PARTICLE CHARACTERISTICS	Not available	OXIDIZING PROPERTY	Not available	рH	6.2 - 8 (10%)
RELATIVE DENSITY (WATER = 1)	0.97 g/mL; 8.10 Ib/gal	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available
VAPOR DENSITY (AIR = 1)	Not available	VAPOR PRESSURE	Not available	VISCOSITY	75 cPs (25°C)

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 oxidants, metals, strong bases, acid anhydrides, acid chlorides. Benzalkonium chloride is incompatible with soaps and other anionic surfactants, citrates, iodides, nitrates, permanganates, salicylates, silver salts, tartrates, and zinc oxide and sulfate. Incompatibilities have been demonstrated with ingredients of some commercial rubber mixes or plastics. Incompatibilities have also been reported with other substances including aluminium, cotton dressings, fluorescein sodium, hydrogen peroxide, hypromellose, kaolin, hydrous wool fat, and some sulfonamides.
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 Prevent contact with metals.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	BENZALKONIUM CHLORIDE SOLUTION (50%) : Oral: Rat: LD50: (mg/kg): 50 - 500 Dermal: Rabbit: LD50: (mg/kg): > 2000 Inhalation: Rat: LC50: (mg/L/4hr): Not available
SKIN CORROSION/IRRITATION	Causes severe skin burns. Skin irritancy test: 5% benzalkonium chloride solution: Guinea pig: Necrosis of epidermis.
SERIOUS EYE DAMAGE/EYE IRRITATION	Causes severe eye burns. Causes serious eye damage. Eye irritancy test, 10% benzalkonium chloride solution: Monkey: Corneal clouding; epithelial hyperplasia after 21 days. Eye irritancy test: 10% benzalkonium chloride solution: Rabbit: Corneal damage.



RESPIRATORY SENSITIZATION	Due to look of d	to the classification is not possible					
RESPIRATORY SENSITIZATION	Due to lack of data the classification is not possible. Asthma and contact dermatitis following occupational exposure to this material have been reported.						
SKIN SENSITIZATION		ta the classification is not possible. act dermatitis following occupational exposure to this material have been reported.					
GERM CELL MUTAGENICITY	Due to lack of data the classification is not possible.						
CARCINOGENICITY	OSHA ETHANOL is listed.						
		No other component of this product, present at ≥0.1%, is listed.					
	NTP	ETHANOL is listed.					
		No other component of this product, present at $\geq 0.1\%$, is listed.					
	IARC	ETHANOL is listed in group 1 (carcinogenic to humans). No other component of this product, present at ≥0.1% has been evaluated.					
	California Proposition 65	This product contains the following chemical known to the State of California to cause cancer and birth defects or other reproductive harm: ETHANOL. No other component of this product, present at ≥0.1% is known to the State of California to cause cancer, birth defects, or any other reproductive harm.					
	Based on availa	ble data, the classification criteria are not met.					
INFORMATION		M CHLORIDE: hloride Carcinogenicity studies in rats and guinea pigs, administered orally: Not carcinogenic genicity studies in mice and rabbits, administered dermally: No skin tumors were induced					
REPRODUCTIVE TOXICITY	Based on availa	ble data, the classification criteria are not met.					
	BENZALKONIUM CHLORIDE: Reproduction and development study: Mouse: 100 mg/kg/day: Administered intravaginally during early gestation: No teratogenicity noted. Reproduction and development study: Rat: 50 - 200 mg/kg: Administered intravaginally: Embryotoxicity and fetotoxicity at high doses; no teratogenicity. ETHANOL: Human (female): Oral - Effects on Newborn: Apgar score (human only); other neonatal measures or effects; drug dependence.						
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	May cause dam	age to organs.					
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Based on availa	ble data, the classification criteria are not met.					
ASPIRATION HAZARDS	Due to lack of da	ata the classification is not possible.					
SIGNS AND SYMPTOMS OF	ROUTES OF EX	(POSURE:					
EXPOSURE	Oral, Dermal, Inhalation, Eye contact EARLY ONSET SYMPTOMS RELATED TO EXPOSURE:						
	Not available DELAYED HEALTH EFFECT FROM EXPOSURE: Respiratory depression. Cyanosis. Metabolic acidosis. Hypotension						
	Symptoms related to the physical, chemical, and toxicological characteristics: Burning pain and severe corrosive skin damage. Acute eye irritation/corrosion. Burning in mouth, throat, and/or stomach. Nausea. Vomiting. Diarrhea. Salivation. Mouth ulcers. Difficulty breathing. Bluish skin. Muscle weakness. Dizziness. Headache. Restlessness.						
	Medical conditions aggravated by exposure: Asthma. Pre-existing skin conditions or damage.						
POTENTIAL HEALTH EFFECTS	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.					
	Ingestion	Toxic if swallowed. Causes digestive tract burns.					
	Skin	Harmful if absorbed through skin. Corrosive to skin. Causes severe skin burns.					
	Eyes	Corrosive to eyes. Causes severe eye burns. Causes serious eye damage.					
	_,						



SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	BENZALKONIUM CHLORIDE SOLUTION (50%): Acute toxicity estimate:EC50: 48 Hr: Crustacea: (ppm): 0.0116 - 0.032 Acute toxicity estimate:LC50: 96 Hr: Fish: (ppm): 0.056 Acute toxicity estimate:IC50: 72 Hr: Algae: (ppm): 0.126	
PERSISTENCE AND DEGRADABILITY	Readily biodegradable.	
BIOACCUMULATIVE POTENTIAL	Log Pow:-0.31.	
MOBILITY IN SOIL	Soluble in water.	
OTHER ADVERSE EFFECTS	Not available	
	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	CORROSIVE LIQUID, FLAMMABLE, N.O.S.
UN NUMBER	2920
CLASS	8(3)
PACKING GROUP	II Contraction of the second se
AUSTRALIA	
HAZCHEM	3W
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE	Not Listed
IBC CODE	
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		Right-to-know Pennsylvania New Jersey Massachusetts			California Prop 65
ETHANOL, 64-17-5	N/L	N/L	N/L	N/L	X	Х	X	x
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C12-18), 68391-01-5	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
ETHANOL, 64-17-5	N/L	N/L	Listed as Category III	N/L	N/L	N/L
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C12-18), 68391-01-5	N/L	Listed as Schedule 6	N/L	Listed	N/L	Listed

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
ETHANOL, 64-17-5	N/L	N/L	N/L	N/L	N/L	N/L	N/L
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C12-18), 68391-01-5	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 Not applicable

AGREEMENT

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

03/2024

06/2023

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.