Date of Issue: 30 November 2020
Revision Number: 8

SAFETY DATA SHEET

In accordance with Annex II of Regulations (EC) 1907/2006 as amended by Regulation (EU) 830/2015

1 IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

1.1 Product identifier
Product Name: **Quatron**

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

Food Grade Disinfectant- For professional use only

Uses advised against:
Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet
Company Name: Gannon Chemicals Ltd
Ballindine, Claremorris
Co. Mayo. Ireland
Email address of SDS author paul@gannonchemicals.ie

1.4 Emergency Telephone Number

Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

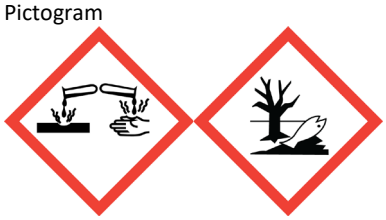
2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
Eye Damage (Category 1), H319
Very toxic to aquatic life, H400

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word Danger

Hazard statement(s)
H318 Causes serious eye damage
H315 Causes skin irritation
H400 Very toxic to aquatic life

Precautionary statement(s)
P273 Avoid release to the environment
P280 Wear protective gloves/protective clothing/eye protection/face protection
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P391 Collect spillage

Supplemental Hazard: None

2.3 Other hazards
No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Product/Ingredient Name	CAS No.	Weight %	EC Number	Regulation (EC) No 1272/2008 [CLP]
didecyldimethylammonium chloride	7173-51-5	5 - 10		Acute Tox. 4: H302 Skin Corr. 1B: H314 Aquatic Acute 1 H400 Aquatic Chronic 2 H411

4 FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1	General Information	Immediately remove contaminated clothing.
4.1.2	Following Inhalation	Keep patient calm, remove to fresh air, and seek medical attention.
4.1.3	following skin contact	Wash thoroughly with soap and water.
4.1.4	Following Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
4.1.5	Following Ingestion	Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.
4.1.6	Self-protection of the first aider	

4.2 Most important symptoms and effects, both acute and delayed
Symptoms: Eye irritation, skin irritation

4.3 Indication of any immediate medical attention and special treatment needed
Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Suitable extinguishing media: water spray, dry powder, foam
Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for fire-fighters

Special protective equipment: Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves.

5.4 Additional information

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective clothing. Information regarding personal protective measures see, chapter 8.

6.2 Environmental precautions
Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up
For large amounts: Pump off product.
For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7 HANDLING AND STORAGE

7.1	Precautions for safe handling	Ensure there is sufficient ventilation of the area.
7.2	Conditions for safe storage, including any incompatibilities	Store at normal room temperature and keep container tightly closed. Keep out of reach of children. No special precautions necessary for protection against fire and explosion. Store away from strong acids.
7.3	Precautions for safe handling	For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1. Control parameters

Components with occupational exposure limits
No occupational exposure limits known.

8.2. Exposure controls
Personal protective equipment
Respiratory protection:
Respiratory protection in case of vapour/aerosol release. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:
Chemical resistant protective gloves (EN 374)
Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): nitrile rubber (NBR) - 0.4 mm coating thickness.
Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing.
Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:
Tightly fitting safety goggles (cage goggles) (e.g. EN 166) and/ or face shield.

Body protection:
Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures
Wearing of closed work clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

Recommended safety measures for handling the diluted product

Recommended maximum concentration (%): 1

Appropriate engineering controls:
The product is intended to be used in closed systems. Use only in well ventilated areas.

Appropriate organisational controls:
No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection:
Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.
Hand protection:
If the product is applied in a closed system, as recommended, no respiratory protection equipment will be required.
Body protection:
No special requirements under normal use conditions.
Respiratory protection:
If the product is applied in a closed system, as recommended, no respiratory protection equipment will be required.
Environmental exposure controls:
No special requirements under normal use conditions.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

(a)	Form	Liquid
(b)	Colour	Purple
(c)	Odour	Distinctive
(d)	pH value(1% solution)	7
(e)	Melting point/range (°C):	Not Determined
(f)	Initial boiling point/range (°C):	Not Determined
(g)	Decomposition temperature (°C)	Not Determined
(h)	Flash point (°C):	Not Determined
(i)	Ignition temperature (°C)	Not Determined
(j)	Vapour pressure (hPa) at …°C)	Not Determined
(k)	Vapour density (air=1)	Not Determined
(l)	Density (g/cm3) at 20°C	1.0
(m)	Bulk density (kg/m3)	Not Determined
(n)	Water solubility (20°C in g/l	Completely
(o)	Solubility(ies):	Not Determined
(p)	Partition coefficient	Not Determined
(q)	Viscosity, dynamic (mPa s):	Not Determined

9.2 Other information

Incompatible with strong acids

10 STABILITY AND REACTIVITY

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

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

10.3 Possibility of hazardous reactions
No hazardous reactions when stored and handled according to instructions.

10.4 Conditions to avoid
See MSDS section 7 - Handling and storage.

10.5 Incompatible materials
Substances to avoid: Halogens, Acids, Reactive Chemicals

10.6 Hazardous decomposition products
No hazardous decomposition products known.

11 TOXICOLOGICAL INFORMATION

11.2.2 Mixtures
No test data is available on the mixture.
Substance data, where relevant and available, are listed below

Substance	Acute toxicity	Skin corrosion/irritation	Serious eye damage/eye irritation	Respiratory or skin sensitisation
Didecyldimethylammonium Chloride	Oral, DL50: 238 mg/kg (rat) Dermal, DL50: 3342 mg/kg (Rabbit)	Caustic effect on skin and mucous membranes.	Strong caustic effect.	Buehler Test - Guinea pig Result: negative (OECD Test Guideline 406)

Carcinogenicity
IARC: 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.

12 ECOLOGICAL INFORMATION

Do not allow product to reach ground water, water course or sewage system. The product contains materials that are harmful to the environment.

Substance	Toxicity	Persistence and Degradability	Bioaccumulative potential	Mobility in soil
Didecyldimethylammonium Chloride	Daphnia, CE50 (S): 0,011 - 0,099 mg/l Daphnia, NOEC : 0,010 - 0,099 mg/l	Biodegradable	No Data Available	No Data Available

Results of PBT and vPvB assessment
The product does not fulfil the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

13 DISPOSAL

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.
European Waste Catalogue: 16 03 05* - organic wastes containing dangerous substances.

Packaging may be reused or recycled after cleaning. If recycling is not possible, dispose according to the local regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 TRANSPORT INFORMATION

ADR, RID, ADN, IMO/IMDG, ICAO/IATA

14.1 UN number: 3082
14.2 UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Didecyldimethylammonium Chloride)
14.3 Transport hazard class(es):
Class: 9
Label(s): 9

14.4 Packing group: III

14.5 Environmental hazards:
Environmentally hazardous: Yes

Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
The product is not transported in bulk tankers.

Other relevant information:
ADR
Classification code: M6
Tunnel restriction code: E
Hazard identification number: 90

IMO/IMDG
EmS: F-A, S-F

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

Classification procedure
The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Abbreviations and acronyms:

- STOT - Specific Target Organ Toxicity
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate

Date **30/11/2020** Revision Number: 8 Author: Paul Gannon