

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.19.2015

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Benzyl Alcohol

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

Product name : Benzyl Alcohol

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25666A

Recommended uses of the product and uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

SECTION 2 : Hazards identification

Classification of the substance or mixture:



Irritant

Acute toxicity (oral, dermal, inhalation), category 4
Skin irritation, category 2



Environmentally Damaging

Acute hazards to the aquatic environment, category 2

AcTox Oral. 4
AcTox Inhaln. 4
AcTox Dermal. 4
Skin Irrit. 2
Aquatic AcTox. 2

Signal word :Warning

Hazard statements:

Harmful if swallowed
Harmful in contact with skin
Harmful if inhaled
Causes skin irritation
Toxic to aquatic life

Precautionary statements:

If medical advice is needed, have product container or label at hand
Keep out of reach of children
Read label before use
Avoid breathing dust/fume/gas/mist/vapours/spray
Wash ... thoroughly after handling
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area

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Avoid release to the environment

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

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

Rinse mouth

IF ON SKIN: Wash with soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

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

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Dispose of contents/container to ...

Other Non-GHS Classification:

WHMIS



NFPA/HMIS



NFPA SCALE (0-4)

Health	2
Flammability	1
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3 : Composition/information on ingredients

Ingredients:		
CAS 100-51-6	Benzyl Alcohol	>95 %
Percentages are by weight		

SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Immediately get medical assistance.

After skin contact: Wash hands and exposed skin with soap and plenty of water for 15-20 minutes. Get medical assistance.

After eye contact: Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing. Get medical assistance.

After swallowing: Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a

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physician or Poison Control immediately.

Most important symptoms and effects, both acute and delayed:

Irritation.Headache.Nausea.Shortness of breath.;May cause defatting of dermal skin layers.

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.

For safety reasons unsuitable extinguishing agents: None.

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.Combustible liquid. Containers may explode when heated.Keep product and empty container away from sources of ignition and heat.

Advice for firefighters:

Protective equipment: Wear protective eyewear, 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.Remove all sources of ignition. Take measures against static discharge.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.Ensure that air-handling systems are operational.

Environmental precautions:

Should not be released into environment.Prevent from reaching drains, sewer, or waterway.

Methods and material for containment and cleaning up:

Wear protective eyewear, gloves, and clothing. Refer to Section 8.Provide ventilation. Use spark-proof tools and explosion-proof equipment.Always obey local regulations. If necessary use trained response staff or contractor. Clean up spills immediately observing precautions. Refer to Section 5.Absorb with inert material and containerize for disposal. Sweep up and containerize for disposal. Follow proper disposal methods. Refer to Section 13.

Reference to other sections:

SECTION 7 : Handling and storage

Precautions for safe handling:

Keep product and empty container away from heat and sources of ignition.Avoid contact with skin, eyes, and clothing.Do not inhale gases, fumes, dust, mist, vapor, and aerosols. Use under a fume hood.Wash hands before breaks and immediately after handling the product.Use spark-proof tools and explosion-proof equipment.

Conditions for safe storage, including any incompatibilities:

Storage class (TRGS 510): Combustible liquids. Store in cool, dry area.Keep away from open flames, hot surfaces, and sources of ignition. 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. Store in cool, dry area.

SECTION 8 : Exposure controls/personal protection

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Control Parameters:	100-51-6, Benzyl alcohol , TWA 10.000000 ppm USA. Workplace Environmental Exposure Levels (WEEL)
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:	Use under a fume hood. A full face piece respirator equipped with organic vapor cartridge should be worn if exposure limit is exceeded.
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 at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

SECTION 9 : Physical and chemical properties

Appearance (physical state,color):	Clear colorless liquid	Explosion limit lower:	1.3%
		Explosion limit upper:	13%
Odor:	Odorless	Vapor pressure:	0.13 mbar @ 20°C
Odor threshold:	Not Determined	Vapor density:	3.72 (air = 1)
pH-value:	Not Determined	Relative density:	1.045 g/mL at 25°C
Melting/Freezing point:	-15°C	Solubilities:	Soluble in water: 33 g/l at 20°C
Boiling point/Boiling range:	205°C	Partition coefficient (n-octanol/water):	Not Determined
Flash point (closed cup):	96°C	Auto/Self-ignition temperature:	435°C
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability (solid,gaseous):	Flammable	Viscosity:	a. Kinematic: Not Determined b. Dynamic: Not Determined
Density: Not Determined			

SECTION 10 : Stability and reactivity

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Reactivity: Nonreactive under normal conditions.

Chemical stability: Air sensitive.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Incompatible materials. Excessive heat. Exposure to moisture or water.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Carbon oxides. Acrid smoke and fumes.

SECTION 11 : Toxicological information

Acute Toxicity:		
Oral:	100-51-6	LD50 Oral - Rat - 1,230 mg/kg
Dermal:	100-51-6	LD50 Dermal - Rabbit - 2,000 mg/kg
Inhalation:	100-51-6	LC50 Inhalation - Rat - 8.8mg/L/4h
Chronic Toxicity: No additional information.		
Corrosion Irritation:		
Dermal:	100-51-6	Skin - Rabbit Result: Irritating to skin. - 24 h
Sensitization:		No additional information.
Single Target Organ (STOT):		No additional information.
Numerical Measures:		No additional information.
Carcinogenicity:		No additional information.
Mutagenicity:		No additional information.
Reproductive Toxicity:		100-51-6: Reproductive effects have been observed in experimental animals.

SECTION 12 : Ecological information

Ecotoxicity

Toxicity to fish LC50 - *Lepomis macrochirus* (Bluegill) - 10 mg/l - 96 h: 100-51-6

Toxicity to daphnia and other aquatic invertebrates EC50 - *Daphnia magna* (Water flea) - 55 mg/l - 24 h: 100-51-6

Persistence and degradability: Biodegradability Biotic/Aerobic - Exposure time 28 d Result: 92 - 96 % - Readily biodegradable

Bioaccumulative potential:

Mobility in soil:

Other adverse effects: 100-51-6: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

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 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

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hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14 : Transport information

UN-Number

3334

UN proper shipping name

A Aviation regulated liquid, n.o.s. (Benzyl alcohol)

Transport hazard class(es)



Class:

9 Miscellaneous dangerous substances and articles

Packing group:III

Environmental hazard:

Transport in bulk:

Special precautions for user:

SECTION 15 : Regulatory information

United States (USA)

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

Acute, Chronic

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

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None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

100-51-6 Benzyl Alcohol

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.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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