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- **1 Identification**
- · Product identifier
- · Trade name: Chloroneb
- · Part number: PST-1330, PST-1330-10MG
- · CAS Number:
- 2675-77-6
- EC number: 220-222-3
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Agilent Technologies, Inc. 5301 Stevens Creek Blvd. Santa Clara, CA 95051 USA
- · Information department:
- Telephone: 800-227-9770 e-mail: pdl-msds\_author@agilent.com • Emergency telephone number: CHEMTREC®: 1-800-424-9300

### 2 Hazard(s) identification

· Classification of the substance or mixture

The substance is not classified, according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Classification system:
- NFPA ratings (scale 0 4)



· HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity

- · Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

## **3** Composition/information on ingredients

= 0

- · Chemical characterization: Substances
- · CAS No. Description
- 2675-77-6 chloroneb

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· Identification number(s)

· EC number: 220-222-3

### **4 First-aid measures**

- · Description of first aid measures
- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### **6** Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.
- · Protective Action Criteria for Chemicals
- · **PAC-1**:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Specific end use(s) No further relevant information available.

#### **8 Exposure controls/personal protection**

- Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:
- The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
- At this time, the remaining constituent has no known exposure limits.
- At this time, the other constituents have no known exposure limits.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

• Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

- · Material of gloves
- For normal use: nitrile rubber, 11-13 mil thickness
- For direct contact with the chemical: butyl rubber, 12-15 mil thickness

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- · Penetration time of glove material
- For normal use: nitrile rubber: 1 hour
- For direct contact with the chemical: butyl rubber: >4 hours
- Eye protection: Not required.



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Information on basic physical and	ahamiaal nyanaytias
General Information	thennear properties
Appearance:	
Form:	Solid
Color:	Not determined.
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
Flash point:	>100 °C (>212 °F)
Flammability (solid, gaseous):	Product is not flammable.
Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapor pressure:	Not applicable.
Density at 20 °C (68 °F):	1.66 g/cm <sup>3</sup> (13.8527 lbs/gal)
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
VOC content:	
	0.0 g/l / 0.00 lb/gal
Solids content:	100.0 %
Other information	No further relevant information available.

# **10 Stability and reactivity**

• Reactivity No further relevant information available.

· Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.

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· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

### **11** Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

#### 2675-77-6 chloroneb

LD50 11,000 mg/kg (rat) Oral

Dermal LD50 >5,000 mg/kg (rabbit)

#### Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

· Carcinogenic categories

#### · IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

#### · OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

### **12 Ecological information**

Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

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## **13 Disposal considerations**

· Waste treatment methods

· Recommendation: Smaller quantities can be disposed of with household waste.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN3077
	0113077
UN proper shipping name DOT	Environmentally hazardous substance, solid, n.o.s. (delta-BHC (delta-HCH))
IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S. (delta-BHC (delta-HCH))
Transport hazard class(es)	
DOT, IMDG	
Class Label	9 Miscellaneous dangerous substances and articles
IATA	,
	9 Miscellaneous dangerous substances and articles
Label	9
Packing group DOT, IMDG, IATA	III
Environmental hazards: Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler):	90
EMS Number:	F-A,S-F
Stowage Category Stowage Code	A SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
Transport in bulk according to Annex	II of Not applicable.

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On passenger aircraft/rail: No limit
On cargo aircraft only: No limit
1 lbs, 0.454 kg
5 kg
Code: E1
Maximum net quantity per inner packaging: 30 g
Maximum net quantity per outer packaging: 1000 g
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTA-BHC (DELTA-HCH)), 9, III

# **15 Regulatory information**

 $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara

· Section 355 (extremely hazardous substances):		
Substance is not listed.		
· Section 313 (Specific toxic chemical listings):		
Substance is not listed.		
· TSCA (Toxic Substances Control Act):		
Substance is not listed.		
· TSCA new (21st Century Act): (Substances not listed)		
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· Proposition 65		
· Chemicals known to cause cancer:		
Substance is not listed.		
· Chemicals known to cause reproductive toxicity for females:		
Substance is not listed.		
· Chemicals known to cause reproductive toxicity for males:		
Substance is not listed.		
· Chemicals known to cause developmental toxicity:		
Substance is not listed.		
· Carcinogenic categories		
· EPA (Environmental Protection Agency)		
Substance is not listed.		
· TLV (Threshold Limit Value established by ACGIH)		
Substance is not listed.		
·NIOSH-Ca (National Institute for Occupational Safety and Health)		
Substance is not listed.		
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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- · Department issuing SDS: Document Control / Regulatory
- · Contact: regulatory@ultrasci.com
- · Date of preparation / last revision 03/24/2019 / 1
- · Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit • \* Data compared to the previous version altered.



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