



**BENZYL ALCOHOL**  
**BATCH NUMBER - 4399201**

**BEN0022**

**CAS#: 100-51-6**

**FEMA#: 2137**

**CERTIFICATE OF ANALYSIS**

**PRODUCT IDENTIFICATION**

PRODUCT NAME	BENZYL ALCOHOL - C
MOLECULAR FORM	C <sub>7</sub> H <sub>8</sub> O
MOLECULAR WT	108.14
MELTING POINT (C)	-5 deg C
BOILING POINT (C)	205 deg C
FLASH POINT (F)	212 deg F
BEST BEFORE DATE	JUNE 2022

PHYSICAL SPECIFICATIONS	RANGE	RESULTS
APPEARANCE	CLEAR COLORLESS LIQUID	CONFORMS
ODOR	FAINT AROMATIC ODOR	CONFORMS
SPECIFIC GRAVITY (25C)	1.0400 to 1.0500	1.0445
REFRACTIVE INDEX (20C)	1.5390 to 1.5410	1.5408
SOLUBILITY	MISCIBLE IN ALCOHOL, 1 ML IN 30 ML WATER	PASSES

ANALYTICAL SPECIFICATIONS	RANGE	RESULTS
PURITY (BY GC)	99.5 % MIN	99.93%

OTHER SPECIFICATIONS	RANGE	RESULTS
CLARITY OF SOLUTION	SOLUTION IS COLORLESS	PASSES
COLOR OF SOLUTION	SOLUTION IS COLORLESS	PASSES
IDENTIFICATION	CONFORMS TO STANDARD	CONFORMS
PEROXIDE VALUE	5.0 MAXIMUM	
ACIDITY	1.0 MAX (ML OF 0.10 N NAOH)	0.05
NON-VOLATILE RESIDUE	0.05 % MAXIMUM	
ASSAY	99.0 % MINIMUM	
ALDEHYDES	0.2 % MAXIMUM	0.0186%
CHLORINATED COMPOUNDS	PASSES TEST	PASSES
DISTILLATION RANGE	> 95% BETWEEN 202.5 °C AND 206.5 °C	205°C

**STABILITY**

STABLE UNDER NORMAL CONDITIONS

**STORAGE**

STORE IN COOL DRY PLACE AWAY FROM HEAT AND SUNLIGHT.

SHELF LIFE CONSIDERATIONS APPLY ONLY FOR ORIGINAL UNOPENED CONTAINERS



## FRAGRANCE ALLERGENS

Madar Corporation Limited hereby certifies that:

### BENZYL ALCOHOL

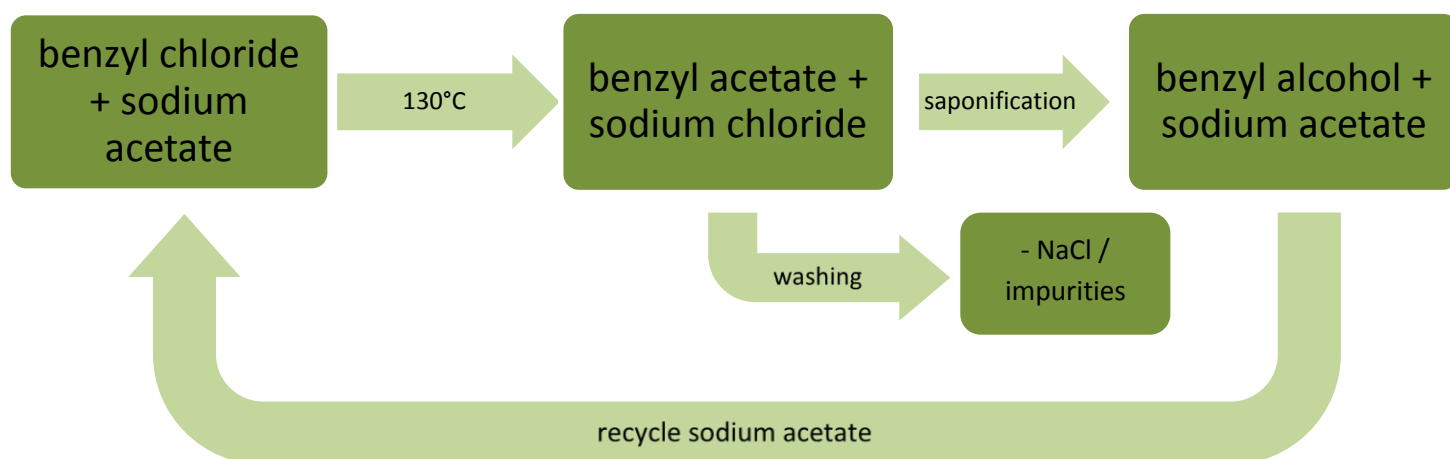
Contains the following fragrance allergens as detailed in the 7th Amendment to the EU Cosmetic Directive 76/768/EEC:

	Allergen	CAS number	Content %
1	Alpha isomethylionone	127-51-5	-
2	Amyl cinnamal	122-40-7	-
3	Amylcinnamyl alcohol	101-85-9	-
4	Anisyl alcohol	105-13-5	-
5	Benzyl alcohol	100-51-6	100%
6	Benzyl benzoate	120-51-4	-
7	Benzyl cinnamate	103-41-3	-
8	Benzyl salicylate	118-58-1	-
9	Butylphenyl methylpropional (Lilial)	80-54-6	-
10	Cinnamal	104-55-2	-
11	Cinnamyl alcohol	104-54-1	-
12	Citral	5392-40-5	-
13	Citronellol	106-22-9	-
14	Coumarin	91-64-5	-
15	Eugenol	97-53-0	-
16	Farnesol	4602-84-0	-
17	Geraniol	106-24-1	-
18	Hexyl cinnamal	101-86-0	-
19	Hydroxycitronellal	107-75-5	-
20	Hydroxyisohexyl 3-cyclohexene carboxaldehyde (Lyrall)	31906-04-4	-
21	Isoeugenol	97-54-1	-
22	Limonene	5989-27-5	-
23	Linalool	78-70-6	-
24	Methyl 2-octynoate	111-12-6	-
25	Evernia furfuracea (Treemoss) extract	90028-67-4	-
26	Evernia prunastri (Oakmoss) extract		-

Date of issue: 09/03/2020

## PROCESS FLOW CHART

### BENZYL ALCOHOL



Madar Corporation Limited hereby certifies that the products has no added antioxidants, diluents, colorants or preservatives, nor are any solvents used in the extraction process.



## GMO CERTIFICATE

Madar Corporation Limited hereby certifies that:

### BENZYL ALCOHOL

to the best of its knowledge does not derive from a genetically modified source (GMO) as specified in Regulation (EC) No 1829/2003 nor have GMO materials been used in its manufacture or as additives.

Date of issue: 03/11/2017



## IFRA CERTIFICATE

### BENZYL ALCOHOL

Madar Corporation Limited hereby certifies that the above material complies with the requirements of the INTERNATIONAL FRAGRANCE ASSOCIATION - IFRA-49th Amendment / published January 10th 2020) provided it is used in following application (class) at a maximum concentration level of:

IFRA category	Maximum level of use (%)
Class 1	0.45
Class 2	0.14
Class 3	0.34
Class 4	2.5
Class 5A	0.64
Class 5B	0.17
Class 5C	0.34
Class 5D	0.057
Class 6	1.5
Class 7A	0.68
Class 7B	0.68
Class 8	0.057
Class 9	2.2
Class 10A	2.2
Class 10B	8.5
Class 11A	0.057
Class 11B	0.057
Class 12	Not restricted

The above values were calculated based on the following IFRA restricted materials: <Benzyl Alcohol 100%>

Date of issue: 09/03/2020

The IFRA Standards regarding use restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

It is the ultimate responsibility of our customer to ensure the safety of the final product by further testing if need be. Evaluation of the Fragrance ingredient was made according to the safety requirements contained in the relevant section of the IFRA Code of Practice.

IFRA category includes	IFRA category
Children's toys, Lip Products of all types (solid and liquid lipsticks, balms, clear or coloured etc...) (****)	Class 1
Deodorant and Antiperspirant products of all types (spray, stick, roll-on, under-arm and body etc...), Body sprays (including body mist)	Class 2
Eye products of all types (eye shadow, mascara, eyeliner, eye make-up, eye masks, eye pillows, etc.) including eye care and moisturizer; Facial make up and foundation; Make-up remover for face and eyes; Nose pore strips; Wipes or refreshing tissues for face, neck, hands, body; Body and face paint (for children and adults); Facial masks for face and around the eyes	Class 3
Hydroalcoholic and non-hydroalcoholic fine fragrance of all types (Eau de Toilette, Parfum, Cologne, solid perfume, fragrancing cream, aftershaves of all types, etc.); Fragranced bracelets; Ingredients of perfume kits and fragrance mixtures for cosmetic kits; Scent pads, foil packs; Scent strips for hydroalcoholic products	Class 4
Body creams, oils, lotions of all types; Foot care products (creams and powders); Insect repellent (intended to be applied to the skin); All powders and talc (excluding baby powders and talc)	Class 5A
Facial toner; Facial moisturizers and creams	Class 5B
Hand cream; Nail care products including cuticle creams, etc.	Class 5C
Baby cream/lotion, baby oil, baby powders and talc	Class 5D
Mouthwash, including breath sprays; Toothpaste; Toothpowder, strips, mouthwash tablets (****)	Class 6
Hair permanent or other hair chemical treatments (rinse-off) (e.g. relaxers), including rinse-off hair dyes	Class 7A
Hair sprays of all types (pumps, aerosol sprays, etc.); Hair styling aids non sprays (mousse, gels, leave-on conditioners); Hair permanent or other hair chemical treatments (leave-on) (e.g. relaxers), including leave-on hair dyes; Shampoo - Dry (waterless shampoo); Hair deodorizer	Class 7B
Intimate wipes; Tampons; Baby wipes; Toilet paper (wet)	Class 8
Bar Soap; Shampoo off all type; Cleanser for face (rinse off); Conditioner (rinse off); Liquid Soap; Body washes and shower gels of all types; Baby wash, bath, shampoo; Bath gels, foams, mousses, salts, oils and other products added to bathwater; Foot care products (feet are placed in a bath for soaking); Shaving creams of all types (stick, gels, foams, etc.); All depilatories (including facial) and waxes for mechanical hair removal; Shampoos for pets	Class 9
Hand wash laundry detergent (including concentrates); Laundry pre-treatment of all types (e.g. paste, sprays, sticks); Hand dishwashing detergent (including concentrates); Hard surface cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.); Machine laundry detergents with skin contact (e.g. liquids, powders) including concentrates; Dry cleaning kits; Toilet seat wipes; Fabric softeners of all types including fabric softener sheets; Household cleaning products, other types including fabric cleaners, soft surface cleaners, carpet cleaners, furniture polishes sprays and wipes, leather cleaning wipes, stain removers, fabric enhancing sprays, treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics); Floor wax; Fragranced oil for lamp ring, reed diffusers, pot-pourri, liquid refills for air fresheners (non-cartridge systems), etc; Ironing water (Odorized distilled water)	Class 10A
Animal sprays – sprays applied to animals of all types; Air freshener sprays, manual, including aerosol and pump; Aerosol/spray insecticides	Class 10B
Feminine hygiene conventional pads, liners, interlabial pads; Diapers (baby and adult); Adult incontinence pant, pad; Toilet paper (dry);	Class 11A
Tights with moisturizers; Scented socks, gloves; Facial tissues (dry tissues); Napkins; Paper towels; Wheat bags; Facial masks (paper/protective) e.g. surgical masks not used as medical device; Fertilizers, solid (pellet or powder)	Class 11B
Candles of all types (including encased); Laundry detergents for machine wash with minimal skin contact (e.g. Liquid tabs, pods); Automated air fresheners and fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, closed systems, solid substrate, membrane delivery, electrical, powders, fragrancing sachets, incense, liquid refills (cartridge), air freshening crystals); Air delivery systems; Cat Litter; Cell phone cases; Deodorizers/maskers not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders); Fuels; Insecticides (e.g. mosquito coil, paper, electrical, for clothing) excluding aerosols/sprays; Joss sticks or incense sticks; Dishwash detergent and deodorizers – for machine wash; Olfactive board games; Paints; Plastic articles (excluding toys); Scratch and sniff; Scent pack; Scent delivery system (using dry air technology); Shoe polishes; Rim blocks (Toilet)	Class 12

(\*\*\*\*) Fragrance materials for use in these applications need also FEMA-GRAS conformity.

Date of issue: 09/03/2020

BiOrigins, 19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK

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This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

**Product name** BENZYLALCOHOL

**Issue date** 28-Jan-2015

**Revision date** 02-Mar-2020

**Version** 3

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product Identifier

<b>Product code</b>	BEN0022
<i>Product name</i>	BENZYL ALCOHOL – C
<b>REACH registration number</b>	01-2119492630-38-0010
<b>EC No.</b>	202-859-9
<b>CAS No</b>	100-51-6
<b>Chemical Name</b>	Phenylmethanol
<b>Synonyms</b>	Benzenemethanol
<b>Pure substance/mixture</b>	Substance
Contains Benzyl alcohol	
<b>Formula</b>	C <sub>7</sub> H <sub>8</sub> O
<b>Molecular weight</b>	108.14

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Sold to the general public?</b>	No
<b>Recommended Use</b>	Industry Use
<b>Uses advised against</b>	No information available

### 1.3. Details of the supplier of the safety data sheet

**Supplier**  
Madar Corporation Limited  
19 - 20 Sandleheath Industrial Estate  
Fordingbridge  
SP6 1PA  
Tel: (+44) 1425 655 555

For further information, please contact

<b>Contact Point</b>	technical@madarcorporation.co.uk
<b>E-mail address</b>	

### 1.4. Emergency telephone number

Emergency telephone

<b>Emergency telephone - 01425 655 555</b>
<b>CCN# 17256</b>

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Serious eye damage/eye irritation	Category 2 - (H319)

### 2.2. Label Elements

#### Product identifier

Contains Benzyl alcohol



#### Signal word

Warning

#### Hazard statements

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

#### Precautionary Statements

P280 - Wear eye protection/ face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### 2.3. Other Hazards

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Chemical Name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Benzyl alcohol	Present	100-51-6	100	Acute Tox. 4 (H302)(EFA) Eye Irrit. 2 (H319) (EFA) Acute Tox. 5 (H313)(EFA)	No data available

Full text of H- and EUH-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediate medical attention is not required. If symptoms persist, call a physician.



<b>Skin contact</b>	Wash off immediately with plenty of water. Immediate medical attention is not required. If symptoms persist, call a physician.
<b>Eye Contact</b>	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.
<b>Ingestion</b>	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Drink 1 or 2 glasses of water.

#### **4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** Drowsiness. Dizziness.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable Extinguishing Media**

Use Dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam

##### **Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire

#### **5.2. Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating and toxic gases and vapors

**Hazardous combustion products** Irritating or toxic substances may be emitted upon burning, combustion, or decomposition.

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **Personal precautions**

Avoid contact with eyes and skin. Avoid breathing vapors or mists.

##### **For emergency responders**

Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

Collect spillage.

#### **6.3. Methods and material for containment and cleaning up**

##### **Methods for Containment**

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

##### **Methods for cleaning up**

Cover liquid spill with sand, earth or other non-combustible absorbent material. Use

personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

#### 6.4. Reference to other sections

See Section 12: ECOLOGICAL INFORMATION.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

Avoid contact with skin and eyes. Avoid breathing vapors or mists.

##### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash hands thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Storage Conditions

Protect from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.

#### 7.3. Specific end use(s)

##### Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Benzyl alcohol 100-51-6	-	-	-	-	TWA: 22 mg/m <sup>3</sup> TWA: 5 ppm Ceiling / Peak: 44 mg/m <sup>3</sup> Ceiling / Peak: 10 ppm Skin
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Benzyl alcohol 100-51-6	-	-	-	TWA: 10 ppm TWA: 45 mg/m <sup>3</sup>	-
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Benzyl alcohol 100-51-6	-	Skin TWA: 5 ppm TWA: 22 mg/m <sup>3</sup>	TWA: 240 mg/m <sup>3</sup>	-	-

#### Derived No Effect Level (DNEL)

##### Workers

oral

Long Term: 4 mg/kg bw/day, Short Term: 20 mg/kg bw/day

dermal

Long Term: 8 mg/kg bw/day, Short Term: 40 mg/kg bw/day

Inhalation

Long Term: 22 mg/m<sup>3</sup>, Short Term: 110 mg/m<sup>3</sup>

#### Derived No Effect Level (DNEL)

##### General Population

dermal

Long Term: 4 mg/kg bw/day, Short Term: 20 mg/kg bw/day

Inhalation

Long Term: 5.4 mg/m<sup>3</sup>, Short Term: 27 mg/m<sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

Fresh Water	1 mg/L
Sea Water	0.1 mg/L
Sea sediment	0.527 mg/kg sediment dw
Soil	0.456 mg/kg soil dw
Impact on Sewage Treatment	39 mg/L

**8.2. Exposure controls**

Engineering controls	Showers Eyewash stations Ventilation systems Ensure adequate ventilation, especially in confined areas
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**Personal Protective Equipment**

Eye/Face Protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).
Hand protection	Wear protective nitrile rubber gloves.
Skin and Body Protection	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
Respiratory protection	Ensure adequate ventilation, especially in confined areas. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls	No information available.
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**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	Liquid		
Appearance	Clear	Odor	Characteristic odor
Color	Colorless to almost colorless	Odor threshold	Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		
Melting point / freezing point	-16 °C / 4 °F	
Boiling point / boiling range	205 °C / 401 °F	
Flash Point	100 °C / 212 °F	
Evaporation Rate		
Flammability (solid, gas)		
Flammability Limit in Air		
Upper flammability limit:		
Lower flammability limit:		
Vapor pressure	0.007kPa	(20°C)
Vapor Density		
Specific gravity	1.042 - 1.047	(25°C)
Water solubility	40 g/L	(25°C)
solubility(ies)		
Partition coefficient	LogKow - 1.05	(20°C)
Autoignition Temperature	436 °C / 817 °F	
Decomposition temperature		
Kinematic viscosity		
Dynamic viscosity	5.84 mPa s	(20°C)
Explosive properties	Not an explosive	
Oxidizing properties	Not oxidising	

**9.2. Other information**

Molecular weight	108.14
VOC content (%)	100
Density	Not applicable
Bulk Density	Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

### 10.3. Possibility of hazardous reactions

#### Possibility of Hazardous Reactions

None under normal processing.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

#### Product Information

##### Inhalation

Avoid breathing vapors or mists.

##### Eye Contact

Avoid contact with eyes. Causes serious eye irritation.

##### Skin contact

Avoid contact with skin. May be harmful in contact with skin.

##### Ingestion

Harmful if swallowed.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Benzyl alcohol	1,620 mg/kg (Rat)	>2,00mg/kg (Rabbit)	>4,178mg/L (Rat) 4hr

**Skin corrosion/irritation** Not expected to cause skin irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Sensitization** Not expected to cause skin sensitization.

<b>Germ cell mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards above the threshold value.
<b>STOT - single exposure</b>	Not classified.
<b>STOT - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.

## SECTION 12: Ecological information

### 12.1. Toxicity

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Crustacea	Algae/aquatic plants	Fish
Benzyl alcohol	48hr EC50 - 230 mg/L (Daphnia magna)	72 hr EC50/LC50 - 770 mg/L, 72 hr EC10, LC10 or NOEC - 310 mg/L (Pseudokirchnerella subcapitata)	96hr LC50 - 460 mg/L (Pimephales promelas)

### 12.2. Persistence and degradability

Readily biodegradable.

### 12.3. Bioaccumulative potential

Low potential for bioaccumulation.

**Bioconcentration factor (BCF)** 1.37 L/kg ww

### 12.4. Mobility in soil

#### Mobility in soil

Koc - 15.7 (20 °C)

### 12.5. Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6. Other adverse effects

No information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from Residues/Unused Products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container. Improper disposal or reuse of this container may be dangerous and illegal.

## SECTION 14: Transport information

**IMDG**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	Not applicable
14.6 Special Provisions	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available

**RID**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**ADR**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**ICAO (air)**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

**IATA**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazard	Not applicable
14.6 Special Provisions	None

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Chemical Name	French RG number	Title
Benzyl alcohol 100-51-6	RG 84	-

**Water hazard class (WGK)**      Slightly hazardous to water (WGK 1)

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorization and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information****Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed

H313 - May be harmful in contact with skin

H319 - Causes serious eye irritation

**Key literature references and sources for data**

Key Source: European Chemicals Agency, <http://echa.europa.eu>

**Issue date** 28-Jan-2015

**Revision date** 02-Mar-2020

**Revision note** Not applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Disclaimer**

**This material has not been tested or proven safe for inhalation. With this document, Madar Corporation Limited only attests to the safety of the product when used in the appropriate and suitable fragrance/flavor industry application.**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Classification and labeling according to the IFRA/IOFI Labeling Manual 2019.**

**End of Safety Data Sheet**



## BENZYL ALCOHOL - C

BEN0022

CAS#: 100-51-6

FEMA#: 2137

### PRODUCT IDENTIFICATION

PRODUCT NAME	BENZYL ALCOHOL - C
MOLECULAR FORM	C <sub>7</sub> H <sub>8</sub> O
MOLECULAR WT	108.14
MELTING POINT (C)	-5 deg C
BOILING POINT (C)	205 deg C
FLASH POINT (F)	212 deg F
SHELF LIFE (DAYS)	730

PHYSICAL SPECIFICATIONS	RANGE	METHOD
APPEARANCE	CLEAR COLORLESS LIQUID	VISUAL
ODOR	FAINT AROMATIC ODOR	ORGANOLEPTIC
SPECIFIC GRAVITY (25C)	1.0400 to 1.0500	FCC METHOD
REFRACTIVE INDEX (20C)	1.5390 to 1.5410	FCC METHOD
SOLUBILITY	MISCIBLE IN ALCOHOL, 1 ML IN 30 ML WATER	FCC METHOD

ANALYTICAL SPECIFICATIONS	RANGE	METHOD
PURITY (BY GC)	99.5 % MIN	CHEM_20.M

OTHER SPECIFICATIONS	RANGE	METHOD
CLARITY OF SOLUTION	SOLUTION IS COLORLESS	NF METHOD
COLOR OF SOLUTION	SOLUTION IS COLORLESS	NF METHOD
IDENTIFICATION	CONFORMS TO STANDARD	NF/FCC METHOD
PEROXIDE VALUE	5.0 MAXIMUM	NF METHOD
ACIDITY	1.0 MAX (ML OF 0.10 N NAOH)	NF METHOD
NON-VOLATILE RESIDUE	0.05 % MAXIMUM	NF METHOD
ASSAY	99.0 % MINIMUM	FCC METHOD
ALDEHYDES	0.2 % MAXIMUM	FCC METHOD
CHLORINATED COMPOUNDS	PASSES TEST	FCC METHOD
DISTILLATION RANGE	> 95% BETWEEN 202.5 °C AND 206.5 °C	FCC METHOD

### STABILITY

STABLE UNDER NORMAL CONDITIONS

### STORAGE

STORE IN COOL DRY PLACE AWAY FROM HEAT AND SUNLIGHT.

SHELF LIFE CONSIDERATIONS APPLY ONLY FOR ORIGINAL UNOPENED CONTAINERS

### PRODUCT SPECIFICATION

Date Revised: 09/01/2020





## VEGAN / VEGETARIAN DECLARATION

Madar Corporation Limited. hereby certifies that:

### BENZYL ALCOHOL

to the best of our knowledge is suitable for both vegan and vegetarian diets.

Date of issue: 25/10/2018