

according to the Globally Harmonized System

## **Benzyl Alcohol Formulation**

Versi 1.6	ion	Revision Date: 30.09.2023		S Number: 02897-00007	Date of last issue: 04.04.2023 Date of first issue: 29.07.2019		
1. PF	1. PRODUCT AND COMPANY IDENTIFICATION						
	Product name		:	Benzyl Alcohol Formulation			
	Manufa	acturer or supplier's c	letai	ls			
	Company		:	MSD			
	Address		:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207			
	Teleph	one	:	+1-908-740-4000			
	Emerge	ency telephone number	r:	+1-908-423-6000	)		
	E-mail	address	:	EHSDATASTEW	ARD@msd.com		
	Recom	mended use of the cl	nem	ical and restrictic	ons on use		
		mended use tions on use	:	Veterinary produce Not applicable	ct		

### 2. HAZARDS IDENTIFICATION

### Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

### Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

### **GHS Classification**

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

# Other hazards which do not result in classification None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 1 - < 5

### 4. FIRST AID MEASURES

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	If inhaled In case of skin contact In case of eye contact If swallowed Most important symptoms and effects, both acute and		: : :	Wash with water a Get medical atten Flush eyes with w Get medical atten If swallowed, DO	tion if symptoms occur. and soap as a precaution. tion if symptoms occur. rater as a precaution. tion if irritation develops and persists. NOT induce vomiting. tion if symptoms occur.		
	delayed Protect		:	No special precautions are necessary for first aid respond Treat symptomatically and supportively.			
5. F	5. FIREFIGHTING MEASURES						
	Suitable extinguishing media Unsuitable extinguishing media		:	Water spray Alcohol-resistant t Carbon dioxide (C Dry chemical			
			:	None known.			
	Specific fighting	c hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.		
		ous combustion prod-	:	Carbon oxides			
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do		
	Special for firefi	protective equipment ighters	:	essary.	ed breathing apparatus for firefighting if nec-		
6. A	CCIDEN	ITAL RELEASE MEAS	SUF	RES			
		al precautions, protec- uipment and emer-	:		ing advice (see section 7) and personal pro- recommendations (see section 8).		

gency procedures		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can



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		Clea bent Loca posa emp mine Sect	n up remaini I or national I of this mate loyed in the o which regul ions 13 and	e recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.
7. HANDI	LING AND STORAGE			
Tech	inical measures			measures under EXPOSURE SONAL PROTECTION section.
Loca	I/Total ventilation			equate ventilation.
Advid	ce on safe handling	prac sess Take	tice, based o ment	ance with good industrial hygiene and safety n the results of the workplace exposure as- vent spills, waste and minimize release to the
Conc	ditions for safe storage			labelled containers. nce with the particular national regulations.
Mate	rials to avoid	: Do n		the following product types:

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures :		Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.			
Personal protective equipme	ent				
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.			
Filter type Hand protection	:	Organic vapour type			
Material	:	Chemical-resistant gloves			
Remarks	:	Consider double gloving.			
3/11					



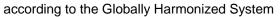
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Eye protection		<ul> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty conditions mists or aerosols, wear the appropriate goggles.</li> <li>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.</li> </ul>				
Skin and body protection		: Work uniform or Additional body being performed suits) to avoid ex	garments should be used based upon the task (e.g., sleevelets, apron, gauntlets, disposable kposed skin surfaces. degowning techniques to remove potentially			
Hygiene measures		: If exposure to ch flushing systems place. When using do r Wash contamina The effective op engineering con appropriate dego	nemical is likely during typical use, provide eye and safety showers close to the working not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the			

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	colourless
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available





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Re	Relative vapour density		No data available	2
Re	Relative density		No data available	9
De	ensity	:	1 g/cm <sup>3</sup>	
So	lubility(ies) Water solubility	:	soluble	
	rtition coefficient: n- tanol/water	:	Not applicable	
	ito-ignition temperature	:	No data available	9
De	ecomposition temperature	:	No data available	9
Vis	scosity Viscosity, kinematic	:	No data available	
Ex	plosive properties	:	Not explosive	
	tidizing properties	:	The substance o	r mixture is not classified as oxidizing.
	irticle size	:	Not applicable	·

### **10. STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

### Acute toxicity

Not classified based on available information.

### Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg
		Method: Calculation method



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	Acute inhalation toxicity		:	Acute toxicity estimate: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
	Compo	onents:				
	Benzyl	alcohol:				
	Acute o	oral toxicity	:	LD50 (Rat): 1,620	0 mg/kg	
	Acute i	nhalation toxicity	:	LC50 (Rat): > 4.1 Exposure time: 4 Test atmosphere Method: OECD T	h	
		orrosion/irritation ssified based on availa	able	information.		
	Compo	onents:				
	Benzyl	alcohol:				
	Species Methoo Result		:	Rabbit OECD Test Guid No skin irritation	eline 404	
		s eye damage/eye irr ssified based on availa				
	Compo	onents:				
	Benzyl Species Methoc Result		:	Rabbit OECD Test Guid Irritation to eyes,	eline 405 reversing within 21 days	
	Respir	atory or skin sensitis	atio	on		
		ensitisation ssified based on availa	able	information.		
	-	atory sensitisation				
		ssified based on availa	able	information.		
		onents:				
	Test Ty	alcohol: /pe /re routes	:	Maximisation Tes	st	

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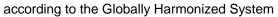
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	<b>n cell mutagenicity</b> lassified based on ava	ilable	information.	
Com	ponents:			
Benz	yl alcohol:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	te: Intraperitoneal injection
	i <b>nogenicity</b> lassified based on ava	ilable	information.	
Com	ponents:			
Benz	yl alcohol:			
	cation Route sure time od	:	Mouse Ingestion 103 weeks OECD Test Gui negative	deline 451
Repr	oductive toxicity			
Not c	lassified based on ava	ilable	information.	
Com	ponents:			
	<b>yl alcohol:</b> ts on fertility	:	Species: Rat Application Rou Result: negative	
	ts on foetal develop-	:	Test Type: Emb Species: Mouse	ryo-foetal development

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.





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•	ated dose toxicity ponents:		

### Benzyl alcohol:

### Aspiration toxicity

Not classified based on available information.

### **12. ECOLOGICAL INFORMATION**

### Ecotoxicity

### Components:

Benzyl alcohol:	
•	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic : plants	EC50 ( Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC ( Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
Persistence and degradability	
Components:	
Benzyl alcohol: Biodegradability :	Result: Readily biodegradable.
	Result. Reading biodegradable. Biodegradation: 92 - 96 %



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Bioad	ccumulative potentia	I	
Com	ponents:		
Partit	<b>yl alcohol:</b> ion coefficient: n- ol/water	: log Pow: 1.05	
	<b>lity in soil</b> ata available		
••	r adverse effects ata available		
3. DISPC	SAL CONSIDERATI	ONS	
Dispo	osal methods		
Waste	e from residues	•	of waste into sewer. ccordance with local regulations.
Conta	aminated packaging	: Empty containe dling site for red	ers should be taken to an approved waste han cycling or disposal. specified: Dispose of as unused product.

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Special precautions for user

Not applicable

### **15. REGULATORY INFORMATION**

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

### The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

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### **16. OTHER INFORMATION**

Revision Date	:	30.09.2023
Further information		
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Date format : dd.mm.yyyy

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their



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intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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