

### Classified as hazardous in accordance with the criteria of EPA New Zealand

### **Section 1 - Identification**

**Product Identifier** 

Product Name <u>Cyclohexylamine</u>

**CAS No** 108-91-8

Molecular Formula C6 H13 N Molecular Weight 99.18

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code A15851

Address Thermo Fisher Scientific New Zealand Ltd

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### **Section 2 - Hazard(s) Identification**

Classification under Work Safe New Zealand

Classified as hazardous in accordance with the criteria of EPA New Zealand

HSNO Approval Number HSR001532

**GHS Classification** 

Physical hazards

Flammable liquids Category 3

**Health hazards** 

Acute Oral Toxicity Category 2 **Acute Dermal Toxicity** Category 3 Acute Inhalation Toxicity - Vapors Category 2 Skin Corrosion/Irritation Category 1 B Serious Eye Damage/Eye Irritation Category 1 Skin Sensitization Category 1 Germ Cell Mutagenicity Category 2 Reproductive Toxicity Category 2

**Environmental hazards** 

Chronic aquatic toxicity Category 4

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#### **Label Elements**



#### Signal Word

#### **Danger**

#### **Hazard Statements**

- H314 Causes severe skin burns and eye damage
- H226 Flammable liquid and vapor
- H311 Toxic in contact with skin
- H361 Suspected of damaging fertility or the unborn child
- H317 May cause an allergic skin reaction
- H413 May cause long lasting harmful effects to aquatic life
- H341 Suspected of causing genetic defects if inhaled
- H300 + H330 Fatal if swallowed or if inhaled

#### **Precautionary Statements**

#### Prevention

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P233 Keep container tightly closed
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P240 Ground and bond container and receiving equipment
- P241 Use explosion-proof electrical/ ventilating/ lighting equipment
- P243 Take action to prevent static discharges
- P242 Use non-sparking tools
- P270 Do not eat, drink or smoke when using this product
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection

#### Response

- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P310 Immediately call a POISON CENTER or doctor
- P330 Rinse mouth
- P331 Do NOT induce vomiting
- P363 Wash contaminated clothing before reuse
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

#### Storage

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P405 Store locked up

#### Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

#### Other hazards which do not result in classification

Toxic to terrestrial vertebrates

## **Section 3 - Composition and Information on Ingredients**

Component	CAS No	Weight %
	37101110	Trong ,t

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Cyclohexylamine	108-91-8	>95

### **Section 4 - First Aid Measures**

**Description of first aid measures** 

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

New Zealand Emergency Tel. CHEMTREC®

09 980 6780 or +64 9 980 6780

Inhalation If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim

ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Remove to fresh

air. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Causes burns by all exposure routes. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

Notes to Physician Treat symptomatically.

### **Section 5 - Fire Fighting Measures**

#### **Suitable Extinguishing Media**

Water mist may be used to cool closed containers. CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

#### 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. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

#### **Hazardous Combustion Products**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NOx), Thermal decomposition can lead to release of irritating gases and vapors.

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

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### **Section 6 - Accidental Release Measures**

#### Personal Precautions, Protective Equipment and Emergency Procedures

#### **Emergency procedures**

Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges.

#### **Environmental Precautions**

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

#### Methods for Containment and Clean Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

#### 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

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for Safe Storage, Including any Incompatibilities

#### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from heat, sparks and flame.

#### **Incompatible Materials**

Strong oxidizing agents.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals AS 1940-2004 - The storage and handling of flammable and combustible liquids

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

**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

Component	New Zealand WEL	Australia	ACGIH TLV	The United Kingdom
Cyclohexylamine	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	STEL: 30 ppm 15 min

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TWA: 41 mg/m <sup>3</sup>	TWA: 41 mg/m <sup>3</sup>	STEL: 123 mg/m <sup>3</sup> 15 min
_	_	TWA: 10 ppm 8 hr
		TWA: 41 mg/m <sup>3</sup> 8 hr

#### **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

#### Appropriate engineering controls

#### **Engineering Measures**

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Individual protection measures, such as personal protective equipment

Eye Protection 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
Natural rubber, Nitrile	See manufacturers	-	AS/NZS 2161	(minimum requirement)
rubber, Neoprene, PVC.	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 Protection**Use 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: Particulates filter conforming to EN 143 Ammonia and organic ammonia derivatives filter

Type K Green conforming to EN14387 (or AUS/NZ equivalent)

Recommended half mask:- Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141 (or AUS/NZ equivalent)

When RPE is used a face piece Fit Test should be conducted

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

**Environmental exposure controls** Prevent product from entering drains.

## **Section 9 - Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Physical State Liquid

Appearance Colorless Odor Fishy

Odor Threshold No data available

**pH** 11.5 100 g/L ag.sol

Melting Point/Range -17 °C / 1.4 °F Softening Point No data available

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**Explosion Limits** 

### SAFETY DATA SHEET

**Boiling Point/Range** 133 - 134 °C / 271.4 - 273.2 °F

Flammability (liquid) Flammable On basis of test data

Flammability (solid,gas) Not applicable Liquid

Lower 1.6 vol%

Upper 9.4 vol%

27 °C / 80.6 °F Flash Point Method - CC (closed cup)

**Autoignition Temperature** 293 - °C / 559.4 - °F **Decomposition Temperature** No data available 2.4 mPa.s @ 20°C **Viscosity** Soluble in water **Water Solubility** 

No information available Solubility in other solvents

Partition Coefficient (n-octanol/water)

log Pow Component Cyclohexylamine 3.7

13 mbar @ 20 °C **Vapor Pressure** 

**Density / Specific Gravity** 0.867

**Bulk Density** Not applicable Liquid **Vapor Density** No data available (Air = 1.0)

Particle characteristics Not applicable (liquid)

Other information

Molecular Formula C6 H13 N **Molecular Weight** 99.18

**Explosive Properties** explosive air/vapour mixtures possible

### **Section 10 - Stability and Reactivity**

None known, based on information available Reactivity

Stable under normal conditions. Stability

**Sensitivity to Mechanical Impact** No information available

Sensitivity to Static Discharge No information available

Hazardous polymerization does not occur. **Hazardous Polymerization** 

**Hazardous Reactions** None under normal processing.

**Conditions to Avoid** Incompatible products, Excess heat, Keep away from open flames, hot surfaces and

sources of ignition.

**Incompatible Materials** Strong oxidizing agents.

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NOx). Thermal

decomposition can lead to release of irritating gases and vapors.

## **Section 11 - Toxicological Information**

#### **Acute Effects**

#### Information on likely routes of exposure

#### **Product Information**

Not an expected route of exposure. Inhalation

**Eyes** Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including

Avoid contact with skin. Causes burns. Harmful in contact with skin. Skin

Ingestion May be harmful if swallowed.

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#### Numerical measures of toxicity

(a) acute toxicity;

Oral Category 4
Dermal Category 3

**Inhalation** Based on available data, the classification criteria are not met

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cyclohexylamine	LD50 = 432 mg/kg (Rat)	277 mg/kg ( Rabbit )	LC50 = 1000 ppm (Rat) 16 h

(b) skin corrosion/irritation; Category 1 B
Test method Test method BASF

Test species rabbit
Observational endpoint Corrosive

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

**Respiratory**Skin
Based on available data, the classification criteria are not met
Based on available data, the classification criteria are not met

(e) germ cell mutagenicity; Based on available data, the classification criteria are not met

(f) carcinogenicity; Based on available data, the classification criteria are not met

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; Category 2

(h) STOT-single exposure; Based on available data, the classification criteria are not met

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Target Organs None known.

(j) aspiration hazard; Based on available data, the classification criteria are not met

#### Symptoms / effects,both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

## **Section 12 - Ecological Information**

#### **Ecotoxicity**

**Aquatic ecotoxicity**Do not empty into drains. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment.

	Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Ī	Cyclohexylamine	LC50: 44 - 90 mg/L,		EC50: = 20 mg/L, 96h	EC50 = 120 mg/L 30
١		96h (Oncorhynchus		(Pseudokirchneriella	min
١		mykiss)		subcapitata)	

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**Terrestrial ecotoxicity** There is no data for this product

Persistence and Degradability Readily biodegradable

**Persistence** Persistence is unlikely.

Degradation in sewage treatment

plant

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

**Bioaccumulative Potential** Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Cyclohexylamine	3.7	No data available

The product is water soluble, and may spread in water systems. . Will likely be mobile in Mobility

the environment due to its water solubility. Highly mobile in soils

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** Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

Other Information Disposal agencies or waste contractors must comply with the New Zealand Hazardous

> Substances (Disposal) Regulations. Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations. Do not empty into drains. Large amounts will affect pH and harm aquatic organisms. Solutions with high pH-value must be

neutralized before discharge.

### **Section 14 - Transport Information**

Component	Hazchem Code
Cyclohexylamine	2W
108-91-8 ( >95 )	

NZS 5433:2020

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Proper Shipping Name CYCLOHEXYLAMINE

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group ||

<u>IATA</u>

UN-No UN2357

Proper Shipping Name CYCLOHEXYLAMINE

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group ||

IMDG/IMO

UN-No UN2357

Proper Shipping Name CYCLOHEXYLAMINE

Hazard Class 8
Subsidiary Hazard Class 3
Packing Group ||

Environmental hazards No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable, packaged goods

IBC Code

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

regulations for additional information.

Additional information None known

### **Section 15 - Regulatory Information**

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

HSNO Approval Number	HSR001532
•	•

#### **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

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## Authorisation/Restrictions according to EU REACH

Component	. ,	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	,
Cyclohexylamine	-	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)

L	Component	CAS No	NZIOC	AICS	INECS	ELINCS	NLP	KECL	IECSC	ICSI
	Cyclohexylamine	108-91-8	X	X 20	3-629-0	-	ı	KE-09215	X	X
Ī										
	Component	CAS No	TSCA	notification -		DSL	NDSL	PICCS	ISHL	ENCS
L				Active-Ina	ctive					
Г	Cyclohexylamine	108-91-8	X	ACTIVE		Χ	_	X	X	X

**Legend:** X - Listed '-' - Not Listed

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

1100 ENIEGO EL 11100

### **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

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

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

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#### **Training Advice**

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

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Revision Date 15-Mar-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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