# SAFETY DATA SHEET

Page E1 of E2

Section 1

Identification

## INNOVATING SCIENCE<sup>®</sup> by Aldon 221 Rog

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

# CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product 1,2-DICHLC	DROETHANE	
Synonyms Ethylene Die	chloride; Ethylene Chloride; EDC; Dichloroethane	
Section 2 Ha	zards identification	
Signal word: DANGER Pictograms: GHS02 / GH Target organs: Liver, Kid	HS07 / GHS08 P2 Ineys P2 P2 P2 P2 P2 P2 P2 P2	recautionary statement: 201: Obtain special instructions before use. 202: Do not handle until all safety precautions have been read and understood. 210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. 233: Keep container tightly closed. 240: Ground/bond container and receiving equipment. 241: Use explosion-proof electrical/ventilating/lighting equipment.
GHS Classification: Flammable liquid (Categor Acute toxicity, oral (Categor Skin irritation (Category 2) Eye irritation (Category 2A STOT-SE (Category 3) Carcinogenicity (Category	P: P: P: pry 2) pry 4) pr pr pr pr pr pr pr pr pr pr	<ul> <li>242: Use only non-sparking tools.</li> <li>243: Take precautionary measures against static discharge.</li> <li>261: Avoid breathing mist/vapours/spray.</li> <li>264: Wash hands thoroughly after handling.</li> <li>270: Do not eat, drink or smoke when using this product.</li> <li>271: Use only outdoors or in a well-ventilated area.</li> <li>280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor</li> </ul>
GHS Label information: I H225: Highly flammable lic H302: Harmful if swallowe H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirat H350: May cause cancer.	Hazard statement:     Product       quid and vapour.     Product       d.     Product       on.     or       ory irritation.     Product       Product     Product	<ul> <li>you feel unwell.</li> <li>302+P352: IF ON SKIN: Wash with plenty of water and soap.</li> <li>332+P313: If skin irritation occurs: Get medical attention.</li> <li>305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove ontact lenses, if present and easy to do. Continue rinsing.</li> <li>337+P313: If eye irritation persists: Get medical attention.</li> <li>304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>308+P313: IF exposed or concerned: Get medical attention.</li> <li>362+P364: Take off contaminated clothing and wash it before reuse.</li> <li>370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide to extinguish.</li> </ul>
Hazards not otherwise	P. P:	403+P235: Store in a well-ventilated place. Keep cool. 501: Dispose of contents/container to a licensed chemical disposal agency in ccordance with local/regional/national regulations.

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	
1,2-Dichloroethane		107-06-2	100%	203-458-1	
Section 4	First aid measures				

**INGESTION:** 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. CAUSES 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: Carbon dioxide, dry chemical, dry sand, alcohol 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. Vapor/air mixtures are explosive. 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.

## 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 and 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 protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Ethylene dichloride	TWA: 10 ppm / 40 mg/m <sup>3</sup> (A4)	TWA: 50 ppm / STEL: C 100 ppm	TWA: 1 ppm STEL: 2ppm		

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: Work in fume hood or wear a NIOSH/MSHA-approved respirator.

	Physical and chemical p	ropenties					
Boiling point: 83°	-like odor. Data not available. able.   <b>point:</b> -35°C (-31°F)	Flammability ( Explosion limi Vapor pressur Vapor density Relative density	ate (Butyl acetate = 1): solid/gas): Data not ar ts: Lower: 6.2% Up e (mm Hg): 87 mm @ (Air = 1): 3.4 (Specific gravity): 1.24 @ : Slightly soluble in wat	vailable. o <b>per:</b> 15.9% 25°C 20°C	Auto-igniti Decompos Viscosity: Molecular	befficient: Data on temperature: ition temperatur Data not availabl formula: C <sub>2</sub> H <sub>4</sub> C weight: 98.96	412°C (775°F) r <b>e:</b> Data not available. le.
Section 10	Stability and reactivity						
Incompatible mate	<b>id:</b> Excessive temperatures, he <b>erials:</b> Aluminum or magnesium	at, sparks, open fla powder, oxidizing		of ignition. Incomp			
	ia and dimethylaminopropylamin nposition products: Carbon ox		oride das phosdene da	as acetylene and vi	nyl chloride		
	· · ·		ende gae, prieegene ge		.j. emenaer		
Section 11	Toxicological informatio	n					
IARC classified: Gr OSHA: No compor Ca Prop 65: A WA Reproductive toxi	hata not available anticipated to be a human carcin roup 2B: Possibly carcinogenic to nent of this product present at lev ARNING! This product can expos <b>icity:</b> Data not available	o humans. vels greater than o					
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestion by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto	besure: The substance or mixture posure: Data not available d: Data not available ffects: ion of vapors irritate the respirate on causes irritation to the gastroil system effects, liver, kidney and irritation, rash and blister formation se eye irritati on. Splashes causons of exposure: Risk of cancer of the substance of the substance of the substance of the substance of the substance of the substance	ory tract. ntestinal tract. Ma adrenal gland dar ion. Prolonged co se severe irritation,	y cause headache, wea nage, weak and rapid p intact can cause burns. , possible corneal burns	akness, cyanosis, na ulse and unconscio Can be absorbed and eye damage.	ausea, vomitin usness. hrough skin w	g and diarrhea. 1	
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestion by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto	boure: The substance or mixture posure: Data not available ffects: ion of vapors irritate the respirator on causes irritation to the gastroin system effects, liver, kidney and irritation, rash and blister formation se eye irritation. Splashes causon	ory tract. ntestinal tract. Ma adrenal gland dar ion. Prolonged co se severe irritation,	y cause headache, wea nage, weak and rapid p intact can cause burns. , possible corneal burns	akness, cyanosis, na ulse and unconscio Can be absorbed and eye damage.	ausea, vomitin usness. hrough skin w	g and diarrhea. 1	
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: . Persistence and d Mobility in soil: N	besure: The substance or mixture kposure: Data not available i: Data not available iffects: ion of vapors irritate the respirate on causes irritation to the gastroin system effects, liver, kidney and irritation, rash and blister formation se eye irritati on. Splashes cause oms of exposure: Risk of cancel internation: RTECS #: KI0525000 Ecological information imanda limanda (fish, marine), Lia and other aquatic invertebra Anacystis aeruginosa (Algae), de degradability: No data available lo data available ects: An environmental hazard of the substance of the substantial formation of the substantial formation internation of the substantial formation of the substantial formation internation of the substantial formation of the substantial format	ory tract. testinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 tes: Daphnia mag path = 105 mg/L Bioaccume PBT and vic	y cause headache, wea mage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos b hours ina (Crustacia), EC50 = ulative potential: No co PvB assessment: No	akness, cyanosis, na bulse and unconscio Can be absorbed and eye damage. sure. 155 mg/l/48 hours lata available data available	ausea, vomitin usness. hrough skin w	g and diarrhea. 1	
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effor	besure: The substance or mixture kposure: Data not available 3: Data not available 3: Data not available 5: Data not substantiation 5: Data not	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 ites: Daphnia mag eath = 105 mg/L Bioaccumu PBT and vi cannot be excluded	y cause headache, wea mage, weak and rapid p intact can cause burns, possible corneal burns el and duration of expos b hours (na (Crustacia), EC50 = <b>ulative potential:</b> No c <b>PvB assessment:</b> No d in the event of unprofe	akness, cyanosis, na iulse and unconscio Can be absorbed i and eye damage. sure. 155 mg/l/48 hours lata available data available essional handling o	ausea, vomitin usness. hrough skin w	g and diarrhea. T	These symptoms may be follo
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effor Section 13 These disposal g	besure: The substance or mixture kposure: Data not available i: Data not available iffects: ion of vapors irritate the respirate on causes irritation to the gastroin system effects, liver, kidney and irritation, rash and blister formation se eye irritati on. Splashes cause oms of exposure: Risk of cancel internation: RTECS #: KI0525000 Ecological information imanda limanda (fish, marine), Lia and other aquatic invertebra Anacystis aeruginosa (Algae), de degradability: No data available lo data available ects: An environmental hazard of the substance of the substantial formation of the substantial formation internation of the substantial formation of the substantial formation internation of the substantial formation of the substantial format	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 ites: Daphnia mag eath = 105 mg/L Bioaccumm PBT and vic cannot be excluded disposal of cata	y cause headache, wea nage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos b hours na (Crustacia), EC50 = ulative potential: No co PvB assessment: No d in the event of unprofe- ilog-size quantities or	akness, cyanosis, na bulse and unconscio Can be absorbed and eye damage. sure. 155 mg/l/48 hours lata available data available essional handling o	ausea, vomitin usness. hrough skin w disposal. ations may a	g and diarrhea. T ith toxic effects. pply to empty co	These symptoms may be folk
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effor Section 13 These disposal g regulations may b Section 14	besure: The substance or mixture kposure: Data not available i: Data not available iffects: ion of vapors irritate the respirate on causes irritation to the gastroli system effects, liver, kidney and irritation, rash and blister formation irritation, rash and blister formation irritation, rash and blister formation intritation, rash and blister formation intranda limanda (fish, marine), L ia and other aquatic invertebra Anacystis aeruginosa (Algae), di- degradability: No data available lo data available ects: An environmental hazard of Disposal considerations uidelines are intended for the be different. Dispose of in ac Transport information	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 ites: Daphnia mag eath = 105 mg/L Bioaccum PBT and vic cannot be excluded disposal of cata cordance with all	y cause headache, wea nage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos b hours na (Crustacia), EC50 = ulative potential: No d PvB assessment: No d in the event of unprofe log-size quantities or l local, state and fede	akness, cyanosis, na bulse and unconscio Can be absorbed and eye damage. sure. 155 mg/l/48 hours lata available data available essional handling o	ausea, vomitin usness. hrough skin w disposal. ations may a	g and diarrhea. T ith toxic effects. pply to empty co	These symptoms may be folk
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effor Section 13 These disposal g regulations may b Section 14 UN/NA number: Hazard class: 3	besure: The substance or mixture kposure: Data not available i: Data not available iffects: ion of vapors irritate the respirate on causes irritation to the gastroli system effects, liver, kidney and irritation, rash and blister formation irritation, rash and blister formation irritation, rash and blister formation intritation, rash and blister formation irritation, rash and blister formation irritation, rash and blister formation intritation, rash and blister formation intranda limanda (fish, marine), L ia and other aquatic invertebra Anacystis aeruginosa (Algae), di- degradability: No data available lo data available ects: An environmental hazard of Disposal considerations uidelines are intended for the be different. Dispose of in ac Transport information : UN1184 Shipping	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 ites: Daphnia mag eath = 105 mg/L Bioaccum PBT and vic cannot be excluded disposal of cata cordance with all gname: Ethyle group: II	y cause headache, wea nage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos b hours na (Crustacia), EC50 = ulative potential: No d PvB assessment: No d in the event of unprofe log-size quantities or l local, state and fede ne dichloride Reportat	akness, cyanosis, na bulse and unconscio Can be absorbed and eye damage. sure. 155 mg/l/48 hours lata available data available essional handling o	ausea, vomitin usness. hrough skin w disposal. ations may a contract with	g and diarrhea. T ith toxic effects. pply to empty co a licensed cher	These symptoms may be folk
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to fish: L Toxicity to algae: . Persistence and d Mobility in soil: N Other adverse effo Section 13 These disposal g regulations may b Section 14 UN/NA number: Hazard class: 3 Exceptions: Li	osure: The substance or mixture	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 ites: Daphnia mag eath = 105 mg/L Bioaccum PBT and vic cannot be excluded disposal of cata cordance with all gname: Ethyle group: II	y cause headache, wea nage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos b hours na (Crustacia), EC50 = ulative potential: No d PvB assessment: No d in the event of unprofe log-size quantities or l local, state and fede ne dichloride Reportat	akness, cyanosis, na bulse and unconscio Can be absorbed and eye damage. sure. 155 mg/l/48 hours data available data available essional handling o hly. Federal regul ral regulations or	ausea, vomitin usness. hrough skin w disposal. ations may a contract with	g and diarrhea. T ith toxic effects. pply to empty co a licensed cher	These symptoms may be folk ontainer. State and/or loc mical disposal agency.
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to algae: A Persistence and d Mobility in soil: N Other adverse effor Section 13 These disposal g regulations may b Section 14 UN/NA number: Hazard class: 3 Exceptions: Lii Section 15 A chemical is conside	osure: The substance or mixture	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 ites: Daphnia mag eath = 105 mg/L Bioaccum PBT and vi cannot be excluded disposal of cata cordance with all gname: Ethyle group: Il ss than 100 mL r the anhydrous form	y cause headache, wea nage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos b hours ina (Crustacia), EC50 = ulative potential: No c PvB assessment: No d in the event of unprofe log-size quantities or l local, state and fede ne dichloride Reportat 2020 ERC	akness, cyanosis, na bulse and unconscio Can be absorbed to and eye damage. sure. 155 mg/l/48 hours lata available data available data available essional handling o hly. Federal regul ral regulations or ble Quantity: 10 3 Guide # 131	ausea, vomitin usness. hrough skin w disposal. ations may a contract with D lbs (45.4 k	g and diarrhea. T ith toxic effects. pply to empty co a licensed cher g) Ma	These symptoms may be folk ontainer. State and/or loc: mical disposal agency. rine pollutant: Yes
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Toxicity to fish: L Toxicity to fish: L Toxicity to daphni Toxicity to daphai Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effo Section 13 These disposal g regulations may b Section 14 UN/NA number: Hazard class: 3 Exceptions: Lii Section 15	osure:       The substance or mixture (posure:         Data not available       Data not available         i:       Data not available         iffects:       ion of vapors irritate the respirate on causes irritation to the gastroin system effects, liver, kidney and irritation, rash and blister formation see yei ritati on.         is and other aposure:       Risk of cancer to cause irritation for mation         imanda limanda (fish, marine), L ia and other aquatic invertebra Anacystis aeruginosa (Algae), do degradability:         No data available         ects:       An environmental hazard of Disposal considerations         uidelines are intended for the be different.         Disposal considerations         uidelines are intended for the be different.         Dispose of in ac         Transport information         :       UN1184         Shipping         3, (6.1)       Packing         mited quantity equal to or lest         Regulatory information         red to be listed if the CAS number for	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 tes: Daphnia mag eath = 105 mg/L Bioaccume PBT and vic cannot be excluded disposal of cata cordance with all gname: Ethyle group: Il ss than 100 mL	y cause headache, wea nage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos hours ina (Crustacia), EC50 = ulative potential: No c PvB assessment: No d in the event of unprofe log-size quantities or local, state and fede ne dichloride Reportate 2020 ERC	akness, cyanosis, na bulse and unconscio Can be absorbed and eye damage. sure. 155 mg/l/48 hours data available data available essional handling o hly. Federal regul ral regulations or	ausea, vomitin usness. hrough skin w disposal. ations may a contract with	g and diarrhea. T ith toxic effects. pply to empty co a licensed cher	These symptoms may be foll ontainer. State and/or loc mical disposal agency.
STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalati Ingestion: Ingestio by central nervous Skin: Causes skin Eyes: Vapors caus Signs and sympto Additional inform Section 12 Foxicity to fish: L Foxicity to fish: L Foxicity to daphni Foxicity to algae: A Foxicity to algae: A Foxicity to daphni Foxicity to daphni Foxicity to daphni Foxicity to daphni Foxicity to algae: A Foxicity to daphni Foxicity to algae: A Foxicity to algae: A	osure:       The substance or mixture (posure:         Data not available       Data not available         i:       Data not available         iffects:       ion of vapors irritate the respirate on causes irritation to the gastroin system effects, liver, kidney and irritation, rash and blister formation see yei ritati on.         is and other aposure:       Risk of cancer to cause irritation for mation         imanda limanda (fish, marine), L ia and other aquatic invertebra Anacystis aeruginosa (Algae), do degradability:         No data available         ects:       An environmental hazard of Disposal considerations         uidelines are intended for the be different.         Disposal considerations         uidelines are intended for the be different.         Dispose of in ac         Transport information         :       UN1184         Shipping         3, (6.1)       Packing         mited quantity equal to or lest         Regulatory information         red to be listed if the CAS number for	ory tract. Intestinal tract. May adrenal gland dar ion. Prolonged co se severe irritation, er depends on leve C50 = 115 mg/l/96 tes: Daphnia mag eath = 105 mg/L Bioaccume PBT and vic cannot be excluded disposal of cata cordance with all group: Il ss than 100 mL r the anhydrous form TSCA	y cause headache, wea nage, weak and rapid p intact can cause burns. possible corneal burns el and duration of expos b hours ina (Crustacia), EC50 = ulative potential: No co PvB assessment: No d in the event of unprofe log-size quantities or l local, state and fede ne dichloride Reportat 2020 ERC is on the Inventory list. CERLCA (RQ)	akness, cyanosis, na bulse and unconscio Can be absorbed is and eye damage. sure. 155 mg/l/48 hours lata available data available essional handling o hly. Federal regul ral regulations or <b>ble Quantity:</b> 10 <b>5 Guide #</b> 131 <b>RCRA code</b>	ausea, vomitin usness. hrough skin w disposal. ations may a contract with D lbs (45.4 k	g and diarrhea. T ith toxic effects. pply to empty co a licensed cher g) Ma NDSL	These symptoms may be foll ontainer. State and/or loc mical disposal agency. rine pollutant: Yes CA Prop 65 ▲ WARNING -Cancer -

dent 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

# SAFETY DATA SHEET

Page E1 of E2

Section 1

Identification

### INNOVATING SCIENCE® by Aldon 221 Rov Avon, N

"Cutting edge science for the classroom"

A10011 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

# CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

SODIUM POLYSULFIDE SOLUTION Product Synonyms **Disodium Polysulfide Solution** Section 2 Hazards identification Signal word: DANGER Precautionary statement: Pictograms: GHS05 / GHS06 / GHS09 P260: Do not breathe mist/vapours/spray. Target organs: Central nervous system, Gastrointestinal system, Respiratory system P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P330+P331: Rinse mouth. Do NOT induce vomiting. GHS Classification: P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated Acute toxicity, inhalation (Category 3) clothing. Rinse skin with water/shower. Skin irritation (Category 1B) P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for Acute aquatic (Category 1) breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove GHS Label information: Hazard statement: contact lenses, if present and easy to do. Continue rinsing. H301. Toxic if swallowed P363: Wash contaminated clothing before reuse. H314: Causes severe skin burns and eye damage. P391: Collect spillage. H400: Very toxic to aquatic life. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. Supplementary information: EUH031: Contact with acids liberates toxic gas. 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	
Water Sodium polysulfide		7732-18-5 1344-08-7	80% 20%	231-791-2 215-686-9	
Section 4	First aid measures				

**INGESTION:** 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: 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 BURNS. 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: CAUSES BURNS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

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.

# 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: 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 and 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 from freezing.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Sodium polysulfide	Not established	Not established	Not established

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							
Appearance: Li	Physical and chemical pr	operties					
Odor: Foul, hydr Odor threshold: pH: Data not ava Melting / Freezing p	oint: Approximately 0°C (32°F) (water) proximately 100°C (212°F) (water)	Flammability Explosion lim Vapor pressur Vapor density Relative density	ate (Water = 1): <1 (solid/gas): Data not : its: Lower / Upper: D re (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): Appr : Complete in water.	Data not available r)	Auto-igni Decompo Viscosity Molecular		e: Data not available ure: Data not available. ble. re
Section 10	Stability and reactivity						
Chemical stabili Conditions to av	ty: Stable roid: Excessive temperatures which		bus polymerization: Nation. Protect from free:				
Incompatible ma	terials: Strong oxidizers. Contac	with acids libera	tes toxic hydrogen sulf	ide gas. Corrodes m	etals.		
Hazardous deco	mposition products: Sulfur oxide	es. Reacts wtih m	etals to form flammabl	e and explosive hyd	rogen sulfide	gas.	
Section 11	Toxicological information	I					
Respiratory or s Germ cell mutag Carcinogenity: NTP: No compon IARC: No compon OSHA: No compon Ca Prop 65: This Reproductive to STOT-single exp STOT-repeated of Aspiration hazar Potential health Inhalation: Inhalai Ingestion: Ingesti	hage/irritation: Eyes-rabbit - Sever kin sensitization: Data not availa genicity: Data not available Data not available ent of this product present at levels nent of this product present at level product does not contain any cher xicity: Data not available posure: Data not available posure: Data not available payposure: Data not available effects: tion of Sodium polysulfide vapors can on of this material is corrosive to th n be corrosive to the skin with sym n be corrosive to the eyes resultin	ble s greater than or e is greater than or els greater than o nicals known to th n cause respiratory e tissues with whi ptoms of itching, g in burns, itching	equal to 0.1% is identi r equal to 0.1% is identi e State of California to y tract irritation with sym ch it comes in contact v redness, swelling, and	fied as probable, pos tified as a carcinoger cause cancer or rep ptoms of coughing, ch vith. Ingestion may c burns. d clouding of the corr	ssible or confi n or potential roductive tox noking, runny ause burning nea.	irmed human car carcinogen by O icity. nose, and possible pain in the mouth	SHA. e burns of the mucous membrar n, throat, esophagus and abdor
Eyes: Contact ca Signs and symp not available. Ex	toms of exposure: To the best of ercise appropriate procedures to n nation: RTECS #: None listed			nd toxicological prop		lot been thorough	nly investigated. Specific data
Eyes: Contact ca Signs and symp not available. Ex Additional inform Section 12	toms of exposure: To the best of ercise appropriate procedures to m nation: RTECS #: None listed Ecological information			nd toxicological prop		or been thorough	ıly investigated. Specific data
Eyes: Contact ca Signs and symp not available. Ex Additional infor Section 12 Toxicity to fish: Toxicity to daphe Toxicity to algae Persistence and Mobility in soil: Other adverse efforts.	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c	iinimize potential es: No data avail Bioaccumu PBT and v	hazards. able ulative potential: No PvB assessment: No	data available data available			ly investigated. Specific data
Eyes: Contact ca Signs and symp not available. Ex Additional inforn Section 12 Toxicity to fish: Toxicity to daphe Toxicity to algae Persistence and Mobility in soil: Other adverse ef Section 13	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c Disposal considerations	inimize potential es: No data avail Bioaccum PBT and v annot be excluded	hazards. able ulative potential: No PvB assessment: No d in the event of unprof	data available data available fessional handling or	disposal.		
Eyes: Contact ca Signs and symp not available. Ex Additional inform Section 12 Toxicity to fish: Toxicity to daphe Toxicity to algae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c	inimize potential es: No data avail Bioaccum PBT and v annot be excluded disposal of cata	hazards. able ulative potential: No PvB assessment: No d in the event of unprof log-size quantities o	data available data available fessional handling or nly. Federal regula	disposal. ations may a	apply to empty o	container. State and/or loc
Eyes: Contact ca Signs and symp not available. Ex Additional inform Section 12 Toxicity to fish: Toxicity to daphe Toxicity to algae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c Disposal considerations guidelines are intended for the	inimize potential es: No data avail Bioaccum PBT and v annot be excluded disposal of cata	hazards. able ulative potential: No PvB assessment: No d in the event of unprof log-size quantities o	data available data available fessional handling or nly. Federal regula	disposal. ations may a	apply to empty o	container. State and/or loca
Eyes: Contact ca Signs and symp not available. Ex Additional inforn Section 12 Toxicity to fish: Toxicity to daphe Toxicity to algae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class:	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c Disposal considerations guidelines are intended for the be different. Dispose of in acc Transport information r: UN1760 Shipping	es: No data avail Bioaccum PBT and v annot be excluded disposal of cata ordance with all name: Corros group: II	hazards. able <b>PvB assessment:</b> No d in the event of unprot log-size quantities o local, state and fede sive liquids, n.o.s., (\$ <b>Reporta</b>	data available data available fessional handling or nly. Federal regula eral regulations or	disposal. ations may a contract with	apply to empty on a licensed che	container. State and/or loca
Eyes: Contact ca Signs and symp not available. Ex Additional inforn Section 12 Toxicity to fish: Toxicity to daphe Toxicity to daphe Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class: Exceptions: L Section 15	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c Disposal considerations guidelines are intended for the be different. Dispose of in acc Transport information r: UN1760 Shipping 8 Packing g imited quantity equal to or les Regulatory information	es: No data avail Bioaccum PBT and v annot be excluded disposal of cata ordance with all name: Corros group: II s than 1 L	hazards. able <b>PvB assessment:</b> No d in the event of unprof log-size quantities o local, state and fede sive liquids, n.o.s., ( <b>Reportal</b> <b>2020 ER</b>	data available data available fessional handling or nly. Federal regula eral regulations or Sodium hydroxide <b>ble Quantity:</b> No	disposal. ations may a contract with	apply to empty on a licensed che	container. State and/or loca emical disposal agency.
Eyes: Contact ca Signs and symp not available. Ex Additional inforn Section 12 Toxicity to fish: Toxicity to daphe Toxicity to daphe Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class: Exceptions: L Section 15 A chemical is consid	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c Disposal considerations guidelines are intended for the be different. Dispose of in acc Transport information r: UN1760 Shipping 8 Packing g imited quantity equal to or les Regulatory information lered to be listed if the CAS number for	es: No data avail Bioaccum PBT and v annot be excluded disposal of cata ordance with all name: Corros group: II s than 1 L the anhydrous form	hazards. able <b>PvB assessment:</b> No d in the event of unprof log-size quantities o local, state and fede sive liquids, n.o.s., ( <b>Reportal</b> <b>2020 ER</b> is on the Inventory list.	data available data available fessional handling or nly. Federal regula eral regulations or Sodium hydroxide <b>ble Quantity:</b> No <b>G Guide #</b> 154	disposal. ations may a contract with , Sodium su	apply to empty o h a licensed che Ilfide) Ma	container. State and/or loca emical disposal agency. arine pollutant: No
Eyes: Contact ca Signs and symp not available. Ex Additional inforn Section 12 Toxicity to fish: Toxicity to daphe Toxicity to algae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class: Exceptions: L Section 15	toms of exposure: To the best of ercise appropriate procedures to m mation: RTECS #: None listed Ecological information No data available nia and other aquatic invertebrat : No data available degradability: No data available No data available ffects: An environmental hazard c Disposal considerations guidelines are intended for the be different. Dispose of in acc Transport information r: UN1760 Shipping 8 Packing g imited quantity equal to or les Regulatory information lered to be listed if the CAS number for	es: No data avail Bioaccum PBT and v annot be excluded disposal of cata ordance with all name: Corros group: II s than 1 L	hazards. able <b>PvB assessment:</b> No d in the event of unprof log-size quantities o local, state and fede sive liquids, n.o.s., ( <b>Reportal</b> <b>2020 ER</b>	data available data available fessional handling or nly. Federal regula eral regulations or Sodium hydroxide <b>ble Quantity:</b> No	disposal. ations may a contract with	apply to empty on a licensed che	container. State and/or loca 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