SAFETY DATA SHEET

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Section 1

Identification

INNOVATING SCIENC

"Cutting edge science for the classroom"

by Aldon 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 ETHYL ALCOHOL, DENATURED, 95% | |
|---|---|
| Synonyms Ethanol, Denatured, 95%, Chromatography solvent | |
| Section 2 Hazards identification | |
| Signal word: DANGER Pictograms: GHS02 / GHS06 / GHS08 Target organs: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: Eyes, Central nervous system, Liver, Kidneys. GHS Classification: Flammable liquid (Category 2) Acute toxicity, oral (Category 3) Acute toxicity, inhalation (Category 3) Acute toxicity, inhalation (Category 3) STOT-SE (Category 2) STOT-SE (Category 3) GHS Label information: Hazard statement: H225: Highly flammable liquid and vapour. H311: Toxic in contact with skin. H312: Causes serious eye irritation. H313: Toxic if inhaled. H336: May cause drowsiness or dizziness. H371: May cause damage to organs. | Precautionary statement: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233+P235: Keep container tightly closed. Keep cool. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P260: Do not breathe mist/vapours/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P303+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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. P304+P311: IF exposed or concerned: Call a POISON CENTER or doctor. P337+P313: If eye irritation persists: Get medical attention. P361+P364: Take off immediately all contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish. P403+P405: Store in a well-ventilated place. Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. |

ards not otherwise

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

| CAS # | % | EINECS | | |
|-----------|--|---|---|---|
| 64-17-5 | 80.75 - 81.51% | 200-578-6 | | |
| 67-63-0 | 8.55% | 200-661-7 | | |
| 7732-18-5 | 5.00% | 231-791-2 | | |
| 67-56-1 | 3.80 - 4.08% | 200-659-6 | | |
| 108-10-1 | 0.85 - 0.95% | 203-550-1 | | |
| | | | | |
| | | | | |
| | | | | |
| | 64-17-5 67-63-0 7732-18-5 67-56-1 | 64-17-5 80.75 - 81.51% 67-63-0 8.55% 7732-18-5 5.00% 67-56-1 3.80 - 4.08% | 64-17-5 80.75 - 81.51% 200-578-6 67-63-0 8.55% 200-661-7 7732-18-5 5.00% 231-791-2 67-56-1 3.80 - 4.08% 200-659-6 | 64-17-5 80.75 - 81.51% 200-578-6 67-63-0 8.55% 200-661-7 7732-18-5 5.00% 231-791-2 67-56-1 3.80 - 4.08% 200-659-6 |

Section 4 First aid measures

INGESTION: TOXIC 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: TOXIC 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: TOXIC IN CONTACT WITH 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. 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 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, dry, 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. | Ethanol | STEL: 1000 ppm / 1880 mg/m ³ (A3) | TWA: 1000 ppm / 1900 mg/m ³ | TWA: 1000 ppm / 1900 mg/m ³ | |

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-

| approved respirator | | | , . | | | , | |
|---|---|--|---|---|---|--|---|
| Section 9 | Physical and chemical pr | operties | | | | | |
| Appearance: Clear Odor: Mild characte Odor threshold: D. pH: Data not availa Melting / Freezing J Boiling point: 74-8 Flash point: 5°C (4 | eristic odor. ata not available. ble. point: -114°C (-173°F)* 0°C (165.2-176°F)* | Flammability (Explosion lim Vapor pressur Vapor density Relative density | ate (Butyl acetate = 1) (solid/gas): Data not a its: Lower / Upper: 4 re (mm Hg): Ca 50 @ (Air = 1): Ca 1.5* (Specific gravity): 0.7918 : Soluble in water. | available. .0%(V) / 20.0%(V)* 20°C* | Auto-igniti Decompos Viscosity: Molecular | ion temperature: | e: Data not available. |
| Section 10 | Stability and reactivity | | | | 1 | | |
| Incompatible mate | Stable d: Excessive temperatures, hea rials: Strong oxidizers, inorgani position products: Oxides of c | t, sparks, open fl c acids and halog | | | | | |
| Section 11 | Toxicological information | I | | | | | |
| Respiratory or skin Germ cell mutager Carcinogenity: Da NTP: No componen IARC classified: Gro OSHA: No componen CA Prop 65: WAA cancer and birth del Reproductive toxido STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Inhalatic Ingestion: Ingestion Skin: Contact with Eyes: Contact with Signs and sympto | t of this product present at levels bup 3: Not classifiable as to its ca ent of this product present at level RNING! : This product can exposi fects or other reproductive harm. city: Data not available sure: The substance or mixture posure: Data not available Data not available | ble s greater than or or arcinogenicity to l els greater than c se you to chemica is classified as sp ess, nausea, vor decreased reaction prolonged conta health effects ab | humans. [Isopropanol] r equal to 0.1% is iden als including Methanol becific target organ tox niting, inability to conce on, euphoria, nausea, v ict. | tified as a carcinoge and Methyl isobutyl l icant, single exposur entrate and irritation | n or potential ketone, which re, category 3 of the throat. | carcinogen by OSI are known to the S with narcotic effec | State of California to cause |
| Section 12 | Ecological information | | | | | | |
| Toxicity to daphnia Toxicity to algae: O Persistence and de Mobility in soil: No Other adverse effe Section 13 | cts: An environmental hazard ca Disposal considerations | es: Daphnia mag C50 = 9,310 mg/l Bioaccum PBT and v annot be exclude | gna (Crustacia), EC50 /growth rate [Ethanol, a ulative potential: No PvB assessment: No d in the event of unpro | = 10,800 mg/l/24 hot bsolute] data available data available fessional handling of | r disposal. | | |
| These disposal gur regulations may b | idelines are intended for the e different. Dispose of in acc | disposal of cata ordance with al | alog-size quantities o I local, state and fed | nly. Federal regulations or | ations may a contract with | pply to empty co a licensed cher | ntainer. State and/or local nical disposal agency. |
| Section 14 | Transport information | | | | | | |
| UN/NA number: Hazard class: 3 Exceptions: Lin | UN1170 Shipping Packing g nited quantity equal to or less | | Reportal | ble Quantity: 5,0 G Guide # 127 | 00 lbs (2270 |) kg) Mar | ine pollutant: No |
| Section 15 | Regulatory information | | | | | | |
| | ed to be listed if the CAS number for | | | DODA . | DC: | NDO | 04 D |
| Compon | ent | TSCA | CERLCA (RQ) | RCRA code | DSL | NDSL | |
| Ethanol Methanol Isopropanol | | Listed Listed Listed | Not listed 5,000 lbs. Not listed | D001 U154 Not listed | Listed Listed Listed | Not listed Not listed Not listed | A WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov. |
| Section 16 | Other information | | | | | | |
| The information contain | ned herein is furnished with out wome | ntu of any kind En | بني منطاح ممير إم الريم طم معمر رما مع | formation only as a su | malanaant ta ath | an information anthon | and the state of the second |

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

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

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

| Product FINGERPRINT POWDER, BLACK | | |
|--|----------|---|
| Product FINGERPRINT POWDER, BLACK | | |
| Synonyms Black Fingerprint Powder | | |
| Section 2 Hazards identification | | |
| This substance or mixture has not been classified a to the Globally Harmonized System (GHS) of Classif Chemicals. Signal word: Not classified Pictograms: Not classified Target organs: Lungs GHS Classification: Not classified | | Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. |
| GHS Label information: Hazard statement(s): Not cla | assified | |
| | | |

Hazards not otherwise classified:

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

| Section 3 | Composition / information on | ingredients | | | |
|--------------------------|------------------------------|-------------|--------|-----------|--|
| Chemical Name | | CAS # | % | EINECS | |
| Carbon black* | | 1333-86-4 | 15-25% | 215-609-9 | |
| *(contains other inert i | ingredients) | | | | |
| Section 4 | First aid measures | | | | |

First aid measures Section 4

INGESTION: 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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: 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: 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: This product may contain residual oxygenated volatiles which can further react and generate heat. It may not be obvious that material is burning unless it is stirred and sparks are apparent.

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: Recover for use if not contaminated. 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 dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

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

| Section 8 | Exposure controls / personal prot | ection | | |
|------------------|-----------------------------------|---------------------------------|----------------------------|----------------------------|
| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) |
| Exposure Linits. | Carbon black | TWA: 3 I mg/m ³ (A3) | TWA: 3.5 mg/m ³ | TWA: 3.5 mg/m ³ |

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

| Section 9 Appearance: Solid, Odor: Negligible od Odor threshold: Da | Physical and chemical pro | | | | | | |
|---|---|---|--|--|--|--|---|
| Odor: Negligible od | | operties | | | | | |
| pH: Data not availal | or. ata not available. ble point: Data not available not available | Flammability (Explosion limi Vapor pressur Vapor density Relative densi | tte (= 1): Data not a solid/gas): Data not a ts: Lower / Upper: D e (mm Hg): Data not a (Air = 1): Data not av ty (Specific gravity): Negligible in water | available. lata not available available ailable | Auto-igniti Decompos Viscosity: Molecular | | Data not available e: Data not available e. |
| Section 10 | Stability and reactivity | | | | | | |
| Chemical stability: Conditions to avoid | | | ous polymerization: \ ame and other sources | | | | |
| | rials: Excessive heat (230°F) an | | | 0 | | | |
| Hazardous decom | oosition products: Oxides of ca | irbon. | | | | | |
| Section 11 | Toxicological information | | | | | | |
| Skin corrosion/irrit Serious eye damag Respiratory or skin Germ cell mutagem Carcinogenity: Da NTP: No component IARC classified: Gro OSHA: No component CA Prop 65: A WAR Reproductive toxic STOT-single exposs STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May cau Ingestion: Not expe Skin: Repeated or p Eyes: May cause di Signs and symptor Specific data is not a | t of this product present at levels up 2B: Possibly carcinogenic to l ent of this product present at leve RNING! :This product can expose ity: Data not available ure: Data not available Data not available Data not available ects: se physical discomfort to the res cted to be toxic by ingestion. prolonged contact may cause der | greater than or e numans. (Carbor Is greater than or you to Carbon E piratory tract. matitis and defat our knowledge th se appropriate pr | hblack) • equal to 0.1% is ident Black, which is known t ting. • chemical, physical a | ified as a carcinoge o the State of Califo nd toxicological prop | n or potential a | carcinogen by OS cancer. | |
| Additional information Section 12 | Ecological information | | | | | | |
| Section 12 Toxicity to fish: Br Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No | gradability: No data available o data available | es: Daphnia mag Bioaccum PBT and v | na (Crustacea) EC50 ulative potential: No PvB assessment: No | = >5,600 mg/l/24 hoi data available data available | , | lack) | |
| Section 12 Toxicity to fish: Br Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effet | achydanio rerio (fish, freshwater) a and other aquatic invertebrate lo data available egradability: No data available o data available cts: An environmental hazard ca | es: Daphnia mag Bioaccum PBT and v | na (Crustacea) EC50 ulative potential: No PvB assessment: No | = >5,600 mg/l/24 hoi data available data available | , | lack) | |
| Section 12 Toxicity to fish: Br Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu regulations may be Section 14 UN/NA number: | achydanio rerio (fish, freshwater) and other aquatic invertebrate lo data available gradability: No data available o data available cts: An environmental hazard ca Disposal considerations idelines are intended for the c e different. Dispose of in acco Transport information Not applicable Shipp | Bioaccum PBT and v Innot be excluder disposal of cata ordance with all bing name: N | na (Crustacea) EC50 ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities o local, state and fede lot Regulated | = >5,600 mg/l/24 hor data available data available fessional handling of nly. Federal regul eral regulations or | disposal. ations may a contract with | pply to empty co | |
| Section 12 Toxicity to fish: Br Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu regulations may be Section 14 | achydanio rerio (fish, freshwater) and other aquatic invertebrate lo data available gradability: No data available o data available cts: An environmental hazard ca Disposal considerations idelines are intended for the c e different. Dispose of in acco Transport information Not applicable Shipp ot applicable Pack | Bioaccum PBT and v Innot be excluder disposal of cata ordance with all Ding name: N ing group: N | na (Crustacea) EC50 ulative potential: No PvB assessment: No d in the event of unpro- log-size quantities o local, state and fede lot Regulated | = >5,600 mg/l/24 hor data available data available fessional handling or nly. Federal regula | disposal. ations may a contract with | pply to empty co a licensed cher | |
| Section 12 Toxicity to fish: Br Toxicity to daphnia Toxicity to dapania Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu regulations may be Section 14 UN/NA number: Hazard class: No Exceptions: No Section 15 | achydanio rerio (fish, freshwater) and other aquatic invertebrate lo data available gradability: No data available o data available cts: An environmental hazard ca Disposal considerations idelines are intended for the c e different. Dispose of in acco Transport information Not applicable Shipp ot applicable Pack t applicable 2020 Regulatory information | es: Daphnia mag Bioaccum PBT and v Innot be excluded disposal of cata ordance with all Ding name: N ing group: N ERG Guide # | na (Crustacea) EC50 = Ilative potential: No PvB assessment: No d in the event of unpro log-size quantities o local, state and fede lot Regulated ot applicable Not applicable | = >5,600 mg/l/24 hor data available data available fessional handling of nly. Federal regul eral regulations or | disposal. ations may a contract with | pply to empty co a licensed cher | nical disposal agency. |
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| Section 12 Toxicity to fish: Br Toxicity to daphnia Toxicity to dapania Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu regulations may be Section 14 UN/NA number: Hazard class: No Exceptions: No Section 15 | achydanio rerio (fish, freshwater) and other aquatic invertebrate lo data available gradability: No data available o data available cts: An environmental hazard ca Disposal considerations idelines are intended for the of e different. Dispose of in acco Transport information Not applicable Shipp ot applicable Pack t applicable 2020 Regulatory information ed to be listed if the CAS number for the | es: Daphnia mag Bioaccum PBT and v Innot be excluded disposal of cata ordance with all Ding name: N ing group: N ERG Guide # | na (Crustacea) EC50 = Ilative potential: No PvB assessment: No d in the event of unpro log-size quantities o local, state and fede lot Regulated ot applicable Not applicable | = >5,600 mg/l/24 hor data available data available fessional handling of nly. Federal regul eral regulations or | disposal. ations may a contract with | pply to empty co a licensed cher | nical 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