

Revision Date: 04-28-2020

# SAFETY DATA SHEET

According to US Regulation 29 CFR 1910.1200 (HazCom 2012)

# 1. Identification

Product identifier: Benzyl Alcohol

Other means of identification

**Product No.:** 1403, 1816, 9039, 9040, 9041, 9050, 9421, BS06, 71083

Recommended restrictions

Recommended use: For Laboratory, Research or Manufacturing Use.

Restrictions on use: Not determined.

Details of the supplier of the safety data sheet

Company Name: Avantor Performance Materials, LLC

Address: 100 Matsonford Rd, Suite 200

Radnor, PA 19087

Telephone: Customer Service: 855-282-6867

Contact Person: Product Information Compliance E-mail: info@avantormaterials.com

**Emergency telephone number:** 

CHEMTREC: 1-800-424-9300 within US and Canada (24 hrs/day, 7 days/week)

#### 2. Hazard(s) identification

## **Hazard Classification**

#### **Health Hazards**

Acute toxicity (Oral) Category 4
Acute toxicity (Inhalation - vapor) Category 4

#### **Unknown toxicity - Health**

Acute toxicity, inhalation, vapor 100 %

#### **Label Elements**

#### **Hazard Symbol:**



Signal Word: Warning

**Hazard Statement:** Harmful if swallowed. Harmful if inhaled.



Revision Date: 04-28-2020

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Wash hands thoroughly

after handling. Do not eat, drink or smoke when using this product. Use only

outdoors or in a well-ventilated area.

Response: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse

mouth. IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER/doctor if you feel unwell.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.

## 3. Composition/information on ingredients

#### **Substances**

Chemical Identity	CAS number	Content in percent (%)*
Benzyl alcohol	100-51-6	99 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.

**Inhalation:** Move to fresh air. Call a POISON CENTER/doctor if you feel unwell.

**Skin Contact:** Wash skin thoroughly with soap and water. Call a POISON CENTER/doctor

if you feel unwell. Wash contaminated clothing before reuse.

**Eye contact:** Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

**Symptoms:** Harmful if swallowed. Harmful if inhaled.

Hazards: None known.

Indication of immediate medical attention and special treatment needed

**Treat symptomatically.** Symptoms may be delayed.

# 5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.



Revision Date: 04-28-2020

## Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Extinguish with foam, carbon dioxide or dry powder. Do not use water jet as

an extinguisher, as this will spread the fire.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

#### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate

protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Dike far ahead of larger spill for later recovery and

disposal.

**Notification Procedures:** Stop the flow of material, if this is without risk, Dike for later disposal,

Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

# 7. Handling and storage

Precautions for safe handling: Avoid contact with eyes, skin, and clothing. Avoid breathing substance. Do

not taste or swallow. Use personal protective equipment as required. Wash

hands thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Keep away from food, drink and animal feeding stuffs. Store in tightly closed original container in a dry, cool and well-ventilated place.

#### 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.

**Appropriate Engineering** 

Controls

No data available.



Revision Date: 04-28-2020

#### Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the

immediate work area.

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin Protection** 

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Provide eyewash station and safety shower. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

## 9. Physical and chemical properties

**Appearance** 

Physical state: Liquid Form: Liquid Color: Colorless Odor: Mild. Aromatic **Odor threshold:** No data available. pH: No data available. Melting point/freezing point: -15.4 - -15.2 °C Initial boiling point and boiling range: 205.3 - 205.7 °C Flash Point: 100.4 °C (Closed Cup)

Evaporation rate: No data available. Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

No data available.

No data available.

No data available.

No data available.

Vapor pressure: 0.01253 kPa (25 °C) 0.67 hPa (50 °C)

Vapor density: 3.72 (Air=1)

**Density:** 1.05 g/ml (20 °C) 1.03 g/ml (40 °C)

Relative density: 1.05 (20 °C)

Solubility(ies)

Solubility in water: 40 g/l (25 °C)
Solubility (other): acetone: Soluble ethanol: Soluble

ether: Soluble

Partition coefficient (n-octanol/water): 1.10

Auto-ignition temperature: 436 °C

**Decomposition temperature:** No data available.



Revision Date: 04-28-2020

Viscosity: No data available.

Other information

Liquid conductivity:18 μS/cm (25 °C)Molecular weight:108.14 g/mol (C7H8O)

# 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

Conditions to avoid: Heat, sparks, flames. Contact with incompatible materials. Keep away from

sources of ignition - No smoking.

**Incompatible Materials:** Acids. Oxidizing agents. Aluminum.

**Hazardous Decomposition** 

Products:

Thermal decomposition may release oxides of carbon.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation:** Harmful if inhaled.

**Skin Contact:** Prolonged skin contact may cause temporary irritation. May be harmful in

contact with skin.

**Eye contact:** May cause temporary eye irritation.

**Ingestion:** Harmful if swallowed.

#### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): 1,230 - 3,100 mg/kg

NOAEL (Rat): 1,045 mg/kg

**Dermal** 

Product: LD 50 (Rabbit) 2,000 mg/kg

Inhalation

**Product:** LC 50 (Rat, 4 h) > 4,178 mg/l

NOAEL (Rat, 4 h): 3,297 mg/l

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** Prolonged skin contact may cause temporary irritation.

#### Serious Eye Damage/Eye Irritation



Revision Date: 04-28-2020

**Product:** May cause temporary eye irritation.

Respiratory or Skin Sensitization

**Product:** Not a skin nor a respiratory sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure
Product:
None known.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** None known.

**Aspiration Hazard** 

Product: Not classified

Other effects: None known.

## 12. Ecological information

#### **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

Specified substance(s):

Benzyl alcohol LC 50 (Bluegill (Lepomis macrochirus), 96 h): 10 - 15 mg/l

LC 50 (Fathead minnow (Pimephales promelas), 96 h): 460 mg/l

LC 50 (Oryzias latipes, 96 h): > 100 mg/l

**Aquatic Invertebrates** 

**Product:** No data available.



Revision Date: 04-28-2020

Specified substance(s):

Benzyl alcohol EC 50 (Water Flea, 48 h): 230 mg/l

## Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Specified substance(s):

Benzyl alcohol EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 770 mg/l

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 310 mg/l

#### **Persistence and Degradability**

**Biodegradation** 

**Product:** There are no data on the degradability of this product.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: 1.10

**Mobility in soil:** The product is partly soluble in water. May spread in the aquatic

environment.

Other adverse effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

#### 13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated Packaging:** Since emptied containers retain product residue, follow label warnings even

after container is emptied.

# 14. Transport information

DOT

Not regulated.

**IMDG** 

Not regulated.

IATA

Not regulated.



Revision Date: 04-28-2020

# 15. Regulatory information

#### **US Federal Regulations**

## TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### **Hazard categories**

Acute toxicity (any route of exposure)

#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Benzyl alcohol 10000 lbs.

#### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3):

None present or none present in regulated quantities.

#### **US State Regulations**

#### US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

#### **US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

#### **US. Massachusetts RTK - Substance List**

## **Chemical Identity**

Benzyl alcohol

# US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

Benzyl alcohol

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

# International regulations



Revision Date: 04-28-2020

#### Montreal protocol

Not applicable

#### Stockholm convention

Not applicable

#### Rotterdam convention

Not applicable

#### **Kyoto protocol**

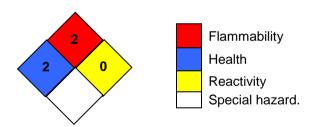
Not applicable

#### **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory China Inv. Existing Chemical Substances: On or in compliance with the inventory On or in compliance with the inventory Japan (ENCS) List: On or in compliance with the inventory Japan ISHL Listing: Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Mexico INSQ: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory On or in compliance with the inventory Philippines PICCS: Taiwan Chemical Substance Inventory: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory

# 16.Other information, including date of preparation or last revision

#### NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

**Issue Date:** 04-28-2020

**Revision Information:** Not relevant.

Version #: 1.5

**Source of information:** Sources of information used in preparing this SDS included one or more of

the following: results from in house or supplier toxicology studies, information from the Toxicology Data Network (TOXNET), European Chemical Agency (ECHA) substance dossiers, IARC Monographs, US National Toxicology Program data, the Agency for Toxic Substances and Disease Registry, other

manufacturer's SDSs and other sources, as appropriate.

Further Information: No data available.



Revision Date: 04-28-2020

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