

Versi 1.8	ion	Revision Date: 30.09.2023		0S Number: 02904-00009	Date of last issue: 04.04.2023 Date of first issue: 29.07.2019	
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking					
	1.1 Product identifier Trade name : Benzyl Alcohol Formulation					
	Use of	it identified uses of tl the Sub- Mixture	he s :	ubstance or mixt u Veterinary produc	ure and uses advised against t	
	Recom on use	mended restrictions	:	Not applicable		
1.3 D	1.3 Details of the supplier of the safety data sheet					
1	Compa	ny	:	MSD 20 Spartan Road 1619 Spartan, So	outh Africa	
	Telepho	one	:	+27119239300		
		address of person sible for the SDS	:	EHSDATASTEW/	ARD@msd.com	

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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

Additional Labelling

EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.8	30.09.2023	4702904-00009	Date of first issue: 29.07.2019

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders	:	No special precautions are necessary for first aid responders.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.





Vers 1.8	ion	Revision Date: 30.09.2023		9S Number: 02904-00009	Date of last issue: 04.04.2023 Date of first issue: 29.07.2019
529	Special	hazards arising from	the	substance or mix	rture
	-	hazards during fire-			pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides	
5.3 A	Advice	for firefighters			
	Special for firef	protective equipment ghters	:		ed breathing apparatus for firefighting if nec- nal protective equipment.
	Specific ods	extinguishing meth-	:	cumstances and t Use water spray to	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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice (see section 7) and personal p tective equipment recommendations (see section 8).	oro-
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6.2 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 barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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6.3 Methods and material for containment and cleaning up

certain local or national requirements.		Methods for 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 be pumped, store recovered material in appropriate container Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.8	30.09.2023	4702904-00009	Date of first issue: 29.07.2019

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.			
Local/Total ventilation	: Use only with adequate ventilation.			
Advice on safe handling	: Handle in accordance with good industrial hygiene and safet practice, based on the results of the workplace exposure as- sessment			
	Take care to prevent spills, waste and minimize release to th environment.	ie		
Hygiene measures	: If exposure to chemical is likely during typical use, provide ey flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contam nated 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				

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases
3 Specific end use(s)		

7.3

: No data available Specific use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m3



Version 1.8	Revision Date: 30.09.2023	SDS Number: 4702904-00009		Date o Date o		
		Consumers	Inhalatio	n	Acute systemic ef- fects	27 mg/m3
		Consumers	Skin con	tact	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Skin con	tact	Acute systemic ef- fects	20 mg/kg bw/day
		Consumers	Ingestior	1	Long-term systemic effects	4 mg/kg bw/day
		Consumers	Ingestior	1	Acute systemic ef- fects	20 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment Value		
Benzyl alcohol	Fresh water	1 mg/l	
	Marine water	0,1 mg/l	
	Intermittent use/release 2,3 mg/l		
	Sewage treatment plant	39 mg/l	
	Fresh water sediment	5,27 mg/kg	
	Marine sediment 0,527 mg		
	Soil	0,456 mg/kg	

8.2 Exposure controls

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 equipment

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.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable 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 (A)

SAFETY DATA SHEET



Benzyl Alcohol Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.8	30.09.2023	4702904-00009	Date of first issue: 29.07.2019

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1	information on basic physical	an	a chemical properties
	Appearance Colour Odour Odour Threshold	:	Aqueous solution colourless No data available 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
	Upper explosion limit / Upper flammability limit	:	No data available
	Lower explosion limit / Lower flammability limit	:	No data available
	Vapour pressure	:	No data available
	Relative vapour density	:	No data available
	Relative density	:	No data available
	Density	:	1 g/cm ³
	Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	:	soluble Not applicable No data available
	Decomposition temperature	:	
	Viscosity		
	Viscosity, kinematic	:	No data available
	Explosive properties	:	Not explosive
	Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
9.2	Other information Flammability (liquids)	;	No data available
	Molecular weight	:	No data available

SAFETY DATA SHEET



Benzyl Alcohol Formulation

.8	Revision Date: 30.09.2023		OS Number: 02904-00009	Date of last issue: 04.04.2023 Date of first issue: 29.07.2019
Partic	ele size	:	Not applicable	
SECTION	I 10: Stability and I	reacti	vity	
0.1 Reac Not c	tivity lassified as a reactivity	y haza	ırd.	
	nical stability e under normal conditi	ions.		
0.3 Poss	ibility of hazardous	reaction	ons	
	rdous reactions	:		strong oxidizing agents.
	litions to avoid			
Cond	itions to avoid	:	None known.	
	npatible materials			
Mater	rials to avoid	:	Oxidizing agen	ts
No ha	rdous decompositio azardous decompositio	on pro	ducts are known	
No ha	azardous decomposition	infor	ducts are known	
No ha	azardous decomposition I 11: Toxicological mation on toxicologi nation on likely routes	infor	ducts are known	
No ha	Azardous decomposition A 11: Toxicological mation on toxicologi nation on likely routes sure e toxicity	infor	ducts are known mation fects Inhalation Skin contact Ingestion Eye contact	
No ha SECTION Inform expose Acute Not c	azardous decomposition I 11: Toxicological mation on toxicologi nation on likely routes sure e toxicity lassified based on ava	infor	ducts are known mation fects Inhalation Skin contact Ingestion Eye contact	
No ha SECTION 1.1 Infor Inform expose Acute Not c Prode	azardous decomposition I 11: Toxicological mation on toxicologi nation on likely routes sure e toxicity lassified based on ava	infor	ducts are known mation fects Inhalation Skin contact Ingestion Eye contact information.	stimate: > 2.000 mg/kg
No ha SECTION Inform expose Acute Not c <u>Produ</u> Acute	Azardous decomposition A 11: Toxicological mation on toxicologi nation on likely routes sure e toxicity lassified based on ava uct:	infor ical ef of :	ducts are known mation fects Inhalation Skin contact Ingestion Eye contact information. Acute toxicity end Method: Calcula	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist
No ha SECTION Inform expose Acute Not c Produ Acute	Azardous decomposition A 11: Toxicological mation on toxicologi nation on likely routes sure e toxicity lassified based on ava <u>uct:</u> e oral toxicity	infor ical ef of :	ducts are known mation fects Inhalation Skin contact Ingestion Eye contact information. Acute toxicity et Method: Calcula Acute toxicity et Exposure time: Test atmospher	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist
No ha SECTION 1.1 Inform Inform expose Acute Acute Acute Acute Acute Benz	azardous decomposition I 11: Toxicological mation on toxicologi nation on likely routes sure e toxicity lassified based on avain uct: e oral toxicity e inhalation toxicity	infor ical ef of :	ducts are known mation fects Inhalation Skin contact Ingestion Eye contact information. Acute toxicity et Method: Calcula Acute toxicity et Exposure time: Test atmospher	stimate: > 2.000 mg/kg ation method stimate: > 5 mg/l 4 h re: dust/mist ation method



Version 1.8	Revision Date: 30.09.2023		9S Number: 02904-00009	Date of last issue: 04.04.2023 Date of first issue: 29.07.2019
			Test atmosphere Method: OECD T	: dust/mist est Guideline 403
Not cl	corrosion/irritation lassified based on ava ponents:	ilable	information.	
Benz Speci Metho Resul	bd	:	Rabbit OECD Test Guid No skin irritation	eline 404

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Benzyl alcohol:

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

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



Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 04.04.2023
1.8		4702904-00009	Date of first issue: 29.07.2019

Carcinogenicity

Not classified based on available information.

Components:

Benzyl alcohol:

Species	: Mouse
Application Route	: Ingestion
Exposure time	: 103 weeks
Method	: OECD Test Guideline 451
Result	: negative

Reproductive toxicity

Not classified based on available information.

Components:

Benzyl alcohol:

Effects on fertility	:	Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative Remarks: Based on data from similar materials
Effects on foetal develop- ment	:	Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Benzyl alcohol:

Rat
1,072 mg/l
inhalation (dust/mist/fume)
28 Days
OECD Test Guideline 412

Aspiration toxicity

Not classified based on available information.



2: Ecological inform ents: Icohol: o fish o daphnia and other nvertebrates o algae/aquatic	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
Icohol: o fish o daphnia and other overtebrates		Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h
Icohol: o fish o daphnia and other overtebrates		Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h
o fish o daphnia and other overtebrates		Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h
o fish o daphnia and other overtebrates		Exposure time: 96 h EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h
nvertebrates	:	Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h
o algae/aquatic	:	mg/l Exposure time: 72 h
		NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
o daphnia and other nvertebrates (Chron-)	:	NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
nce and degradabili	ity	
ents:		
Icohol:		
dability	:	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d
mulative potential		
ents:		
Icohol: coefficient: n- /ater	:	log Pow: 1,05
in soil available		
of PBT and vPvB as	se	ssment
ent	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or
	nce and degradabili ents: lcohol: dability mulative potential ents: lcohol: coefficient: n- vater in soil available of PBT and vPvB as) nce and degradability ents: lcohol: dability mulative potential ents: lcohol: coefficient: n- vater in soil available of PBT and vPvB asse



Version 1.8	Revision Date: 30.09.2023	SDS Number: 4702904-00009	Date of last issue: 04.04.2023 Date of first issue: 29.07.2019
		very persisten 0.1% or highe	t and very bioaccumulative (vPvB) at levels of r.
12.6 Othe	r adverse effects		
<u>Produ</u> Endoc tial	uct: crine disrupting poten-	ered to have e REACH Article	e/mixture does not contain components consid- endocrine disrupting properties according to e 57(f) or Commission Delegated regulation
		(EU) 2017/210 levels of 0.1%	00 or Commission Regulation (EU) 2018/605 at or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
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.

SECTION 14: Transport information

14.1 UN number

ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good



Version 1.8	Revision Date: 30.09.2023	SDS Numb 4702904-0		Date of last issue: 04.04.2023 Date of first issue: 29.07.2019
IMD	G	: Not reg	gulated as a	a dangerous good
ΙΑΤΑ	N Contraction of the second seco	: Not reg	gulated as a	a dangerous good
14.4 Pac	king group			
ADN	l	: Not reg	gulated as a	a dangerous good
ADR		: Not reg	gulated as a	a dangerous good
RID		: Not reg	gulated as a	a dangerous good
IMD	G	: Not reg	gulated as a	a dangerous good
ΙΑΤΑ	A (Cargo)	: Not reg	gulated as a	a dangerous good
ΙΑΤΑ	(Passenger)	: Not reg	gulated as a	a dangerous good
-	ironmental hazards regulated as a dangero	ous good		
-	cial precautions for u applicable	ser		
14.7 Trar	sport in bulk accord	ing to Annex I	II of Marpo	I and the IBC Code
Rem	arks	: Not app	plicable for	product as supplied.
SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mix- ture				
The AICS	•		ported in t ermined	he following inventories:
DSL		: not det	ermined	

IECSC		:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other informatio	n
Other information	: Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements	
H302	: Harmful if swallowed.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
Full text of other abbreviation	ns
Acute Tox.	: Acute toxicity
Eye Irrit.	: Eye irritation



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
1.8	30.09.2023	4702904-00009	Date of first issue: 29.07.2019

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road: AIIC - Australian Inventory of Industrial Chemicals: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

Sources of key data used to : Int compile the Safety Data eC Sheet cv.

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

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.

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