

Trade name: PRESEPT™ Disinfectant Tablets & Granules

Product no.: MSDS-0011007

Current version : 4.0.1, issued: 26.01.2015

Replaced version: 4.0.0, issued: 15.12.2014

Region: GB

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

PRESEPT™ Disinfectant Tablets & Granules (Product packed in tubs)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture

Product for drinking water disinfection and surface disinfection

1.3 Details of the supplier of the safety data sheet

Address

Advanced Sterilization Products
a division of Johnson & Johnson Medical Ltd.
Wokingham, Berkshire, UK

Wokingham, Berkshire, UK RG40 3EW

Telephone no. +44 (0)1344 871081

Fax no. +44 (0)1344 871171

Information provided by / telephone

Technical Queries: +44 (0)1344 871081; UK Freephone: 0800 864060

Advice on Safety Data Sheet

contact@medgb.jnj.com

1.4 Emergency telephone number

01865 407333)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Eye irritation, Category 2; H 319

Specific Target Organ Toxicity (single exposure), Category 3; H 335

Hazardous to the aquatic environment, Chronic Category 1; H 410

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS 09



GHS 07

Signal word

Danger

Hazard statements

EUH031

H 319

H 335

H 410

Contact with acids liberates toxic gas.

Causes serious eye irritation

May cause respiratory irritation.

Very toxic to aquatic life with long lasting effects

Precautionary statements

P 261

P 273

P 280

P305+P351+P338

Avoid breathing dust

Avoid release to the environment.

Wear protective gloves/eye protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P 312

P 337 + P313

Call a POISON CENTER or doctor if you feel unwell

If eye irritation persists: Get medical attention

2.3 Other hazards

No data available.

Trade name: PRESEPT™ Disinfectant Tablets & Granules

Product no.: MSDS-0011007

Current version : 4.0.1, issued: 26.01.2015

Replaced version: 4.0.0, issued: 15.12.2014

Region: GB






SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Chemical characterization**

Aqueous preparation of the following substances with non-hazardous admixtures.

Hazardous ingredients

No	Substance name CAS / EC / Index / REACH no	Classification 67/548/EEC	Concentration	%-b.w.
1	Sodium dichloroisocyanurate 2893-78-9 220-767-7 613-030-00-X-	   Oxidising solids, Category 2; H272 Acute toxicity, Category 4, oral; H302 Eye irritation, Category 2; H319 Specific Target Organ Toxicity (single exposure), Category 3; H335 Hazardous to the aquatic environment, Acute Category 1; H400 Hazardous to the aquatic environment, Chronic Category 1; H410	30-65	%-b.w.
2	Adipic acid 124-04-9 204-673-3 607-144-00-9	 Eye irritation, Category 2; H319	10 - 35	%-b.w.
3	Sodium Carbonate 497-19-8 207-838-8 011-005-00-2 01-2119485498-19-XXXX	 Eye irritation, Category 2; H319	2 - 12	%-b.w.

Full text for all notes: pls. see section 16

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In case of accident or if you feel unwell, seek medical advice immediately. Remove contaminated, soaked clothing immediately and dispose of safely

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water. Remove contaminated clothing immediately and dispose of safely. Seek medical attention.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet

Unsuitable extinguishing media

Carbon dioxide

Trade name: PRESEPT™ Disinfectant Tablets & Granules

Product no.: MSDS-0011007

Current version : 4.0.1, issued: 26.01.2015

Replaced version: 4.0.0, issued: 15.12.2014

Region: GB

5.2 Special hazards arising from the substance or mixture

If heated by outside source to temperatures above 240°C, this product will undergo decomposition with the evolution of noxious gases but no visible flame. Wet material may generate nitrogen trichloride, an explosion hazard.

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); phosgene; chlorine compounds

5.3 Advice for firefighters

Product itself does not burn. Adapt extinguisher and fire-fighting measures to fire in the environment. Cool endangered containers with water spray jet. Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Wear protective clothing

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

Observe protective measures in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Avoid the formation and deposition of dust. Provide good ventilation of working area (local exhaust ventilation, if necessary). Avoid contact with skin and eyes.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale dust.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Store in original container and in a cool dry area where temperatures do not exceed 25 ° C. Keep container tightly closed and store away from incompatible materials (refer to section 10 for list of incompatible materials).

Requirements for storage rooms and vessels

Store product in closed containers.

Advice on storage assembly

Contact with acid liberates toxic gases. Do not allow water to get into the container. Keep out of reach of children. Store locked up Do not store together with: Acids; Alkalis; Reducing agents

7.3 Specific end use(s)

Mix only with water. Use clean dry utensils. Do not mix this product with remnants of any other products. Such uses may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion. Vapour space in a closed container may contain a slight amount of chlorine gas and other chlorine containing compounds from decomposition of the product. Exposure to chlorine gas may cause burning of the eyes, burning of the nose and mouth and irritation of the linings of the respiratory tract with coughing, a choking sensation, substernal pain, vomiting, nausea, headache, dizziness and fainting.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	No parameters available for monitoring		
	List of approved workplace exposure limits (WELs) / EH40		
	STEL	mg/m ³	ml/m ³
	TWA	mg/m ³	ml/m ³

Trade name: PRESEPT™ Disinfectant Tablets & Granules**Product no.:** MSDS-0011007**Current version :** 4.0.1, issued: 26.01.2015**Replaced version:** 4.0.0, issued: 15.12.2014**Region:** GB**Other information**

Please see your local regulations.

Substance name	CAS no.	EC no.
Sodium dichloroisocyanurate	2893-78-9	220-767-7
DNEL Workers dermal Long-Term Exposure	2.3	2.3 mg/kg bw/day
DNEL Workers inhalation Long-Term Exposure	8.11	mg/m ³

8.2 Exposure controls**Appropriate engineering controls**

Use only in well-ventilated areas. Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. An approved respirator with EN140 (chlorine) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. A respiratory protection program that meets applicable regulatory requirements must be followed whenever workplace conditions warrant use of a respirator.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	Butyl rubber, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride (PVC), Tyvek
Material thickness	mm
Breakthrough time	appr. min.
Appropriate Material	In case of short-term contact / splash protection:
Appropriate Material	nitrile

Other

Wear protective clothing to minimize skin contact. When potential for contact with dry material exists, wear disposable coveralls suitable for dust exposure, such as Tyvek®. Contaminated clothing should be removed and laundered before reuse.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Form/Colour**

Tablets; granules
White /off white

Odour

Slight chlorine odour.

Odour threshold

No data available

pH value

Value 5,0 - 6,5 °C
Reference temperature

Boiling point / boiling range

Value Not applicable (solid) °C

Melting point / melting range

Value No data available °C

Decomposition point / decomposition range

225 - 250°C

Flash point

Not applicable (solid)

Trade name: PRESEPT™ Disinfectant Tablets & Granules**Product no.:** MSDS-0011007**Current version :** 4.0.1, issued: 26.01.2015**Replaced version:** 4.0.0, issued: 15.12.2014**Region:** GB**Auto-ignition temperature**

No data available

Oxidising properties

No data available

Explosive properties

No data available

Flammability (solid, gas)

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

Not applicable (not volatile)

Vapour density

Not applicable (not volatile)

Evaporation rate

No data available

Relative density

No data available

Density

Value	No data available	g/ml
Reference temperature		°C

Solubility in water

Reference temperature		°C
-----------------------	--	----

Remarks	Completely Soluble in Water
---------	-----------------------------

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

Log Kow = 0

Viscosity

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Hazardous Polymerisation will not occur.

10.4 Conditions to avoid

The active ingredient in this preparation is a strong oxidising agent. The preparation of concentrated solutions or slurries is not recommended. Avoid contact with water on concentrated material in the container. Do not get water inside packaging.

10.5 Incompatible materials

Strong acids and/or alkalines. Reducing agents. Combustible material. Also avoid contact with easily oxidisable organic material: ammonia, urea or similar nitrogen containing compounds; inorganic reducing compounds; floor sweeping compounds; calcium hypochlorite and alkalis.

10.6 Hazardous decomposition products

Chlorine, Nitrogen trichloride, Cyanogen chloride, Oxides of carbon, Phosgene.

Trade name: PRESEPT™ Disinfectant Tablets & Granules

Product no.: MSDS-0011007

Current version : 4.0.1, issued: 26.01.2015

Replaced version: 4.0.0, issued: 15.12.2014

Region: GB

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute oral toxicity**

LD50	>	2000	mg/kg
Species	rat		

The information below relates to Sodium Dichloroisocyanurate in its pure form.

Acute oral toxicity

LD50	=	1823	mg/kg
Species	rat		

Acute dermal toxicity

LD50	>	5000	mg/kg
Species	rabbit		
No data available			

Acute inhalational toxicity

LC50	>	0,27	<	1,17	mg/l
Species					

Skin corrosion/irritation

No data available

Serious eye damage/irritation

Irritant

Respiratory or skin sensitisation

Irritant

Germ cell mutagenicity

Not mutagenic in 5 salmonella strains and 1 E. coli strain.

Reproduction toxicity

There are no known or recorded effects on reproductive function or foetal development

Carcinogenicity

Not classified by NTP, IARC or OSHA

STOT-single exposure

No data available

STOT-repeated exposure

No data available

Aspiration hazard

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available

SECTION 12: Ecological information**12.1 Toxicity**

The information below relates to Sodium Dichloroisocyanurate in its pure form.

Fish toxicity

LC50	0.25-1.0	mg/l
Duration of exposure	96	h
Species	Bluegill Sunfish	
LC50	0.13-0.36	mg/l
Duration of exposure	96	h
Species	Rainbow Trout	
LC50	1.21	mg/l
Duration of exposure	96	h
Species	Inland Silverside	

Daphnia toxicity

EC50	0.196	mg/l
Duration of exposure	48	h
Species	Water flea	

Trade name: PRESEPT™ Disinfectant Tablets & Granules

Product no.: MSDS-0011007

Current version : 4.0.1, issued: 26.01.2015

Replaced version: 4.0.0, issued: 15.12.2014

Region: GB

Algae toxicity

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

The materials used in this preparation will not persist in the environment. The free available chlorine from Sodium dichloroisocyanurate is rapidly consumed by reaction with organic and inorganic materials to produce chloride ion. The stable degradation products are chloride ion and cyanuric acid. Sodium Dichloroisocyanurate is subject to hydrolysis. Cyanuric acid produces by hydrolysis is biodegradable.

12.3 Bioaccumulative potential

Trichloroisocyanuric acid hydrolyses in water liberating chlorine and cyanuric acid. These products are not bioaccumulative.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

The substances contained in this preparation are not identified as PBT substances.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information

Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company. Do not put product, spilled product, partially filled containers into the waste compactor. Contact with incompatible materials could cause a reaction and fire. Do not transport damp or wet material. Neutralise materials to a non-oxidising state for safe disposal.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer. Clean Container and dispose of according to local and national regulations.

SECTION 14: Transport information

Can be shipped as a limited quantity when packed in inner or single packs ≤ 5 kg. When packed in inner or single packs ≤ 5 kg, Special Provision 375 of 2013 UN Model Regulations for the transportation of dangerous goods (IATA Special Provision A197) exempts this product from the labelling and documentation provisions of Dangerous Goods Regulations

14.1 Transport ADR/RID

Class	9
Classification code	M7
Packing group	III
Hazard identification no.	90
UN number	UN 3077
Technical name	Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)
Tunnel restriction code	
Label	9

14.2 Transport IMDG

Class	9
Subsidiary Risk	
Packing group	III
UN number	UN 3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)
EmS	
Label	9

14.3 Transport ICAO-TI / IATA

Class	9
Subrisk	
Packing group	III
UN number	UN 3077
Proper shipping name	Environmentally hazardous substance, solid, n.o.s (Dichloroisocyanuric acid, salts)
Label	9
Remarks	Environmentally hazardous substance

Trade name: PRESEPT™ Disinfectant Tablets & Granules

Product no.: MSDS-0011007

Current version : 4.0.1, issued: 26.01.2015

Replaced version: 4.0.0, issued: 15.12.2014

Region: GB

14.5 Other information

Independent tests, carried out by TNO Prins Maurits Laboratory, according to United Nations Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria, third revised edition, test O.1. has demonstrated that these products are not oxidising for transport. Furthermore, based on a bridging formula from section 2.9 of the UN Model Regulations 2011 the tablet mixture is not characterized as an acute aquatic hazard.

14.6 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3..

14.7 Special precautions for user

No data available.

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

Not relevant.

SECTION 15: Regulatory information

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

EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 2, category 3

National regulations

Other regulations

Adhere to chemicals prohibition.

15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Changes made since the last version

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

http://limitvalue.ifa.dguv.de/WebForm_ueliste.aspx

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H 272	May intensify fire; oxidiser.
H 302	Harmful if swallowed.
H 319	Causes serious eye irritation
H 335	May cause respiratory irritation.
H 400	Very toxic to aquatic life
H 410	Very toxic to aquatic life with long lasting effects

Department issuing safety data sheet

Ingenieur- und Sachverständigenbüro ROLAND BRAUN

Peter-Timm-Straße 21, D-22457 Hamburg

Tel.: +49 40 / 43 27 09 15 Fax: +49 40 / 43 27 09 16 e-mail: info@rolandbraun.de

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.