

SAFETY DATA SHEET



BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

SECTION 1. IDENTIFICATION

Product name : BENZYL ALCOHOL (TECH) NGD

Material number 56704438

Recommended use Intermediate
Solvent

Manufacturer or supplier's

Supplier BVV
1251 Frontenac Road
Naperville, IL 60563

Telephone Phone: 331-281-0154
Email: support@shopbv.com

Emergency telephone VelocityEHS: 800-255-3924

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity (Oral) : Category 4

Eye irritation : Category 2A

GHS label elements

Hazard pictograms



Signal Word : Warning

Hazard Statements : Harmful if swallowed.
Causes serious eye irritation.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear eye protection/ face protection.

Response:

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

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD

Version: 1.0 Revision Date: 10/01/2018 SDS Number: 103000005228 Date of previous issue: -
Country / Language: US / EN

IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.

Disposal:

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

Hazard Not Otherwise Classified (HNOC)

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Substance

CAS-No. 100-51-6

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 90 - <= 100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms appear.
- In case of skin contact : Wash off with soap and plenty of water.
Remove contaminated clothing and shoes.
Continue to rinse for at least 10 minutes.
Get medical attention.
- In case of eye contact : In case of contact, flush eyes with plenty of water for at least 20 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.
Remove contact lenses.
Get medical attention immediately.
- If swallowed : Rinse mouth with water.
Do not induce vomiting. Drink water. Call physician immediately.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms and effects, both acute and delayed

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

- | | |
|----------------------------|---|
| Symptoms | : Eye: Causes irritation with symptoms of reddening, tearing, stinging, and swelling.
Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.
Nausea may occur in workers who consume alcohol after exposure to the product (Antabuse Syndrome).
May cause nervous system effects which can include symptoms of dizziness, incoordination, headache, numbness, and/or confusion. |
| Effects | : Harmful if swallowed.
Causes serious eye irritation. |
| Protection of first-aiders | : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. |
| Notes to physician | : No special actions required.

Treat symptomatically. |

SECTION 5. FIRE-FIGHTING MEASURES

- | | |
|--|--|
| Suitable extinguishing media | : In case of fire, use water spray (fog), foam, dry chemical or CO ₂ . |
| Unsuitable extinguishing media | : High volume water jet |
| Specific hazards during fire fighting | : In a fire or if heated, a pressure increase will occur and the container may burst.
Cool closed containers exposed to fire with water spray. |
| Hazardous combustion products | : Carbon dioxide (CO ₂)
Carbon monoxide |
| Further information | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
No action shall be taken involving any personal risk or without suitable training. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

- | | |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : No action shall be taken involving any personal risk or without suitable training.
Evacuate personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilled material.
Do not breathe vapors or spray mist. |
|---|--|

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

- Provide adequate ventilation.
Put on appropriate personal protection equipment.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so.
Move containers from spill area.
Keep people away from and upwind of spill/leak.
Wash spillages into an effluent treatment plant or proceed as follows:
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Disposed off through appropriate waste disposal carriers/authorities.
Contaminated absorbent material may pose the same hazard as the spilled product.
Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid inhalation, ingestion and contact with skin and eyes.
Use only with adequate ventilation/personal protection.
Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.
Empty containers retain product residue; observe all precautions for product.
Do not re-use empty containers.
Remove contaminated clothing and protective equipment before entering eating areas.
Workers should wash hands and face before eating, drinking and smoking.
Put on appropriate personal protection equipment.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
- Conditions for safe storage : Store in accordance with local regulations.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.
Keep container tightly closed.
Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Do not store in unlabeled containers.
Use appropriate container to avoid environmental contamination.

Recommended storage tem- : < 122 °F (< 50 °C)

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

perature

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Use only with adequate ventilation.
Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

Personal protective equipment

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
When high levels of vapors or aerosols are not controlled by local ventilation, respiratory protection is recommended.
Recommended:
NIOSH approved air-purifying organic vapor and acid gas respirator.

Hand protection

Material : Butyl rubber - IIR
Wearing time : 1 h

Material : Fluorinated rubber - FKM
Wearing time : 1 h

Material : Polyvinyl chloride - PVC
Wearing time : 1 h

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear suitable protective clothing.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
Appropriate techniques should be used to remove potentially contaminated clothing.
Wash contaminated clothing before reusing.
Ensure that eyewash stations and safety showers are close to the workstation location.

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Color	: clear, colorless
Odor	: slight, aromatic
Odor Threshold	: No data available
pH	: No data available
Melting point/range	: 4.3 °F (-15.4 °C)
Boiling point/boiling range	: 401.5 °F (205.3 °C) (1,013 hPa)
Flash point	: 212.7 °F (100.4 °C) Method: closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: 0.07 hPa (68 °F (20 °C))
Relative vapor density	: No data available
Relative density	: No data available
Density	: 1.045 g/cm³ (68 °F (20 °C))
Solubility(ies)	
Water solubility	: 40 g/l
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: 817 °F (436 °C)
Decomposition temperature	: No data available
Viscosity	
Viscosity, dynamic	: 5.84 mPa.s (68 °F (20 °C))

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

Explosive properties : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Continuous exposure to moist air

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Information on likely routes of exposure

Inhalation
Eye contact
Skin contact
Ingestion

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 1,627 mg/kg
Method: Calculation method

Components:

Benzyl alcohol:

Acute oral toxicity : LD50 (Rat, male): 1,620 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 4,178 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Remarks: Highest producible concentration.
Dosage caused no mortality

SAFETY DATA SHEET**BENZYL ALCOHOL (TECH) NGD**

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: Mild skin irritation

Components:**Benzyl alcohol:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

GLP: yes

Remarks: slightly irritant

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Eye irritation

Components:**Benzyl alcohol:**

Species: Rabbit

Result: Irritating to eyes

Exposure time: 24 h

Method: OECD Test Guideline 405

GLP: yes

Remarks: Fully reversible

Respiratory or skin sensitization**Skin sensitization**

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:**Benzyl alcohol:**

Routes of exposure: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: Did not cause sensitization on laboratory animals.

GLP: yes

Routes of exposure: Skin contact

Species: Guinea pig

Result: Did not cause sensitization on laboratory animals.

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD

Version	Revision Date:	SDS Number:	Date of previous issue: -
1.0	10/01/2018	103000005228	Country / Language: US / EN

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzyl alcohol:

Genotoxicity in vitro

Test system: Salmonella typhimurium
 Metabolic activation: with and without metabolic activation
 Method: OECD Test Guideline 471
 Result: positive
 GLP: yes

Test system: mouse lymphoma cells
 Metabolic activation: with metabolic activation
 Method: OECD Test Guideline 476
 Result: negative
 GLP: yes

Test system: mouse lymphoma cells
 Metabolic activation: without metabolic activation
 Method: OECD Test Guideline 476
 Result: positive
 GLP: yes

Test system: Chinese hamster ovary cells
 Metabolic activation: without metabolic activation
 Method: OECD Test Guideline 473
 Result: negative

Test system: Chinese hamster ovary cells
 Metabolic activation: with metabolic activation
 Method: OECD Test Guideline 473
 Result: positive

Genotoxicity in vivo

Species: Mouse (male)
 Cell type: Bone marrow
 Application Route: Intraperitoneal
 Method: OECD Test Guideline 474
 Result: negative

Species: Drosophila melanogaster (vinegar fly)
 Method: OECD Test Guideline 477
 Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Benzyl alcohol:

Species: Rat, (male and female)
 Application Route: Oral

SAFETY DATA SHEET

BENZYL ALCOHOL (TECH) NGD



Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

Exposure time: 103 weeks
Method: OECD Test Guideline 451
Result: negative
GLP: yes

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

Benzyl alcohol:

Effects on fertility

Species: Rat, male and female
Application Route: Oral
Duration of Single Treatment: 13 Weeks
Frequency of Treatment: 5 days/week
General Toxicity Parent: NOAEL: 400 mg/kg body weight
Fertility: NOAEL: 800 mg/kg body weight
GLP: yes

Species: Mouse, male and female
Application Route: Oral
Duration of Single Treatment: 13 Weeks
Frequency of Treatment: 5 days/week
General Toxicity Parent: NOAEL: 200 mg/kg body weight
Fertility: NOAEL: 800 mg/kg body weight
GLP: yes

Species: Rat, male and female
Application Route: Inhalation
Duration of Single Treatment: 4 Weeks
Frequency of Treatment: 5 days/week
General Toxicity Parent: NOAEC: 1,072 mg/m³
Fertility: NOAEL: 1,072 mg/m³
Method: OECD Test Guideline 412
GLP: yes

Effects on fetal development : Species: Mouse
Application Route: Oral
Duration of Single Treatment: 7 Days
General Toxicity Maternal: LOAEL: 750 mg/kg body weight
Developmental Toxicity: LOAEL: 750 mg/kg body weight
GLP: yes

SAFETY DATA SHEET



BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Benzyl alcohol:

Species: Rat, male and female
NOAEL: 400 mg/kg
Application Route: Oral
Exposure time: 103 Weeks
Number of exposures: 5 days/week
Method: OECD Test Guideline 451
GLP: yes
Remarks: Chronic toxicity

Species: Rat, male and female
NOAEC: 1072 mg/m3
Application Route: Inhalation
Test atmosphere: dust/mist
Exposure time: 4 Weeks
Number of exposures: 6 hours/day
Method: OECD Test Guideline 412
GLP: yes
Remarks: Subacute toxicity

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Benzyl alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l
End point: mortality
Exposure time: 96 h
Method: EPA OPP 72-1 (Fish Acute Toxicity Test)
GLP: no

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l
End point: immobilization

SAFETY DATA SHEET



BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

Exposure time: 48 h
Method: OECD Test Guideline 202
GLP: yes

Toxicity to algae : EC50 (*Pseudokirchneriella subcapitata* (microalgae)): 770 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

NOEC (*Pseudokirchneriella subcapitata* (microalgae)): 310 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 51 mg/l
End point: Reproduction
Exposure time: 21 Days
Method: OECD Test Guideline 211
GLP: yes

Toxicity to microorganisms : EC50: 390 mg/l
Exposure time: 24 h
Method: ISO 8192
GLP: no

Persistence and degradability

Components:

Benzyl alcohol:

Biodegradability : aerobic
Result: Readily biodegradable
Biodegradation: 92 - 96 %
Exposure time: 14 d
Method: OECD Test Guideline 301C

Bioaccumulative potential

Components:

Benzyl alcohol:

Bioaccumulation : Bioconcentration factor (BCF): 1.37
Partition coefficient: n-octanol/water : log Pow: 1.05
Method: measured

Mobility in soil

Components:

Benzyl alcohol:

SAFETY DATA SHEET



BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

Distribution among environmental compartments : Koc: 15.7

Other adverse effects

Product:

Additional ecological information : No data available

Components:

Benzyl alcohol:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Disposal methods : The generation of waste should be avoided or minimized wherever possible.
This material and its container must be disposed of in a safe way.
Empty containers retain product residue; observe all precautions for product.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste disposal should be in accordance with existing federal, state, provincial and/or local environmental controls.
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

DOT

Not regulated as a dangerous good

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

SAFETY DATA SHEET



BENZYL ALCOHOL (TECH) NGD

Version 1.0	Revision Date: 10/01/2018	SDS Number: 103000005228	Date of previous issue: - Country / Language: US / EN
----------------	------------------------------	-----------------------------	--

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

CERCLA

None

Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards

Acute toxicity (any route of exposure)
Serious eye damage or eye irritation

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Massachusetts Right To Know

Benzyl alcohol	100-51-6	>= 90 - < 100
----------------	----------	---------------

Pennsylvania Right To Know

Benzyl alcohol	100-51-6	>= 90 - < 100
----------------	----------	---------------

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive defects.

TSCA inventory

TSCA : On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SAFETY DATA SHEET

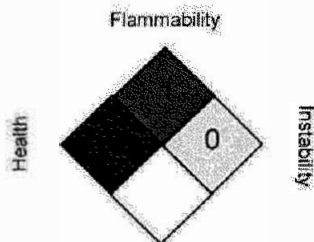
BENZYL ALCOHOL (TECH) NGD

Version: 1.0 Revision Date: 10/01/2018 SDS Number: 103000005228 Date of previous issue: -
Country / Language: US / EN

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS® IV:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "I" represents the absence of a chronic hazard.

Revision Date: 10/01/2018

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of our knowledge. The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. We assume no legal responsibility for use of or reliance upon the information in this SDS.