CHOL2, 2600T, cobas c pack green

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SECTION 1: IDENTIFICATION

Product name : CHOL2, 2600T, cobas c pack green

Mat.-No./ Genisys-No. : 08057443214

Manufacturer or supplier's details

Company : Roche Diagnostics Deutschland GmbH

Address : Sandhoferstrasse 116
68305 Mannheim
Deutschland

Telephone : +496217590

Emergency telephone number:

Im Notfall : Werkschutzzentrale Roche Diagnostics GmbH +49(0)621-759-2203

Giftnotruf: : Mainz +49(0)6131-19240

E-mail address : info.dia-sds@roche.com

Telefax : +496217592890

Recommended use of the chemical and restrictions on use

Recommended use : Laboratory chemicals
Refer to product literature for further details.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage/eye irritation : Category 2A

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements :

Prevention:

P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-	9002-92-0	>= 1 -< 3
Phenol	108-95-2	< 1
Lipoprotein Lipase	9004-02-8	< 10
Cholesterol-Oxidase	9028-76-6	< 10
Peroxidase (POD)	9003-99-0	< 1

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Move to fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Rinse mouth with water.

Most important symptoms : Causes serious eye irritation.

and effects, both acute and delayed		Causes serious eye irritation.
Notes to physician	:	The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	No information available.
Hazardous combustion products	:	Carbon monoxide Carbon dioxide (CO2)
Specific extinguishing methods	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Dispose of rinse water in accordance with local and national regulations.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Phenol	108-95-2	TWA	1 ppm 4 mg/m3	AU OEL
	Further information: Skin absorption			
		TWA	5 ppm	ACGIH
Lipoprotein Lipase	9004-02-8	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)
Cholesterol-Oxidase	9028-76-6	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)
Peroxidase (POD)	9003-99-0	IOEL	0.00006 mg/m3	Roche Industrial Hygiene Committee (RIHC)

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Phenol	108-95-2	Phenol	Urine	End of shift (As soon as possible after	250 mg/g creatinine	ACGIH BEI

				exposure ceases)		

Engineering measures : No data available

Personal protective equipment

Hand protection

In case of contact through splashing:

Material	:	Nitrile rubber
Break through time	:	> 30 min
Glove thickness	:	> 0.11 mm

In case of full contact:

Material	:	butyl-rubber
Break through time	:	> 480 min
Glove thickness	:	> 0.4 mm

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : pink

Odour : No data available

Odour Threshold	:	No data available
pH	:	6.8 Concentration: 100 %
Melting point/ range	:	-1 °C
Boiling point/boiling range	:	95 - 105 °C
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable., Does not sustain combustion.
Flammability (liquids)	:	Does not sustain combustion.
Self-ignition	:	No data available
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	:	1.033 g/cm3
Solubility(ies)		
Water solubility	:	completely miscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available

Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available
Incompatible materials	:	None.
Hazardous decomposition products	:	Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified due to lack of data.
Not classified due to lack of data.

Product:

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Acute oral toxicity	:	LD50 Oral (Rat): 1,000 mg/kg Method: OECD Test Guideline 423 GLP: yes
Acute dermal toxicity	:	LD50 Dermal (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes

Phenol:

Acute oral toxicity	:	LD50 Oral (Rat, male and female): 340 mg/kg Method: OECD Test Guideline 401 Assessment: The component/mixture is toxic after single ingestion.
Acute inhalation toxicity	:	LC0 (Rat, female): 0.9 mg/l Exposure time: 8 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is toxic after short term inhalation.
Acute dermal toxicity	:	LD50 Dermal (Rat, female): 660 mg/kg Method: OECD Test Guideline 402 GLP: No information available.

Lipoprotein Lipase:

Acute oral toxicity	:	Acute toxicity estimate: > 5,001 mg/kg Method: Expert judgement
Acute inhalation toxicity	:	Acute toxicity estimate: > 30 mg/l Test atmosphere: dust/mist Method: Expert judgement
Acute dermal toxicity	:	Acute toxicity estimate: > 5,001 mg/kg Method: Expert judgement

Cholesterol-Oxidase:

Acute oral toxicity	:	Acute toxicity estimate: > 5,001 mg/kg Method: Expert judgement
Acute inhalation toxicity	:	Acute toxicity estimate: > 30 mg/l Test atmosphere: dust/mist Method: Expert judgement
Acute dermal toxicity	:	Acute toxicity estimate: > 5,001 mg/kg Method: Expert judgement

Skin corrosion/irritation

Not classified due to lack of data.

Not classified due to lack of data.

Product:

Remarks : May cause skin irritation in susceptible persons.

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes

Phenol:

Species	:	Rabbit
Result	:	Causes burns.
GLP	:	No information available.

Serious eye damage/eye irritation

Causes serious eye irritation.
Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
GLP	:	yes

Phenol:

Species	:	Rabbit
Result	:	Risk of serious damage to eyes.
Method	:	OECD Test Guideline 405
GLP	:	No information available.

Peroxidase (POD):

Remarks : Product dust may be irritating to eyes, skin and respiratory system.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Components

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Test Type	:	Draize Test
Species	:	Guinea pig
Result	:	Does not cause skin sensitisation.
GLP	:	no

Peroxidase (POD):

Assessment	:	May cause sensitisation by skin contact.
Assessment	:	May cause sensitisation by inhalation.

Chronic toxicity

Germ cell mutagenicity

Not classified due to lack of data.
Not classified due to lack of data.

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells Metabolic activation: with and without metabolic activation Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative
Genotoxicity in vivo	:	Test Type: in vivo assay Species: Mouse (male) Strain: B6C3F1 Cell type: Bone marrow Application Route: Intraperitoneal injection

Exposure time: 72 h
Dose: 125 mg/kg
Result: negative

Phenol:

Genotoxicity in vitro : Test Type: Micronucleus test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 487
Result: positive

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: Metabolic activation
Method: OECD Test Guideline 473
Result: positive

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Exposure time: 24 and 48 h
Dose: 0, 30, 100, 300 mg/kg
Method: OECD Test Guideline 474
Result: positive
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests showed mutagenic effects

Carcinogenicity

Not classified due to lack of data.
Not classified due to lack of data.

Components:

Phenol:

Remarks : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Lipoprotein Lipase:

Remarks : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Cholesterol-Oxidase:

Remarks : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Not classified due to lack of data.
Not classified due to lack of data.

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Effects on foetal development : Test Type: Two-generation study
Species: Rat, female
Application Route: Oral
Developmental Toxicity: NOAEL: 50 mg/kg bw/day

STOT - single exposure

Not classified due to lack of data.
Not classified due to lack of data.

Components:

Lipoprotein Lipase:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Cholesterol-Oxidase:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Not classified due to lack of data.
Not classified due to lack of data.

Components:

Phenol:

Target Organs : Kidney, Liver, Skin, Nervous system
Assessment : May cause damage to organs through prolonged or repeated exposure.

Lipoprotein Lipase:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Cholesterol-Oxidase:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Species	:	Rat, male
NOAEL	:	mg/kg bw/day, 390
Application Route	:	Oral
Exposure time	:	22 d

Aspiration toxicity

Not classified due to lack of data.
Not classified due to lack of data.

Components:

Lipoprotein Lipase:

No data available

Cholesterol-Oxidase:

No data available

Further information

Components:

Phenol:

Remarks : Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Toxicity to fish	:	LC50 (Salmo salar (Atlantic salmon)): 1.5 mg/l End point: mortality Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 6.46 mg/l Exposure time: 48 h
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.144 mg/l Exposure time: 21 d Method: QSAR
Toxicity to microorganisms	:	(Photobacterium phosphoreum): 2.5 mg/l Test Type: EC50

Ecotoxicology Assessment

Acute aquatic toxicity	:	Toxic to aquatic life. Remarks: Expert judgement
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects. Remarks: Expert judgement

Phenol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.9 mg/l End point: mortality Exposure time: 96 h Test Type: flow-through test Analytical monitoring: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 3.1 mg/l End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): 61.1 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Analytical monitoring: no Remarks: nominal concentration
Toxicity to fish (Chronic toxicity)	:	NOEC (Fish): 0.077 mg/l Exposure time: 60 d Test Type: semi-static test Remarks: nominal concentration
Toxicity to daphnia and other	:	NOEC (Daphnia magna (Water flea)): 0.16 mg/l

aquatic invertebrates (Chronic toxicity)		Exposure time: 16 d Test Type: semi-static test Remarks: nominal concentration
Toxicity to microorganisms	:	EC50 (Bacteria): 21 mg/l Exposure time: 24 h Test Type: static test GLP: no

Lipoprotein Lipase:

Toxicity to fish	:	LC50 : > 100 mg/l Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available

Cholesterol-Oxidase:

Toxicity to fish	:	LC50 : > 100 mg/l Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available

Peroxidase (POD):

Ecotoxicology Assessment

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
Chronic aquatic toxicity	:	This product has no known ecotoxicological effects.
Toxicity Data on Soil	:	Not expected to adsorb on soil.
Other organisms relevant to the environment	:	No data available

Persistence and degradability

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Biodegradability	:	aerobic Inoculum: activated sludge Concentration: 30 mg/l Result: Readily biodegradable. Biodegradation: 74 % Exposure time: 28 d Method: OECD Test Guideline 301C

Phenol:

Biodegradability	:	aerobic Inoculum: activated sludge, non-adapted Concentration: 100 mg/l Result: Readily biodegradable. Biodegradation: 85 % Exposure time: 14 d Method: OECD Test Guideline 301C GLP: No information available.
Biochemical Oxygen Demand (BOD)	:	1,680 mg/g Incubation time: 5 d
Chemical Oxygen Demand (COD)	:	2,300 mg/g

Bioaccumulative potential

Components:

Poly(oxy-1,2-ethanediyl), α-dodecyl-ω-hydroxy-:

Partition coefficient: n-octanol/water	:	Remarks: No data available

Phenol:

Bioaccumulation	:	Species: Danio rerio (zebra fish) Bioconcentration factor (BCF): 17.5 Exposure time: 5 h Temperature: 25 °C Concentration: 2 mg/l Method: OECD Test Guideline 305
Partition coefficient: n-octanol/water	:	log Pow: 1.46 (30 °C)

Lipoprotein Lipase:

Partition coefficient: n-	:	Remarks: No data available

octanol/water

Cholesterol-Oxidase:

Partition coefficient: n-octanol/water : Remarks: No data available

Peroxidase (POD):

Partition coefficient: n-octanol/water : Remarks: No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Can be disposed as waste water, when in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

IATA-DGR

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable

Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

IMDG-Code

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

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

Not applicable

National Regulations

ADG

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Hazchem Code	:	Not applicable

Special precautions for user

Remarks	:	Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

SECTION 15. REGULATORY INFORMATION

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

Therapeutic Goods (Poisons Standard) Instrument	:	Schedule 6 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)
Prohibition/Licensing Requirements	:	There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

The components of this product are reported in the following inventories:

AIIC	:	Not in compliance with the inventory

DSL	:	This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL. Sodium hydrogen piperazine-1,4-diethanesulphonate Magnesium dihydrogen di-L-aspartate Peroxidase (POD)
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
TECI	:	Not in compliance with the inventory

SECTION 16: ANY OTHER RELEVANT INFORMATION

Revision Date	:	02.10.2024
Date format	:	dd.mm.yyyy

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
AU OEL	:	Australia. Workplace Exposure Standards for Airborne Contaminants.
ACGIH / TWA	:	8-hour, time-weighted average
AU OEL / TWA	:	Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and

Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOErC - No Observed Effect Concentration based on growth rate; NOEyC - No Observed Effect Concentration based on yield; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information 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.

AU / EN / 2304