



Vers 1.7	ion	Revision Date: 06.04.2024		S Number:)2902-00008	Date of last issue: 30.09.2023 Date of first issue: 29.07.2019		
Sect	tion 1: I	dentification					
	Produc	ct identifier	:	Benzyl Alcohol F	ormulation		
	Recom	mended use of the c	hem	ical and restriction	ons on use		
	Recommended use Restrictions on use		:	Veterinary productNot applicable			
	Restrict		•				
	Manufa	acturer or supplier's	deta	ils			
	Compa	ny	:	MSD			
	Addres	S	:	50 Tuas West Dr Singapore - Sing			
	Telepho	one	:	+1-908-740-4000)		
	Emerge	ency telephone numbe	r:	65 6697 2111 (24	4/7/365)		
	E-mail a	address	:	EHSDATASTEW	/ARD@msd.com		

Section 2: Hazard identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

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.

Section 3: Composition/information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Benzyl alcohol	100-51-6	>= 1 -< 10

Section 4: First-aid measures

Description of necessary first-aid measures If inhaled : If inhaled, remove to fresh air. Get medical attention if symptoms occur.

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In cas	e of skin contact	:		r and soap as a precaution.
In cas	e of eye contact	:		ention if symptoms occur. water as a precaution.
	llowed	:	Get medical atte If swallowed, DO Get medical atte	ention if irritation develops and persists. O NOT induce vomiting. ention if symptoms occur. proughly with water.
Most	important symptoms a	and	effects, both ac	ute and delayed
Risks Prote	ction of first-aiders	:	None known. No special prec	autions are necessary for first aid responder
	-	me		and special treatment needed
Treat	ment	:	Treat symptoma	atically and supportively.
ction 5:	Fire-fighting measure	s		
-	juishing media			
-	Juishing media ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Suitat	ble extinguishing media table extinguishing	:	Alcohol-resistar	
Suitat Unsui media	table extinguishing media	:	Alcohol-resistar Carbon dioxide Dry chemical None known.	(CO2)
Suitat Unsui media Spec i Speci	ble extinguishing media table extinguishing a ial hazards arising fron fic hazards during fire-	: n tr	Alcohol-resistar Carbon dioxide Dry chemical None known.	(CO2) mixture
Suitat Unsui media Spec i Speci fightin	ble extinguishing media table extinguishing a ial hazards arising fron fic hazards during fire-	: n th :	Alcohol-resistar Carbon dioxide Dry chemical None known. he substance or Exposure to cor	(CO2)
Suitat Unsui media Spec i fightin Hazar ucts	table extinguishing media table extinguishing a ial hazards arising fron fic hazards during fire- ig dous combustion prod-	: n th : :	Alcohol-resistar Carbon dioxide Dry chemical None known. he substance or Exposure to cor Carbon oxides	(CO2) mixture
Suitat Unsui media Speci fightin Hazar ucts Spec Speci	table extinguishing media table extinguishing a ial hazards arising fron fic hazards during fire-	: th : : or f	Alcohol-resistar Carbon dioxide Dry chemical None known. he substance or Exposure to cor Carbon oxides ire-fighters Wear self-conta essary.	(CO2) mixture

i ersonai precautions, protective		alphent and emergency procedures
Personal precautions	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions 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



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		Local authoritie cannot be conta	
	and materials for co ods for cleaning up	For large spills, ment to keep m be pumped, sto Clean up remain bent. Local or national posal of this ma employed in the mine which reg Sections 13 and	ng up ert absorbent material. provide dyking or other appropriate contain- naterial from spreading. If dyked material can bre recovered material in appropriate container. ning materials from spill with suitable absor- al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
Section 7	: Handling and stora	ige	
Preca	autions for safe han	dling	
Tech	nical measures		g measures under EXPOSURE ERSONAL PROTECTION section.
Local	I/Total ventilation		dequate ventilation.
Advic	ce on safe handling	: Handle in acco practice, based sessment	rdance with good industrial hygiene and safety on the results of the workplace exposure as- event spills, waste and minimize release to the

environment.

Hygiene measures	 If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
	When using do not eat, drink or smoke.
	Wash contaminated clothing before re-use.
	The effective operation of a facility should include review of engineering controls, proper personal protective equipment,
	appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage	:	Keep in properly labelled containers.
		Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types:
		Strong oxidizing agents



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Section 8: Exposure controls/personal protection

Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

Appropriate engineering control 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 con- tainment devices). Minimize open handling.
Individual protection measu	res	, such as personal protective equipment (PPE)
Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Skin protection	:	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
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	:	Organic vapour type
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	Consider double gloving.

Section 9: Physical and chemical properties

Appearance	:	Aqueous solution
Colour	:	colourless
Odour	:	No data available

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Odou	ur Threshold	:	No data available	9
pН		:	No data available	9
Melti	ing point/freezing point	:	No data available	9
Initia rang	l boiling point and boiling e	:	No data available	9
Flas	h point	:	No data available	9
Evap	poration rate	:	No data available	9
Flam	nmability (solid, gas)	:	Not applicable	
Flam	nmability (liquids)	:	No data available	9
	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	9
Vapo	our pressure	:	No data available	9
Rela	tive vapour density	:	No data available	9
Rela	tive density	:	No data available	9
Dens	sity	:	1 g/cm ³	
	bility(ies) /ater solubility	:	soluble	
	tion coefficient: n-	:	Not applicable	
	nol/water -ignition temperature	:	No data available	9
Deco	omposition temperature	:	No data available	9
Visco V	osity ïscosity, kinematic	:	No data available	9
Expl	osive properties	:	Not explosive	
Oxid	izing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	9
	cle characteristics cle size	:	Not applicable	



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Section 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.

Section 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: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method

Components:

Benzyl alcohol:		
Acute oral toxicity	: LD5	60 (Rat): 1,620 mg/kg
Acute inhalation toxicity	Exp Tes	60 (Rat): > 4.178 mg/l osure time: 4 h t atmosphere: dust/mist hod: OECD Test Guideline

Skin corrosion/irritation

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	No skin irritation

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Serious eye damage/eye irritation

Not classified based on available information.

Components:

Benzyl alcohol:

Species Result	:	Rabbit Irritation to eyes, reversing within 21 days
Method	:	OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Benzyl alcohol:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzyl alcohol:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Benzyl alcohol:

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	103 weeks



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Metho Resul		:	OECD Test Guid negative	eline 451
	oductive toxicity assified based on availa	able	information.	
Comp	oonents:			
Benz	yl alcohol:			
Effect	s on fertility	:	Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion on data from similar materials
Effect ment	s on foetal develop-	:	Test Type: Embry Species: Mouse Application Route Result: negative	yo-foetal development e: Ingestion
	- single exposure assified based on availa	able	information.	
CTOT	- repeated exposure			
	assified based on availa	able	information.	
Not cl	• •	able	information.	
Not cl Repe	assified based on availa	able	information.	
Not cl Repe Comp Benzy Speci NOAE Applic	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time	able	information. Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
Not cl Repe Comp Benzy Speci NOAE Applic Expos Metho	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time		Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
Not cl Repe Comp Benzy Speci NOAE Applic Expos Metho Aspir Not cl	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time od	able	Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
Not cl Repe Comp Benzy Speci NOAE Applic Expos Metho Aspir Not cl	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time od ration toxicity assified based on availa 2: Ecological informati	able	Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
Not cl Repe Comp Benzy Speci NOAE Applic Expos Metho Aspir Not cl ection 12	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time od ration toxicity assified based on availa 2: Ecological informati	able	Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
Not cl Repe Comp Benzy Speci NOAE Applic Expos Metho Aspir Not cl ection 12 Toxic <u>Comp</u>	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time od ation toxicity assified based on availa 2: Ecological informati	able	Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid	
Not cl Repe Comp Benzy Speci NOAE Applic Expos Metho Aspir Not cl ection 12 Toxic Comp Benzy	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time od ration toxicity assified based on availa 2: Ecological informati	able	Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid information.	eline 412
Not cl Repe Gomp Benz Speci NOAE Applic Expos Metho Aspir Not cl ection 12 Toxic Benz Toxic	assified based on availa ated dose toxicity <u>ponents:</u> yl alcohol: es EL cation Route sure time od ation toxicity assified based on availa 2: Ecological informati sity ponents: yl alcohol: ity to fish	able on	Rat 1.072 mg/l inhalation (dust/n 28 Days OECD Test Guid information.	eline 412

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aquat	ic invertebrates		Exposure time: 4	18 h Test Guideline 202
Toxic plants	ity to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 770 72 h Test Guideline 201
			mg/l Exposure time: 7	kirchneriella subcapitata (green algae)): 310 72 h Test Guideline 201
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time: 2	magna (Water flea)): 51 mg/l 21 d Test Guideline 211
Persi	stence and degradabili	ty		
<u>Com</u>	oonents:			
Benz	yl alcohol:			
Biode	gradability	:	Result: Readily I Biodegradation: Exposure time:	92 - 96 %
Bioad	cumulative potential			
Com	oonents:			
Partiti	yl alcohol: on coefficient: n- ol/water	:	log Pow: 1.05	
Mobil	lity in soil			
	ita available			
Othe	adverse effects			
No da	ita available			

Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.



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Section 14: Transport information

International Regulations

UNRTDG UN number UN proper shipping name Transport hazard class(es) Subsidiary risk Packing group Labels Environmentally hazardous	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable no
IATA-DGR UN/ID No. UN proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
IMDG-Code UN number UN proper shipping name Class Subsidiary risk Packing group Labels EmS Code Marine pollutant	Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

Not applicable

Section 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations. Environmental Protection and Management Act and : Not applicable Environmental Protection and Management (Hazardous Substances) Regulations

Fire Safety (Petroleum and Flammable Materials) : Not applicable



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Re	egulations					
	The components of this product are reported in the following inventories: AICS : not determined					
DS	SL	:	not determined			
IE	CSC	:	not determined			
Section	n 16: Other information					
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Fu	urther information					
CO	ources of key data used to mpile the Safety Data neet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/		

Full text of other abbreviations

:

dd.mm.yyyy

Date format

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 Recom-





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mendations 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 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.

SG / EN