



Safety Data Sheet

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LOCTITE PC 7210 Part B

SDS No. : 424226

V002.7

Revision: 26.02.2025

printing date: 01.08.2025

Section 1. Identification of the substance/preparation and of the company/undertaking

Product name: LOCTITE PC 7210 Part B

Other means of identification: LOCTITE PC 7210 HARDENER

Product code: IDH2079563

Recommended use of the chemical and restrictions on use

Intended use: Epoxy resin

Manufacturer/Importer/Distributor Representative Company

Henkel Adhesive Tech. Vietnam Co., Ltd,
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Emergency Telephone for Chemical Accidents: FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call: +84 28 71006388

Section 2. Hazards identification

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>	<u>Target organ</u>
Acute toxicity	Category 4	Oral	
Acute toxicity	Category 4	Inhalation	
Skin corrosion/irritation	Category 1B		
Serious eye damage/eye irritation	Category 1		
Skin sensitizer	Category 1		
Specific target organ toxicity - repeated exposure	Category 2	Oral	Liver
			Muscles
Chronic hazards to the aquatic environment	Category 3		

GHS label elements:

Hazard pictogram:



Signal word:

Danger

Hazard statement: H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
H412 Harmful to aquatic life with long lasting effects.

Precaution:

Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response: P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Section 3. Composition / information on ingredients
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Substance or Mixture:

Mixture

Declaration of hazardous chemical:

Hazard component CAS-No.	Content	GHS Classification
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated 68683-29-4	10- 30 %	Skin corrosion/irritation 2 H315 Skin Sensitization 1 H317
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	10- 30 %	Skin corrosion/irritation 2 H315 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Acute hazards to the aquatic environment 2 H401 Chronic hazards to the aquatic environment 2 H411
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	10- 30 %	Acute toxicity 4; Oral H302 Acute toxicity 5; Dermal H313 Skin corrosion/irritation 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Specific target organ toxicity - repeated exposure 2; Oral H373 Acute hazards to the aquatic environment 2 H401
2,2'-iminodiethylamine 111-40-0	1- 10 %	Acute toxicity 4; Oral H302 Acute toxicity 2; Inhalation H330 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1B H317 Target Organ Systemic Toxicant - Single exposure 3 H335 Acute hazards to the aquatic environment 3 H402
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	1- 10 %	Acute toxicity 4; Oral H302 Skin corrosion/irritation 1C H314 Serious eye damage/eye irritation 1 H318 Acute hazards to the aquatic environment 3 H402
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	1- 10 %	Acute toxicity 4; Ingestion H302 Acute toxicity 4; Dermal H312 Skin corrosion/irritation 1B H314 Serious eye damage/eye irritation 1 H318 Skin Sensitization 1 H317 Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412
2-piperazin-1-ylethylamine	1- 10 %	Acute toxicity 4; Oral

140-31-8		H302 Acute toxicity 3; Dermal H311 Skin corrosion/irritation 1B H314 Skin Sensitization 1B H317 Reproductive toxicant. 2 H361 Acute hazards to the aquatic environment 3 H402 Chronic hazards to the aquatic environment 3 H412
4,4'-diaminodiphenylmethane 101-77-9	< 0.1 %	Acute toxicity 3; Oral H301 Acute toxicity 5; Dermal H313 Skin Sensitization 1 H317 Germ cell mutagenicity 2 H341 Carcinogenicity 1B H350 Target Organ Systemic Toxicant - Single exposure 1 H370 Specific target organ toxicity - repeated exposure 2 H373 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

Section 4. First aid measures

Inhalation:	Move to fresh air. If symptoms persist, seek medical advice.
Skin contact:	Rinse with running water and soap. Obtain medical attention if irritation persists.
Eye contact:	Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.
Ingestion:	Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.
Indication of immediate medical attention and special treatment needed:	See section: Description of first aid measures

Section 5. Fire fighting measures

Suitable extinguishing media:	water, carbon dioxide, foam, powder
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Specific hazards arising from the chemical:	Do not expose to direct heat. In the event of a fire, carbon monoxide (CO), carbon dioxide (CO ₂) and nitrogen oxides (NO _x) can be released.
Special protection equipment and precautions for firefighters:	Wear self-contained breathing apparatus.
Hazardous combustion products:	Oxides of carbon.
Additional fire fighting advice:	In case of fire, keep containers cool with water spray.

Section 6. Accidental release measures

Personal precautions:	Ensure adequate ventilation. Avoid skin and eye contact. Wear protective equipment.
Environmental precautions:	Do not let product enter drains.
Clean-up methods:	For large spills absorb onto inert absorbent material and place in sealed container for disposal. Dispose of contaminated material as waste according to Section 13.

Section 7. Handling and storage

Handling:	Avoid skin and eye contact. Use only in well-ventilated areas. Gloves and safety glasses should be worn
Storage:	Store in sealed original container. Store in a cool, well-ventilated place. Storage at 8 to 28°C is recommended. Refer to Technical Data Sheet.

Section 8. Exposure controls / personal protection

Components with specific control parameters for workplace:

DIETHYLENE TRIAMINE 111-40-0	Value type	Time Weighted Average (TWA):
	ppm	1
	Remarks	ACGIH
DIETHYLENE TRIAMINE 111-40-0	Value type	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption
4,4'-METHYLENE DIANILINE 101-77-9	Value type	Time Weighted Average (TWA):
	ppm	0.1
	Remarks	ACGIH
DIAMINO 4,4'-DIPHENYL METHANE 101-77-9	Value type	Short-term exposure limit (STEL):
	mg/m³	0.8
	Remarks	VN OEL
4,4'-METHYLENE DIANILINE 101-77-9	Value type	Skin designation:
	Remarks	ACGIH Danger of cutaneous absorption

Respiratory protection:

Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

Hand protection:

Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; ≥ 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; ≥ 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
Protective eye equipment should conform to EN166.

Body protection:

Wear suitable protective clothing.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Engineering controls:

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

General protection and hygiene measures:

The workplace should be equipped with an emergency shower and eye-rinsing facility.

Hygienic measures:

Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Take off contaminated clothing and wash before reuse.

Section 9. Physical and chemical properties

Appearance:	Red liquid
Odor:	ammoniacal
Odor threshold (CA):	No data available.
pH:	Not applicable, Product is non-soluble (in water).
Melting point / freezing point:	Not applicable, Product is a liquid
Specific gravity:	No data available.
Boiling point:	> 200 °C (> 392 °F)
Flash point:	> 90 °C (> 194 °F)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Lower explosive limit:	No data available.
Upper explosive limit:	No data available.
Vapor pressure: (no method / method unknown; 50 °C (122 °F))	< 700 mbar
Vapor density:	No data available.
Density:	0.97 g/cm ³
Solubility:	Soluble
Partition coefficient: n-octanol/water:	No data available.
Auto ignition:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
VOC content: (2010/75/EC)	< 3 %

Section 10. Stability and reactivity

Reactivity/Incompatible materials:	Reaction with strong acids.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Stable under normal conditions of storage and use. Avoid contact with acids and oxidizing agents.
Hazardous decomposition products:	carbon oxides.

Section 11. Toxicological information

Oral toxicity:	Acute toxicity estimate (ATE) : 1,814 mg/kg Method: Calculation method
Inhalative toxicity:	Acute toxicity estimate (ATE) : 2.69 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Dermal toxicity:	Acute toxicity estimate (ATE) : > 2,000 mg/kg Method: Calculation method

Symptoms of Overexposure: INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

SKIN: Rash, Urticaria.
Causes burns.

Acute oral toxicity:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated 68683-29-4	Value type	LD50
	Value	> 15,380 mg/kg
	Species	rat
	Method	not specified
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 423 (Acute Oral toxicity)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	LD50
	Value	380 mg/kg
	Species	rat
	Method	EPA OPP 81-1 (Acute Oral Toxicity)
2,2'-iminodiethylamine 111-40-0	Value type	LD50
	Value	1,553 mg/kg
	Species	rat
	Method	OECD Guideline 401 (Acute Oral Toxicity)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Value type	LD50
	Value	1,200 mg/kg
	Species	rat
	Method	not specified
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Value type	LD50
	Value	1,716 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
4,4'-diaminodiphenylmethane 101-77-9	Value type	LD50
	Value	> 50 mg/kg
	Species	cat
	Method	BASF Test
4,4'-diaminodiphenylmethane 101-77-9	Value type	Acute toxicity estimate (ATE)
	Value	100 mg/kg
	Species	
	Method	Expert judgement

Acute inhalative toxicity:

2,2'-iminodiethylamine 111-40-0	Value type	LD 50
	Value	> 0.07 - < 0.30 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
2,2'-iminodiethylamine 111-40-0	Value type	Acute toxicity estimate (ATE)
	Value	0.071 mg/l
	Exposure time	
	Species	
	Method	Expert judgement
2-piperazin-1-ylethylamine 140-31-8	Value type	Acute toxicity estimate (ATE)
	Value	> 10 mg/l
	Exposure time	4 h
	Species	
	Method	Expert judgement
4,4'-diaminodiphenylmethane 101-77-9	Value type	LC50
	Value	> 0.46 mg/l
	Exposure time	6 h
	Species	rat
	Method	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

Acute dermal toxicity:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated 68683-29-4	Value type	LD50
	Value	> 3,000 mg/kg
	Species	rabbit
	Method	not specified
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Value type	LD50
	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	LD50
	Value	2,110 mg/kg
	Species	rabbit
	Method	not specified
2,2'-iminodiethylamine 111-40-0	Value type	LD50
	Value	1,045 mg/kg
	Species	rabbit
	Method	not specified
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Value type	LD50
	Value	1,465 mg/kg
	Species	rabbit
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2-piperazin-1-ylethylamine 140-31-8	Value type	LD50
	Value	866 mg/kg
	Species	rabbit
	Method	Draize Test
4,4'-diaminodiphenylmethane 101-77-9	Value type	LD50
	Value	2,080 mg/kg
	Species	rat
	Method	not specified

Skin corrosion/irritation:

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Result	irritating or corrosive
	Exposure time	
	Species	Human, EpiDerm™ SIT (EPI-200), Reconstructed Human Epidermis (RHE)
	Method	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and	Result	not corrosive
	Exposure time	

triethylenetetramine 68082-29-1	Species	Human, in vitro skin model
	Method	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Result	corrosive
	Exposure time	2.75 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,2'-iminodiethylamine 111-40-0	Result	corrosive
	Exposure time	15 min
	Species	rabbit
	Method	BASF Test
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Result	corrosive
	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Result	Sub-Category 1C (corrosive)
	Exposure time	
	Species	Corrositex Biobarrier Membrane (reconstituted collagen matrix)
	Method	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	corrosive
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-piperazin-1-ylethylamine 140-31-8	Result	corrosive
	Exposure time	20 min
	Species	rabbit
	Method	not specified
4,4'-diaminodiphenylmethane 101-77-9	Result	not irritating
	Exposure time	24 h
	Species	rabbit
	Method	not specified

Serious eye damage/irritation:

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Result	Category 1 (irreversible effects on the eye)
	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Result	Category 1 (irreversible effects on the eye)
	Exposure time	
	Species	rabbit
	Method	not specified
2,2'-iminodiethylamine 111-40-0	Result	corrosive
	Exposure time	30 s
	Species	rabbit
	Method	not specified
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	Category 1 (irreversible effects on the eye)
	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
4,4'-diaminodiphenylmethane 101-77-9	Result	not irritating
	Exposure time	
	Species	rabbit
	Method	not specified

Respiratory or skin sensitization:

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Result	sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
2,2'-iminodiethylamine 111-40-0	Result	sensitising
	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Result	not sensitising
	Test type	Buehler test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Result	not sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	Sensitizing
	Test type	Buehler test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
2-piperazin-1-ylethylamine 140-31-8	Result	sensitising
	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
4,4'-diaminodiphenylmethane 101-77-9	Result	sensitising
	Test type	Patch-Test
	Species	human
	Method	human repeat insult patch test

Germ cell mutagenicity:

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
2,2'-iminodiethylamine 111-40-0	Result	positive
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,2'-iminodiethylamine 111-40-0	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	Chromosome Aberration Test
2,2'-iminodiethylamine 111-40-0	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2,2'-iminodiethylamine 111-40-0	Result	negative
	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	mouse
	Method	not specified
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	positive
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	negative
	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
	Method	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
2-piperazin-1-ylethylamine 140-31-8	Result	negative
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-piperazin-1-ylethylamine 140-31-8	Result	negative
	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	with and without
	Method	not specified

2-piperazin-1-ylethylamine 140-31-8	Result	negative
	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	not specified
2-piperazin-1-ylethylamine 140-31-8	Result	negative
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
	Species	mouse
4,4'-diaminodiphenylmethane 101-77-9	Method	not specified
	Result	positive with metabolic activation
	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
	Metabolic activation / Exposure time	with and without
4,4'-diaminodiphenylmethane 101-77-9	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	Result	negative
	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
4,4'-diaminodiphenylmethane 101-77-9	Method	OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	Result	positive
	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	without
4,4'-diaminodiphenylmethane 101-77-9	Method	equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
	Result	positive
	Type of study / Route of administration	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro
	Metabolic activation / Exposure time	without
4,4'-diaminodiphenylmethane 101-77-9	Method	equivalent or similar to OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells)
	Result	positive
	Type of study / Route of administration	intraperitoneal
	Metabolic activation / Exposure time	
4,4'-diaminodiphenylmethane 101-77-9	Species	mouse
	Method	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
	Result	positive
	Type of study / Route of administration	oral: gavage
4,4'-diaminodiphenylmethane 101-77-9	Metabolic activation / Exposure time	
	Species	rat
	Method	not specified

Repeated dose toxicity:

4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Result	NOAEL=15 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	M: 36 d / F: 48-52 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
2,2'-iminodiethylamine 111-40-0	Result	NOAEL=70 - 80 mg/kg
	Route of application	oral: feed
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	not specified
2,2'-iminodiethylamine 111-40-0	Result	NOAEL=0.55 mg/l
	Route of application	inhalation: vapour
	Exposure time / Frequency of treatment	15 d6 h/d
	Species	rat
	Method	not specified
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	LOAEL=50 mg/kg
	Route of application	oral: gavage
	Exposure time / Frequency of treatment	26 wdaily
	Species	rat
	Method	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2-piperazin-1-ylethylamine 140-31-8	Result	NOAEL=2000 ppm
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	>= 28 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
4,4'-diaminodiphenylmethane 101-77-9	Result	LOAEL=7.5 mg/kg
	Route of application	oral: drinking water
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
4,4'-diaminodiphenylmethane 101-77-9	Result	NOAEL=>= 90 mg/kg
	Route of application	dermal
	Exposure time / Frequency of treatment	70 d4-6 per week
	Species	rat
	Method	OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
4,4'-diaminodiphenylmethane 101-77-9	Result	LOAEL=0.44 mg/l
	Route of application	inhalation: aerosol
	Exposure time / Frequency of treatment	14 d4 h/d 5 d/w
	Species	guinea pig
	Method	not specified

Section 12. Ecological information

General ecological information:

Do not empty into drains / surface water / ground water.

Ecotoxicity:

H412 Harmful to aquatic life with long lasting effects.

Toxicity:

2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated 68683-29-4	Value type	EC50
	Value	1,000 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated 68683-29-4	Value type	EC50
	Value	> 1,000 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	not specified
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Value type	LC50
	Value	7.07 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Value type	EC50
	Value	7.07 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Value type	EC50
	Value	4.34 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	0.5 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Value type	EC10
	Value	130 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Leuciscus idus
	Method	DIN 38412-15
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	EC50
	Value	7.07 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	EC50
	Value	> 140 - 200 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)
	Method	DIN 38412-09
	Value type	EC10
	Value	100 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)

	Method	DIN 38412-09
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Value type	EC20
	Value	> 1,000 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, industrial
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
2,2'-iminodiethylamine 111-40-0	Value type	LC50
	Value	430 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Poecilia reticulata
	Method	EU Method C.1 (Acute Toxicity for Fish)
	Value type	NOEC
	Value	> 10 mg/l
	Acute Toxicity Study	Fish
	Exposure time	28 d
	Species	Gasterosteus aculeatus
	Method	OECD Guideline 210 (fish early lite stage toxicity test)
2,2'-iminodiethylamine 111-40-0	Value type	EC50
	Value	64.6 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EU Method C.2 (Acute Toxicity for Daphnia)
2,2'-iminodiethylamine 111-40-0	Value type	EC50
	Value	1,164 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	10 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,2'-iminodiethylamine 111-40-0	Value type	NOEC
	Value	6 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	anaerobic bacteria
	Method	not specified
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Value type	LC50
	Value	153 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)])
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Value type	EC50
	Value	> 100 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Value type	EC50
	Value	46.7 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	6.44 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)

2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	Value type	EC0
	Value	27 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	16 h
	Species	<i>Pseudomonas putida</i>
	Method	DIN 38412, part 8 (<i>Pseudomonas</i> Zellvermehrungshemm-Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Value type	LC50
	Value	330 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	<i>Pimephales promelas</i>
	Method	other guideline:
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Value type	EC50
	Value	31 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	<i>Daphnia magna</i>
	Method	OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Value type	EC50
	Value	20 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	<i>Selenastrum capricornutum</i> (new name: <i>Pseudokirchneriella subcapitata</i>)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value	1.34 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	<i>Pseudokirchneriella subcapitata</i> (reported as <i>Raphidocelis subcapitata</i>)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-piperazin-1-ylethylamine 140-31-8	Value type	LC50
	Value	> 100 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	<i>Salmo gairdneri</i> (new name: <i>Oncorhynchus mykiss</i>)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-piperazin-1-ylethylamine 140-31-8	Value type	EC50
	Value	32 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	<i>Daphnia magna</i>
	Method	OECD Guideline 202 (<i>Daphnia</i> sp. Acute Immobilisation Test)
2-piperazin-1-ylethylamine 140-31-8	Value type	NOEC
	Value	31 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	<i>Selenastrum capricornutum</i> (new name: <i>Pseudokirchneriella subcapitata</i>)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC50
	Value	495 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	<i>Selenastrum capricornutum</i> (new name: <i>Pseudokirchneriella subcapitata</i>)
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-piperazin-1-ylethylamine 140-31-8	Value type	EC10
	Value	100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	
	Method	not specified
4,4'-diaminodiphenylmethane 101-77-9	Value type	LC50
	Value	20.6 mg/l
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	<i>Oryzias latipes</i>
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
4,4'-diaminodiphenylmethane 101-77-9	Value type	EC50
	Value	0.35 mg/l
	Acute Toxicity Study	Daphnia
	Exposure time	48 h

4,4'-diaminodiphenylmethane 101-77-9	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
	Value type	EC50
	Value	14.4 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	9.3 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Pseudokirchneriella subcapitata
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
4,4'-diaminodiphenylmethane 101-77-9	Value type	EC 50
	Value	> 100 mg/l
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	Result	not readily biodegradable.
	Route of application	no data
	Degradability	0 - 60 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
4,4'- Methylenebis(cyclohexylamine) 1761-71-3	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2,2'-iminodiethylamine 111-40-0	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	83 %
	Method	EU Method C.9 (Biodegradation: Zahn-Wellens Test)
	Result	readily biodegradable
	Route of application	aerobic
	Degradability	87 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2,4,6- tris(dimethylaminomethyl)pheno l 90-72-2	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	4 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
	Result	not inherently biodegradable
	Route of application	aerobic
	Degradability	20 %
	Method	OECD Guideline 302 A (Inherent Biodegradability: Modified SCAS Test)
2-piperazin-1-ylethylamine 140-31-8	Result	under test conditions no biodegradation observed
	Route of application	aerobic
	Degradability	0 %
	Method	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
4,4'-diaminodiphenylmethane 101-77-9	Result	inherently biodegradable
	Route of application	aerobic
	Degradability	97 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
	Result	not readily biodegradable.
	Route of application	aerobic
	Degradability	46 %
	Method	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

Bioaccumulative potential / Mobility in soil:

Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine 68082-29-1	LogPow	10.34
	Temperature	
	Method	QSAR (Quantitative Structure Activity Relationship)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	Bioconcentration factor (BCF)	< 60
	Exposure time	60 d
	Species	Cyprinus carpio
	Temperature	24 °C
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
4,4'-Methylenebis(cyclohexylamine) 1761-71-3	LogPow	2.2
	Temperature	23 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2,2'-iminodiethylamine 111-40-0	Bioconcentration factor (BCF)	> 0.3 - < 6.3
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2,2'-iminodiethylamine 111-40-0	LogPow	-1.58
	Temperature	20 °C
	Method	QSAR (Quantitative Structure Activity Relationship)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	LogPow	-0.66
	Temperature	21.5 °C
	Method	EPA OPPTS 830.7550 (Partition Coefficient, n-octanol / H2O, Shake Flask Method)
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	LogPow	-2.65
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
2-piperazin-1-ylethylamine 140-31-8	LogPow	-1.48
	Temperature	
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
4,4'-diaminodiphenylmethane 101-77-9	Bioconcentration factor (BCF)	15
	Exposure time	42 d
	Species	Cyprinus carpio
	Temperature	
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
4,4'-diaminodiphenylmethane 101-77-9	LogPow	1.46
	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

Section 13. Disposal considerations

Product

Method of disposal: Dispose of in accordance with local and national regulations.

Packaging

Disposal of uncleaned packages: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Section 14. Transport information

Road transport ADR:

Class:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine)

Railroad transport RID:

Class:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine)

Inland water transport ADN:

Class:	8
Packing group:	II
Classification code:	C7
Hazard ident. number:	80
UN no.:	2735
Label:	8
Technical name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine)

Marine transport IMDG:

Class:	8
Packing group:	II
UN no.:	2735
Label:	8
EmS:	F-A ,S-B
Seawater pollutant:	-
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (4,4-methylenebis-cyclohexylamine)

Air transport IATA:

Class:	8
Packing group:	II
Packaging instructions (passenger):	851
Packaging instructions (cargo):	855
UN no.:	2735
Label:	8
Proper shipping name:	Amines, liquid, corrosive, n.o.s. (4,4-methylenebis-cyclohexylamine)

Section 15. Regulatory information

Regulatory Information: This Safety Data Sheet has been generated based on

LAW ON CHEMICALS No. 06/2007/QH12, issued on November 21, 2007;

Decree No. 113/2017/ND-CP SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on November 25, 2017;

Circular No 32/2017/TT-BCT SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS AND THE GOVERNMENT'S DECREE NO. 113/2017/ND-CP DATED OCTOBER 09, 2017 SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on December 28, 2017;

Decree No. 82/2022/ND-CP AMENDMENTS TO SOME ACTICLES OF GOVERNMENT'S DECREE NO.113/2017/ND-CP DATED OCTOBER 09, 2017 SPECIFYING AND PROVIDING GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on December 22, 2022;

Circular No. 17/2022/TT-BCT AMENDMENTS TO SOME ACTICLES OF CIRCULAR NO. 32/2017/TT-BCT DATED DECEMBER 28, 2017 OF THE MINISTER OF INDUSTRY AND TRADE ON ELABORATION AND PROVISION OF GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS AND THE GOVERNMENT'S DECREE NO. 113/2017/ND-CP DATED OCTOBER 09, 2017 ON ELABORATION AND PROVISION OF GUIDELINES FOR IMPLEMENTATION OF CERTAIN ARTICLES OF THE LAW ON CHEMICALS, issued on December 22, 2022.

Global inventory status:

Regulatory list	Notification
TCSI	yes
TSCA	yes
DSL	yes
ENCS (JP)	yes
ISHL (JP)	yes
PICCS (PH)	yes
IECSC	yes

Section 16. Other information

Disclaimer:

This Safety Data Sheet has been generated based on LAW ON CHEMICALS No. 06/2007/QH12; Decree No. 113/2017/ND-CP; Circular No 32/2017/TT-BCT; Decree No. 82/2022/ND-CP and Circular No. 17/2022/TT-BCT.

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