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Chromatography Solvent

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Chromatography Solvent

Manufacturer/Supplier Article number: CH1910SS

Recommended uses of the product and restrictions on use: Laboratory Chemicals

Manufacturer Details:

AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 1-717-632-1291

Emergency telephone number:

ChemTel: (24-hour)

+1(800)255-3924

+1(813)248-0585 (International)

SECTION 2: Hazards identification

Classification of the substance or mixture:



Flammable

Flammable liquids, category 3



Corrosive

Serious eye damage, category 1 Skin corrosion, category 1B



Irritant

Specific target organ toxicity following single exposure, category 3

Acute Tox. 4 (Oral).

Eye Dam. 1.

STOT SE 3, Central nervous system, Respiratory system.

Skin Corr. 1B. Flam. Liq. 3.

Signal word: Danger

Hazard statements:

Flammable liquid and vapour.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Harmful if swallowed.

Precautionary statements:

If medical advice is needed have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Use only outdoors or in a well-ventilated area.

Do not eat, drink or smoke when using this product.

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Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/light/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash skin thoroughly after handling.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Rinse mouth.

DO NOT induce vomiting.

In case of fire, use agents recommended in section 5 for extinction.

Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Specific treatment (see supplemental first aid instructions on this label).

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Store in a well ventilated place. Keep cool.

Store in a well ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents and container to an approved waste disposal plant.

Other Non-GHS Classification: None

SECTION 3: Composition/information on ingredients

Ingredients:

ingredients:				
Ingredients:				
CAS 71-36-3	Butanol	24.87 %		
CAS 64-17-5	Ethanol	30.38 %		
CAS 64-19-7	Acetic Acid	16.17 %		
CAS 7732-18-5	Deionized Water	28.59 %		
		Percentages are by weight		

SECTION 4: First aid measures

Description of first aid measures

After inhalation:

Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Loosen clothing and place exposed in a comfortable position. Seek immediate medical assistance.

After skin contact:

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

After eye contact:

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Protect unexposed eye. Flush exposed eye gently using water for 15-20 minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Seek immediate medical assistance.

After swallowing:

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical assistance.

Most important symptoms and effects, both acute and delayed:

Irritation. Shortness of breath. Headache. Nausea. Dizziness.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors. Flash back possible over considerable distance.

Advice for firefighters:

Protective equipment:

Wear protective eyeware, gloves, and clothing. Refer to Section 8.

Additional information (precautions):

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes and clothing. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational. Avoid contact with eyes, skin, and clothing.

Environmental precautions:

Should not be released into environment. Prevent from reaching drains, sewer, or waterway. Ethanol has a slight acute and chronic toxicity to aquatic life. Avoid runoff into storm sewers and ditches which lead to waterways.

Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Ventilate area of spill. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Refer to Section 8. Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Remove all sources of ignition. Use non-sparking equipment. Ventilate area of spill.

Reference to other sections: None SECTION 7: Handling and storage

Precautions for safe handling:

Avoid contact with skin, eyes and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances. Keep away from ignition sources. Use non-sparking equipment. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use

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only with adequate ventilation. Remove contaminated clothing immediately. Refer to Section 13.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials. Keep away from ignition sources. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection







Control parameters: 71-36-3, Butanol, ACGIH TLV TWA 60 mg/m3 (20 ppm).

71-36-3, Butanol, OSHA REL C 150 mg/m3 (50 ppm). 71-36-3, Butanol, OSHA PEL TWA 300 mg/m3 (100 ppm).

64-17-5, Ethanol, ACGIH TLV TWA: 1,900 mg/m³. 64-17-5, Ethanol, OSHA PEL TWA 1,900 mg/m³. 64-19-7, Acetic Acid, OSHA PEL TWA 25 mg/m³. 64-19-7, Acetic Acid, ACGIH TLV TWA 25 mg/m³.

Appropriate engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate

use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When

necessary use NIOSH approved breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU).

Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and

immediately after handling the product. Avoid contact with skin, eyes and

clothing. Before re-wearing, wash contaminated clothing.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):		•	Not determined Not determined
Odor:	Strong characteristic odor	Vapor pressure at 20°C:	Not determined
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value:	Not determined	Relative density:	Not determined
Melting/Freezing point:	Not determined	Solubilities:	Slightly soluble.

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Boiling point/Boiling range:	INOT GETERMINEG	Partition coefficient (noctanol/water):	Not determined	
Flash point (closed cup):		Auto/Self-ignition temperature:	Not determined	
Evaporation rate:	INAT ADTORMINDA	Decomposition temperature:	Not determined	
Flammability (solid, gaseous):	Flammable	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined	
Density at 20°C:	Not determined			

SECTION 10: Stability and reactivity

Reactivity:

Nonreactive under normal conditions.

Chemical stability:

Stable under normal conditions.

Possible hazardous reactions:

None under normal processing. Vapours may form explosive mixture with air.

Conditions to avoid:

Incompatible materials. Excess heat. Open Flames. Confined spaces.

Incompatible materials:

Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g.potassium permanganate, Amines, Alcohols, Nitric acid. Alkali metals, Bases, Strong acids, Halogens.

Hazardous decomposition products:

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, ammonia and nitrogen oxides.

SECTION 11: Toxicological information

Acute Toxicity:

Dermal:

Butanol LD50 Rabbit - 3,400 mg/kg. Acetic Acid LD50 Rabbit - 1,112 mg/kg.

Chronic Toxicity: No additional information.

Skin corrosion/irritation:

Butanol Rabbit: irritation - 24hr.

Serious eye damage/irritation:

Butanol Rabbit: Blindness. Acetic Acid Rabbit: Corrosive.

Respiratory or skin sensitization: No additional information.

Carcinogenicity:

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP. :

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Germ cell mutagenicity: No additional information. **Reproductive Toxicity**: No additional information.

STOT-single and repeated exposure:

May cause respiratory irritation May cause drowsiness or dizziness.

Additional toxicological information:

No additional information.

SECTION 12: Ecological information

Ecotoxicity: No additional information. **Persistence and degradability**:

Readily degradable in the environment.

Bioaccumulative potential:

Bioaccumulation is expected to be low.

Mobility in soil:

No information Available.

Other adverse effects:

None identified.

SECTION 13: Disposal considerations

Waste disposal recommendations:

Contact a licensed professional waste disposal service to dispose of this material. Dispose of empty containers as unused product. Product or containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information

US DOT

UN Number:

ADR, ADN, DOT, IMDG, IATA 1120

Limited Quantity Exception: None

Bulk: Non Bulk:

RQ (if applicable): None RQ (if applicable): None

Proper shipping Name: Butanols.

Hazard Class: 3

Proper shipping Name: Butanols.

Hazard Class: 3

Packing Group: |||. Packing Group: |||.

Marine Pollutant (if applicable): No Marine Pollutant (if applicable): No

additional information. additional information. **Comments:** None **Comments:** None

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SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic, Fire

SARA Section 313 (Specific toxic chemical listings):

71-36-3 Butanol.

RCRA (hazardous waste code):

71-36-3 Butanol - U031.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

71-36-3 Butanol 5000 lbs. 64-19-7 Acetic Acid 5000 lbs.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

NFPA: 3-0-0 **HMIS**: 3-0-0

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GHS Full Text Phrases: None

Abbreviations and Acronyms: None