



Revision Date: July 1, 2019

SAFETY DATA SHEET POLYQUATERNIUM 7

1. PRODUCT INFORMATION AND COMPANY IDENTIFICATION

Product Name: Polyquaternium 7

Company: Chemistry Connection
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Conway, AR 72034
(501) 470-9689

Emergency Contact: Chemtrec: (800) 424-9300

2. HAZARD IDENTIFICATION

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

Classification of the product

Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic

Label elements

Pictogram:



Hazard Statement:

H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273	Avoid release to the environment.
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Precautionary Statements (Response):

P391	Collect spillage.
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Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste
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collection point.

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. COMPOSITION/INFORMATION ON INGREDIENTS

According to Hazardous Products Regulations (HPR) (SOR/2015-17)

INCI NAME	CAS NO.	CONCENTRATION (%)
2-Propen-1-aminium, N,N-dimethyl-N-2-propenyl-, chloride, polymer with 2-propenamides	26590-05-6	>= 25.0 - < 50.0%

4. FIRST AID MEASURES

Description of first aid measures

General advice:

If adverse health effects develop seek medical attention.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical attention if necessary.

If swallowed:

Rinse mouth thoroughly with water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.

Hazards: No hazard is expected under intended use and appropriate handling.

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

water spray, carbon dioxide, dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material.

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:

Take precautionary measures against static discharges. Avoid all sources of ignition: heat, sparks, open flame.

Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Keep away from water.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE), glass, Stainless steel 1.4541, Stainless steel 1.4571, Stainless steel 1.4301 (V2), Stainless steel 1.4401, Polytetrafluoroethylene-coated (PTFE), Polypropylene (PP)

Further information on storage conditions: Keep container tightly closed and dry; store in a cool place.

Storage stability:

Storage temperature: 5 - 40 °C

Protect from temperatures below: 5 °C

The packed product is destroyed at low temperatures or by frost.

Protect from temperatures above: 40 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No occupational exposure limits known.

Advice on system design:

No applicable information available.

Personal protective equipment

Respiratory protection:

Not needed.

Hand protection:

Wear chemical resistant protective gloves.

Eye protection:

Safety glasses with side-shields.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Odour:	characteristic
Odour threshold:	not determined
Colour:	colourless to yellowish
pH value:	4 - 5
Melting point:	not applicable
Boiling point:	100 °C
Sublimation point:	No applicable information available.
Flash point:	> 101 °C Aqueous preparation
Flammability:	not flammable
Flammability of Aerosol Products:	not applicable, the product does not

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	form flammable aerosols
Lower explosion limit:	For liquids not relevant for classification and labelling.
Upper explosion limit:	For liquids not relevant for classification and labelling.
Autoignition:	not applicable
Vapour pressure:	approx. 25 hPa (20 °C)
Density:	1.2906 g/cm ³ (20 °C) 1.2846 g/cm ³ (50 °C)
Vapour density:	not determined
Partitioning coefficient noctanol/ water (log Pow):	not determined
Self-ignition temperature:	not self-igniting
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	13,700 mPa.s (23 °C) (DIN 53019)
Viscosity, kinematic:	12,000 mm ² /s (23 °C)
Solubility in water:	soluble
Solubility (quantitative):	No applicable information available.
Solubility (qualitative):	soluble solvent(s): alcohols,
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section. No further information available.

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

strong oxidizing agents, strong bases, strong acids

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

11. TOXICOLOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.

Oral

Type of value: LD50

Value: > 5,000 mg/kg

Inhalation

No applicable information available.

Dermal

Type of value: LD50

Value: > 5,000 mg/kg

Assessment other acute effects

Assessment of STOT single:

Based on available Data, the classification criteria are not met.

Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

Sensitization

Assessment of sensitization: There is no evidence of a skin-sensitizing potential.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.

Genetic toxicity

Assessment of mutagenicity: The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity

Assessment of teratogenicity: No data was available concerning toxicity to development.

Other Information

The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

Symptoms of Exposure

No significant reaction of the human body to the product known.

12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Depending on local conditions and existing concentrations, disturbances in the nitrification process of activated sludge are possible.

Toxicity to fish

LC50 > 1 - 10 mg/l

Aquatic invertebrates

EC50 > 10 - 100 mg/l

Aquatic plants

EC50 > 10 - 100 mg/l

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

EC0: > 10 - 100 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Poorly biodegradable.

Elimination information

> 70 % Well eliminable from water by adsorption on activated sludge.

Bioaccumulative potential

Assessment bioaccumulation potential

No data available.

Bioaccumulation potential

Significant accumulation in organisms is not to be expected.

Mobility in soil

Assessment transport between environmental compartments

not applicable

Additional information

Add. remarks environm. fate & pathway:

The product has not been tested. The statements on environmental fate and pathway have been derived from the properties of the individual components.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

13. DISPOSAL CONSIDERATIONS

Waste disposal of substance:

Must be disposed of or incinerated in accordance with local regulations.

Container disposal:

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

14. TRANSPORT INFORMATION

Land transport

TDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains POLYQUATERNIUM 7)

Sea transport

IMDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains POLYQUATERNIUM 7)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (contains POLYQUATERNIUM 7)

15. REGULATORY INFORMATION

Federal Regulations

Registration status:

Cosmetic DSL, CA released / listed

Chemical DSL, CA released / listed

16. OTHER INFORMATION

All statements, technical information and recommendations contained herein are based on tests and data which Chemistry Connection believes to be currently reliable, but this accuracy or completeness thereof is not guaranteed and no warranty of any kind is made with respect thereto. This information is not intended as a license to operate under or a recommendation to practice or infringe any patent of this company or others covering any process, composition of matter or use. Since we shall have no control of the use of the product described here in, we assume no Liability for loss or damage incurred from the proper or improper use of such product.