

Section 1 - Identification

Product Identifier

Product Name <u>Herrold's Medium with Mycobactin</u>

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code R08391

Address Thermo Fisher Scientific New Zealand Ltd

244 Bush Road, Albany, Auckland, New Zealand

Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Telephone / Fax Numbers Tel: 09 980 6700

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Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Not classified as hazardous according to criteria of EPA New Zealand

GHS Classification

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

Environmental hazards

Based on available data, the classification criteria are not met

<u>Label Elements</u> None required

Other hazards which do not result in classification

This product does not contain any known or suspected endocrine disruptors

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Section 3 - Composition and Information on Ingredients

Component	CAS No	Weight %
Water	7732-18-5	82.69
Glycerin	56-81-5	2.44
Meat extracts, beef	68990-09-0	0.24
Ethyl alcohol	64-17-5	1.17
Methyl alcohol	67-56-1	Trace
Ammonium, (4-(p-(dimethylamino)alphaphenylbenzylidene)-2,5-cycl ohexadien-1-ylidene)- dimethyl-, oxalate (2:1), oxalate (1:1)	2437-29-8	Trace
Caseins, hydrolyzates	65072-00-6	0.81
Agar	9002-18-0	1.38
Eggs (raw and processed forms)	RR-13753-1	10.84
Amphotericin B	1397-89-3	Trace
Sodium chloride	7647-14-5	0.41

Section 4 - First Aid Measures

Description of first aid measures

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Inhalation Remove to fresh air.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Self-Protection of the First Aider No special precautions required.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

No information available.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons

No information available.

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

None under normal use conditions.

Special protective equipment and precautions for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

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protective gear.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Emergency procedures

Ensure adequate ventilation.

Environmental Precautions

See Section 12 for additional Ecological Information.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal.

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Advice on safe handling

Ensure adequate ventilation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

Incompatible Materials

None known.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Control parameters

Exposure limits

NZ - Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

ACGIH - Threshold Limit Values - Ceiling (TLV-C) guidelines by the American Conference of Governmental Industrial Hygienists (ACGIH) for controlling worker exposure to airborne chemical concentrations in the workplace.

AUS - Exposure Standards for Atmospheric Contaminants in the Occupational Environment - Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:3008(1995)]

Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)] updated in August, 2005. Safe Work Australia

UK - EH40/2005 Work Exposure Limits, Fourth edition. Published 2020.

Component	New Zealand WEL	Australia	ACGIH TLV	The United Kingdom
Glycerin	TWA: 10 mg/m ³	TWA: 10 mg/m ³		TWA: 10 mg/m ³ 8 hr (mist
	_	_		only)
Ethyl alcohol	TWA: 1000 ppm	TWA: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm TWA; 1920

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	TWA: 1880 mg/m ³	TWA: 1880 mg/m ³		mg/m³ TWA
	_	_		WEL - STEL: 3000 ppm
				STEL; 5760 mg/m ³ STEL
Methyl alcohol	TWA: 200 ppm	STEL: 250 ppm	TWA: 200 ppm	WEL - TWA: 200 ppm TWA;
	TWA: 262 mg/m ³	STEL: 328 mg/m ³	STEL: 250 ppm	266 mg/m³ TWA
	STEL: 250 ppm	TWA: 200 ppm	Skin	WEL - STEL: 250 ppm
	STEL: 328 mg/m ³	TWA: 262 mg/m ³		STEL; 333 mg/m ³ STEL
	Skin			

Biological limit values

NZ - Substances assigned Biological Exposure Indices in the New Zealand Workplace Exposure Standards and Biological Exposure Indices (6th edition). New Zealand Department of Labor

ACGIH - American Conference of Governmental Industrial Hygienists (ACGIH) TLVs® and BEIs®- Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices. 2022 Edition

Component	New Zealand	Australia	ACGIH - Biological Exposure Indices	United Kingdom
Methyl alcohol	15 mg/L (urine) end of shift		15 mg/L	
	(Methyl alcohol)		Medium: urine	
			Time: end of shift	
			Determinant: Methanol	

Appropriate engineering controls

Engineering Measures

None under normal use conditions.

Individual protection measures, such as personal protective equipment

Eye Protection Wear safety glasses with side shields (or goggles) (Australian/New Zealand Standard

AS/NZS 1337 - Eye protectors for Industrial applications)

Hand Protection Protective gloves

Glove material	Breakthrough time	Glove thickness	AUS/NZ Standard	Glove comments
Disposable gloves.	See manufacturers	-	AS/NZS 2161	(minimum requirement)
	recommendations			

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Repiratory ProtectionUse an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Recommended Filter type: Particle filter (or AUS/NZ equivalent)

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

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Physical State Solid Gel Consistency

Appearance

Explosion Limits

No information available Odor **Odor Threshold** No data available No information available pН **Melting Point/Range** No data available **Softening Point** No data available **Boiling Point/Range** No information available Flammability (liquid) No data available Flammability (solid,gas) No information available

Flash Point No information available Method - No information available

No data available

Autoignition Temperature No data available **Decomposition Temperature** No data available Viscosity No data available Water Solubility No information available Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Component log Pow Glycerin -1.75Ethyl alcohol -0.32 Methyl alcohol -0.74

Vapor Pressure No data available **Density / Specific Gravity** No data available **Bulk Density** No data available **Vapor Density** No data available

(Air = 1.0)No data available

Particle characteristics

Other information

VOC Content(%) 3.67

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under normal conditions.

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Hazardous Polymerization No information available.

Hazardous Reactions No information available.

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials None known.

Hazardous Decomposition Products None under normal use conditions.

Section 11 - Toxicological Information

Acute Effects

Information on likely routes of exposure

Product Information

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InhalationNot an expected route of exposure.EyesNot an expected route of exposure.

SkinNo known effect based on information supplied.IngestionNo known effect based on information supplied.

Numerical measures of toxicity

(a) acute toxicity;

OralBased on available data, the classification criteria are not metDermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	-	-
Glycerin	12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 2.75 mg/L/4h (Rat)(mist)
Ethyl alcohol	LD50 = 7060 mg/kg (Rat)		20000 ppm/10H (Rat)
Methyl alcohol	LD50 = 1187 – 2769 mg/kg (Rat)	LD50 = 17100 mg/kg (Rabbit)	LC50 = 128.2 mg/L (Rat) 4 h
Ammonium,	LD50 = 275 mg/kg (Rat)		
(4-(p-(dimethylamino)alphaphenylbenzyli			
dene)-2,5-cyclohexadien-1-ylidene)-			
dimethyl-, oxalate (2:1), oxalate (1:1)			
Agar	LD50 = 11 g/kg (Rat)		
Amphotericin B	LD50 > 5 g/kg (Rat)		
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10000 mg/kg (Rabbit)	LC50 > 42 mg/L (Rat) 1 h

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

Component	Test method	Test species	Study result
Methyl alcohol	OECD Test Guideline 406	guinea pig	non-sensitising
67-56-1 (Trace)	Guinea Pig Maximisation Test		_
, ,	(GPMT)		

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B) The table below indicates whether each agency has listed any ingredient as a carcinogen Ethanol has been shown to be carcinogenic in long-term studies only when consumed and abused as an alcoholic beverage.

(g) reproductive toxicity; No data available

Component	Test method	Test species / Duration	Study result
Methyl alcohol	OECD Test Guideline 416	Rat / Inhalation 2 Generation	NOAEC = 1.3 mg/l (air)
67-56-1 (Trace)			

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(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and delayed

No information available.

Section 12 - Ecological Information

Ecotoxicity

Aquatic ecotoxicity Contains no substances known to be hazardous to the environment or that are not

degradable in waste water treatment plants.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Glycerin	LC50: 51 - 57 mL/L, 96h static (Oncorhynchus mykiss)			
Ethyl alcohol	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	Photobacterium phosphoreum:EC50 = 34634 mg/L/30 min Photobacterium phosphoreum:EC50 = 35470 mg/L/5 min
Methyl alcohol	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 > 10000 mg/L 24h		EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min
Ammonium, (4-(p-(dimethylamino)alphaphenylbenzyli dene)-2,5-cyclohexadien-1-ylidene)- dimethyl-, oxalate (2:1), oxalate (1:1)	LC50: 0.14 mg/L/96h (Ictalunus Puntatus)	EC50: 0.29 mg/L/48h		
Sodium chloride	Pimephals prome: LC50: 7650 mg/L/96h	EC50: 1000 mg/L/48h		

Terrestrial ecotoxicity

Component	Earthworm	Avian	Honeybees
Ethyl alcohol	Acute toxicity: LC50 0.1 - 1		
	mg/cm2 (Eisenia foetida, 48 h,		
	filter paper)		
Methyl alcohol	Acute toxicity: LC50 > 1 mg/cm2		
	(Eisenia foetida, 48 h, filter		
	paper)		
Sodium chloride	Acute toxicity: LC50 0.1 - 1		
	mg/cm2 (Eisenia foetida, 48 h,		
	filter paper)		

Persistence and Degradability No information available

Component	Degradability
Methyl alcohol	DT50 ~ 17.2d
67-56-1 (Trace)	>94% after 20d

Bioaccumulative Potential No information available

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Component	log Pow	Bioconcentration factor (BCF)
Glycerin	-1.75	No data available
Ethyl alcohol	-0.32	No data available
Methyl alcohol	-0.74	<10 dimensionless

Mobility No information available. .

Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

Section 13 - Disposal Considerations

Waste treatment methods

Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

Contaminated Packaging

Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use

empty containers.

Other Information

Disposal agencies or waste contractors must comply with the New Zealand Hazardous Substances (Disposal) Regulations .

Section 14 - Transport Information

Component	Hazchem Code
Ethyl alcohol	2YE
64-17-5 (1.17)	2Y
Methyl alcohol	2WE
67-56-1 (Trace)	

NZS 5433:2020 Not regulated

<u>IATA</u> Not regulated

<u>IMDG/IMO</u> Not regulated

Environmental hazards No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable, packaged goods

Special Precautions No special precautions required. Please refer to the applicable dangerous goods

regulations for additional information.

Additional information None known

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Section 15 - Regulatory Information

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

National Regulations

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information. Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information.

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Component	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	IMDG Marine Pollutant
Methyl alcohol	500 tonne	5000 tonne	

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Methyl alcohol	-	Use restricted. See item 69. (see link for restriction details) Use restricted. See item 75. (see link for restriction details)	-
Ammonium, (4-(p-(dimethylamino)alphaph enylbenzylidene)-2,5-cyclohexadi en-1-ylidene)- dimethyl-, oxalate (2:1), oxalate (1:1)		Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

International Inventories

New Zealand (NZIoC), Australia (AICS), Europe (EINECS/ELINCS/NLP), Korea (KECL), China (IECSC), Taiwan (TCSI), Japan (ISHL), Canada (DSL/NDSL), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	NZIoC	AICS	EINECS	ELINCS	NLP	KECL	IECSC	TCSI
Water	7732-18-5	X	Х	231-791-2	-	-	KE-35400	X	X
Glycerin	56-81-5	X	Х	200-289-5	-	-	KE-29297	X	Х
Meat extracts, beef	68990-09-0	-	Х	273-578-7	-	-	KE-23065	X	Х
Ethyl alcohol	64-17-5	X	Χ	200-578-6	-	-	KE-13217	Х	Х
Methyl alcohol	67-56-1	X	Х	200-659-6	-	-	KE-23193	X	Х

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Ammonium, (4-(p-(dimethylamino)alphaphen ylbenzylidene)-2,5-cyclohexadien- 1-ylidene)- dimethyl-, oxalate (2:1), oxalate (1:1)		Х	Х	219-441-7	-	-	KE-03042	Х	Х
Caseins, hydrolyzates	65072-00-6	Х	Х	265-363-1	-	-	KE-05-031 8	Х	X
Agar	9002-18-0	Х	Х	232-658-1	-	-	KE-00275	Х	Х
Eggs (raw and processed forms)	RR-13753-1	=	-	-	-	-	-	-	-
Amphotericin B	1397-89-3	X	X	215-742-2		-	-	Χ	Х
Sodium chloride	7647-14-5	Х	Х	231-598-3	-	-	KE-31387	Х	Х

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	PICCS	ISHL	ENCS
Water	7732-18-5	Х	ACTIVE	Х	-	Х	-	Х
Glycerin	56-81-5	Х	ACTIVE	Х	-	Х	Х	Х
Meat extracts, beef	68990-09-0	Х	ACTIVE	Х	-	Х	-	-
Ethyl alcohol	64-17-5	Х	ACTIVE	Х	-	Х	Х	Х
Methyl alcohol	67-56-1	Х	ACTIVE	Х	-	Х	Х	Х
Ammonium, (4-(p-(dimethylamino)alphaphen ylbenzylidene)-2,5-cyclohexadien- 1-ylidene)- dimethyl-, oxalate (2:1), oxalate (1:1)		X	ACTIVE	X	-	X	X	X
Caseins, hydrolyzates	65072-00-6	X	ACTIVE	X	-	X	X	X
Agar	9002-18-0	X	ACTIVE	X	-	X	-	-
Eggs (raw and processed forms)	RR-13753-1	ı	-	-	-	-	1	-
Amphotericin B	1397-89-3	-	=	-	-	Х	-	Х
Sodium chloride	7647-14-5	Χ	ACTIVE	Х	-	Χ	X	Х

Legend: X - Listed '-' - Not Listed

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

Section 16 - Other Information

This safety data sheet complies with the requirements of the EPA Hazardous Substances (Hazard Classification) Notice 2020 and WorkSafe New Zealand Regulations

Legend

NZIoC - New Zealand Inventory of Chemicals

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

NZS 5433:2020 - Transport of Dangerous Goods on Land

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from Ships

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50%

WEL - Workplace Exposure Limit

DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

AICS - Australian Inventory of Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

OECD - Organisation for Economic Co-operation and Development **IMO/IMDG** - International Maritime Organization/International Maritime

Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

LC50 - Lethal Concentration 50%

ATE - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

HSNO classifications provided in the New Zealand Chemical Classification Information Database (CCID). https://echa.europa.eu/information-on-chemicals

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Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS EPA Guide to classifying hazardous substances in New Zealand EPA - Assigning a product to an existing HSNO approval guide

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards

On basis of test data

Health Hazards

Calculation method

Environmental hazards

Calculation method

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Revision Date 05-Jul-2023 Revision Summary Not applicable

Disclaimer

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

End of Safety Data Sheet

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