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ECTION 1. IDENTIFICATION		
Product name	: RNase A solution	
Manufacturer or supplier's	details	
Company	: QIAGEN GmbH QIAGEN Str. 1 D-40724 Hilden	
Telephone	: +49-02103-29-0	
Responsible Department	: QIAGEN Inc. Toronto 181 Bay Street, Suite 4400 Toronto, Ontario M5J 2T3 Tel: 800-572-9613 http://support.qiagen.com	
E-mail addressResponsible/issuing person	: cpc@qiagen.com	
Emergency telephone number	: CHEMTREC USA & Canada 1-800-424-9300 CHEMTREC: 1-800-424-9300	
Recommended use of the	chemical and restrictions on use	
Recommended use	: Laboratory chemicals	
ECTION 2. HAZARDS IDENTIF	FICATION	
GHS Classification		
Respiratory sensitisation	: Category 1	
Skin sensitisation	: Category 1	
GHS Label element		

GHS Label element

Hazard pictograms



Signal word: DangerHazard statements: H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing
difficulties if inhaled.

Precautionary statements

: **Prevention:** P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.



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	P280 Wear protective gloves/ prote face protection. P284 Wear respiratory protection. Response:	ctive clothing/ eye protection/
	P304 + P340 IF INHALED: Remove keep comfortable for breathing. P342 + P311 If experiencing respira	
	POISON CENTER or doctor/ physic	

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Substance name : RNase A solution

Hazardous components

Chemical Name	CAS-No.	Concentration (% w/w)
Nuclease, ribo-	9001-99-4	>= 1 - < 10
mixture of: 5-chloro-2-methyl-4-isothiazolin-3- one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	55965-84-9	>= 0 - < 0.1

SECTION 4. FIRST AID MEASURES

General advice	Move out of dangerous area. Show this safety data sheet to the doctor in attendance.	
lf inhaled	If unconscious place in recovery position and seek media advice. Keep respiratory tract clear. If symptoms persist, call a physician.	cal
In case of skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.	Э
In case of eye contact	Remove contact lenses. Protect unharmed eye. Rinse thoroughly with plenty of water for at least 15 minu and consult a physician.	ites
If swallowed	If accidentally swallowed obtain immediate medical atten Rinse mouth with water. Never give anything by mouth to an unconscious person.	
Most important symptoms and effects, both acute and delayed	No information available.	
Notes to physician	No information available.	



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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.	
Specific hazards during firefighting	: Exposure to decomposition products may be a hazard to health.)
Hazardous combustion products	: Carbon oxides Nitrogen oxides (NOx)	
Specific extinguishing methods	: In the event of fire and/or explosion do not breathe fume	s.
Special protective equipment for firefighters	: Wear self-contained breathing apparatus for firefighting incressary.	if

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
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	:	Avoid formation of aerosol. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipme		
Respiratory protection	In the case of vapour formation use a respirator with an approved filter.	
Hand protection Material	Protective gloves	
Material Break through time Glove thickness	Nitrile rubber 480 mins. 0.35 mm	
Remarks	The choice of an appropriate glove does not only depend its material but also on other quality features and is differ from one producer to the other. Take note of the informar given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. If us solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier the CE approved gloves.	rent tion c
Eye protection	Tightly fitting safety goggles Do not wear contact lenses.	
Skin and body protection	Choose body protection according to the amount and concentration of the dangerous substance at the work pl Footwear protecting against chemicals	ace.
Hygiene measures	Keep away from food and drink. Wash hands before breaks and at the end of workday. Ensure adequate ventilation, especially in confined areas Keep working clothes separately. Avoid contact with the skin and the eyes. When using do not eat, drink or smoke.	3.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	No data available
Odour	:	characteristic
Odour Threshold	:	No data available



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рН	: No data available	
Melting point/range	: No data available	
Boiling point/boiling range	: No data available	
Flash point	: Not applicable	
Evaporation rate	: No data available	
Burning rate	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: No data available	
Density	: No data available	
Solubility(ies) Water solubility	: No data available	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: not determined	
Decomposition temperature	: No data available	
Viscosity Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions.

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	Keep away from oxidizing agents, an products.	d acidic or alkaline
Conditions to avoid	: No data available	
Incompatible materials	: No data available	
Hazardous decomposition products	: No decomposition if stored and appli-	ed as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:		
Acute oral toxicity	:	No data available
Acute inhalation toxicity	:	No data available
Acute dermal toxicity	:	No data available
		Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1): Acute oral toxicity : LD50 Oral (Rat): 862 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 2,800 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks:

May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: The product causes irritation of eyes, skin and mucous membranes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Product:

Remarks: Causes sensitisation.May cause sensitisation by inhalation and skin contact.



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Germ cell mutagenicity		
Not classified based on avai	lable information.	
Carcinogenicity		
Not classified based on avai	lable information.	
Reproductive toxicity		
Not classified based on avai	lable information.	
STOT - single exposure		
Not classified based on avai	lable information.	
STOT - repeated exposure		
Not classified based on avai	lable information.	
Aspiration toxicity		
Not classified based on avai	lable information.	
Further information		
No data available		
SECTION 12. ECOLOGICAL IN	EORMATION	
SECTION 12. ECOLOGICAL IN	FORMATION	
Ecotoxicity		
Product:		

Toxicity to fish	:
-	No data available
Toxicity to algae	:
	No data available
Toxicity to bacteria	: No data available

Components:

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2Hisothiazol-3-one [EC no. 220-239-6] (3:1): M-Factor (Acute aquatic : 100 toxicity) M-Factor (Chronic aquatic : 100 toxicity) Persistence and degradability No data available

Bioaccumulative potential

Product:

Bioaccumulation : No data available

Mobility in soil

No data available

RNase A	solution	



Other adverse effects	
Product:	
Additional ecological : No data available information	
ECTION 13. DISPOSAL CONSIDERATIONS	

Waste from residues	: Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	: Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

UNRTDG

Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No data available

National Regulations

TDG Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;

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EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; 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; NOM - Official Mexican Norm; NTP - National Toxicology Program; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; 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; TDG - Transportation of Dangerous Goods; 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; DSL - Domestic Substances List (Canada); KECI Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory: CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

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