SAFETY DATA SHEET

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Section 1 Chemical Product and Company Identification

Science Stokest Henrietta Rd PO 80x 92912 Rochester, NY 14692-901 Tel: (800) 962-2660	Boreal Science 399 Vansickle Road St. Catherines, Ontario L2S 314 Canada Tel: (800) 387-9393	CHEMTREC 24 Hour Emergency USA Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product ISOPROPYL ALCOHOL		
Synonyms 2-Propanol ; Isopropanol		
Section 2 Hazards Identification		
Signal word: DANGER Pictograms: GHS02 / GHS07 Target organs: Central nervous system, Liver, Kin	Ineys.	 Precautionary statement(s): P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312: Call a POISON CENTER or doctor if you feel unwell. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P370+P378: In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish. P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Isopropyl alcohol		67-63-0	100%	200-661-7		
Section 4	First Aid Measures					

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SERIOUS EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, CO2, water spray or alcohol-resistant foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances. Keep away from ignition sources.

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Isopropanol	TWA: 200 ppm / STEL: 400 ppm	TWA: 400 ppm / 980 mg/m ³	TWA: 400 ppm / STEL: 500 ppm

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-

Section 9	Physical & Chemical Prop	oerties					
Appearance: Clear, Odor: Aromatic odor. Odor threshold: Dai pH: Data not availab Melting / Freezing po Boiling point: 82°C Flash point: 12°C (5	ta not available. le. pint: -90°C (-130°F) (179.6°F)	Flammability (Explosion limi Vapor pressur Vapor density Relative densi	ate (Butyl acetate = 1): solid/gas): Data not a ts: Lower / Upper: 2 e (mm Hg): 33 mm @ (Air = 1): 2.1 ty (Specific gravity): (a Complete in water.	vailable. % / 12% 20°C	Auto-igniti Decompos Viscosity: Molecular	on temperature	
Section 10	Stability & Reactivity						
Incompatible materi	Stable : Excessive temperatures, hea als: Strong oxidizing materials osition products: Carbon oxid	t, sparks, open fla , caustics, alumir		of ignition.	compounds c	an react vigorou	sly with this alcohol.
Section 11	Toxicological Information						
Carcinogenity: Data NTP: No component IARC classified: Grou OSHA: No component Reproductive toxici STOT-single expose STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: Inhalatior and irritation of the th Ingestion: Aspiration develop if this occurs Skin: Prolonged or re Eyes: Contact cause Signs and symptom Additional informati	of this product present at levels up 3: Not classifiable as to its ca that of this product present at levels ty: Data not available ure: The substance or mixture in osure: Data not available Yes ects: nof high vapor concentrations no roat. Continued inhalation may hazard. Liquid can directly ent continued inhalation may hazard. Liquid can directly ent continued inhalation may hazard. See potential so f exposure: See Potential ion: RTECS #: NT8050000 [Is	arcinogenicity to h els greater than o is classified as sp nay cause centra result in uncons er the lungs (asp ation and drying, welling, and/or b health effects abo	numans r equal to 0.1% is ident becific target organ toxi l nervous system depre ciousness and death. irated) when swallowed cracking and defatting lurred vision.	ified as a carcinoge cant, single exposur ession resulting in di d or vomited. Seriou	n or potential o e, category 3 v zziness, drows is lung damag	e and possible fa	ects. vomiting, inability to concent
Section 12	Ecological Information						
Toxicity to daphnia	nephales promelas (Fish, fresh) and other aquatic invertebrate enedesmus quadricauda (Alga	es: Artemia salina e), LOEC50 = 1,8	a (Crustacea), EC50 = 800 mg/L/7 days [Isopre	>10,000 mg/L/24 ho	urs [Isopropa	nol]	
Persistence and dee Mobility in soil: No Other adverse effect	data available ts: An environmental hazard ca	PBT and v	ulative potential: No of PvB assessment: No d in the event of unprof	data available data available	disposal.		
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Persistence and deg Mobility in soil: No Other adverse effect Section 13 These disposal gui regulations may be Section 14 UN/NA number: Hazard class: 3	data available ts: An environmental hazard ca Disposal Considerations delines are intended for the of different. Dispose of in acco Transport Information (U: UN1219 Shipping Packing g	PBT and v annot be excluded disposal of cata ordance with all S DOT / CANAL name: Isopro proup: II	PvB assessment: No d in the event of unprof log-size quantities of local, state and fede DA TDG) panol Reportat	data available data available essional handling of hly. Federal regul aral regulations or ble Quantity: No	ations may a	à licensed che	emical disposal agency.
Persistence and deg Mobility in soil: No Other adverse effect Section 13 These disposal guid regulations may be Section 14 UN/NA number: Hazard class: 3 Exceptions: Limi Section 15 A chemical is considered	data available ts: An environmental hazard ca Disposal Considerations delines are intended for the of different. Dispose of in acco Transport Information (U UN1219 Shipping Packing g ited quantity equal to or less Regulatory Information to be listed if the CAS number for	PBT and v annot be excluded disposal of cata ordance with all S DOT / CANAI name: Isopro proup: II s than 1 L the anhydrous form	PvB assessment: No d in the event of unprof log-size quantities of local, state and fede DA TDG) panol Reportat 2016 ERC is on the Inventory list.	data available data available essional handling of hly. Federal regula eral regulations or ble Quantity: No 3 Guide # 129	ations may a contract with	a licensed che	emical disposal agency. arine pollutant: No
Persistence and deg Mobility in soil: No Other adverse effect Section 13 These disposal guid regulations may be Section 14 UN/NA number: Hazard class: 3 Exceptions: Limit Section 15	data available ts: An environmental hazard ca Disposal Considerations delines are intended for the of different. Dispose of in acco Transport Information (U UN1219 Shipping Packing g ited quantity equal to or less Regulatory Information to be listed if the CAS number for	PBT and v annot be excluded disposal of cata ordance with all S DOT / CANAL name: Isopro yroup: II s than 1 L	PvB assessment: No d in the event of unprof log-size quantities of local, state and fede DA TDG) panol Reportat 2016 ER	data available data available essional handling of hly. Federal regul aral regulations or ble Quantity: No	ations may a	à licensed che	emical disposal agency.

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015