

**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: **Triquest 10**

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

**Medical Instrument cleaner** - 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 H318  
Skin Corr. (Category 1A), H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

**2.2 Label elements**

*Labelling according Regulation (EC) No 1272/2008*

Pictogram



Signal word **Danger**

**Hazard statement(s)**

H315 - Causes skin irritation  
H318 - Causes serious eye damage.

**Precautionary statement(s)**

P280 Wear protective gloves/protective clothing/eye protection/face protection  
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P305+351+338 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.

**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]
Sodium Hydroxide	1310-73-2	10 -25	215-185-5	Met. Corr. 1; H290 Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %
Maleic acid, Polymer with Diisobutene, sodium salt	Polymer	1 – 5	Polymer	Eye Dam./Irrit. 2 H319
Reaction mass of (2S)-Alanine, N,N-bis(carboxymethyl)-, trisodium salt and (2R)-Alanine, N,Nbis( carboxymethyl)-, trisodium salt	Mixture	1 – 5	Mixture	Met. Corr. 1. H 290
Amino tris (methylenephosphonic acid)	6419-19-8	1 - 5	229-146-5	Met. Corr. 1 H290 Skin Irrit. 2 H315 Eye Irrit. 2 H319

## 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

- |            |  |  |
|------------|--|--|
| <b>7.1</b> | Precautions for safe handling                                | Ensure there is sufficient ventilation of the area.  |
| <b>7.2</b> | 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. |
| <b>7.3</b> | 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 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 (%):** 0.5

**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.

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1. Information on basic physical and chemical properties**

(a)	Form	Liquid
(b)	Colour	Tan
(c)	Odour	Faint
(d)	pH value(1% solution)	10.6
(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/cm <sup>3</sup> ) at 20°C	1.05
(m)	Bulk density (kg/m <sup>3</sup> )	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

<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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**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
Sodium Hydroxide	Toxic Dose 1 – LD 50 - 325 mg/kg (oral rat)	Skin - rabbit Result: Causes severe burns. - 24 h	Eyes - rabbit Result: Corrosive - 24 h	Will not occur
Maleic acid, Polymer with Diisobutene, sodium salt	Experimental/calculated data: LD50 rat (oral): > 2,000 mg/kg	Skin corrosion/irritation rabbit: non-irritant (Draize test)	Serious eye damage/irritation cattle: no irreversible damage (BCOP)	No Data Available
Reaction mass of (2S)-Alanine, N,N-bis(carboxymethyl)-, trisodium salt and (2R)-Alanine, N,Nbis( carboxymethyl)-, trisodium salt	Experimental/calculated data: LD50 rat (oral): > 4,000 mg/kg	Skin corrosion/irritation rabbit: non-irritant	Serious eye damage/irritation rabbit: Non Irritant	Guinea pig maximization test: No sensitizing effect.
Amino tris (methylenephosphonic acid)	LD50 rat (oral): > 2,910 mg/kg LD50 rabbit (dermal): > 6310 mg/kg	Causes skin irritation	Causes serious eye irritation	Not classified

#### 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

Substance	Toxicity	Persistence and Degradability	Bioaccumulative potential	Mobility in soil
Sodium Hydroxide	LC50 - Oncorhynchus mykiss (rainbow trout) - 45.4 mg/l - 96 h	The methods for determining the biological degradability are not applicable to inorganic substances	The product is not bioaccumulating.	No Data Available
Maleic acid, Polymer with Diisobutene, sodium salt	Aquatic invertebrates: EC50 (48 h) > 100 mg/l, Daphnia magna	70 - 80 % DOC reduction (24 h) (ISO 18749) (aerobic, activated sludge, domestic) Easily eliminated from water.	Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is possible.
Reaction mass of (2S)-Alanine, N,N-bis(carboxymethyl)-, trisodium salt and	Toxicity to fish:	Readily biodegradable.	Because of the n-octanol/water	The substance will not evaporate

(2R)-Alanine, N,Nbis( carboxymethyl)-, trisodium salt	LC50 (96 h) > 200 mg/l, Brachydanio rerio	80 - 90 % BOD of the ThOD (28 d)	distribution coefficient (log Pow) accumulation in organisms is not to be expected.	into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.
Amino tris (methylenephosphonic acid)	EC50 Water flea (Daphnia magna) 265 mg/l 48h, LC50 Rainbow trout (Oncorhynchus mykiss) >3440 mg/l 72 h, EC50 Algae (Selenastrum capricornutum) >140mg/l	The total of the organic components contained in the product is not classified as "readily biodegradable" (OECD-301 A-F). However, this product is expected to be inherently biodegradable.	There is no evidence to suggest bioaccumulation will occur.	Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

#### 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

This product does not contain any prescribed substance under the Environmental Protection Act (Prescribed Processes and Substances) Regulations 1991 and is not classified as special waste under the Control of Substances (Special Waste) Regulations 1996, but is classified as controlled waste under the Environmental Protection Act 1990. For small quantities, dilute with water to at least 2.5% w/v (25 g/litre) and pour down a wastewater drain (foul sewer). Rinse out containers at least twice and recycle if facilities exist or dispose of as commercial waste. For larger quantities dispose of safely as commercial waste. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

#### Empty packaging

Dispose of observing national or local regulations.

#### Suitable cleaning agents:

Water, if necessary with cleaning agent.

### 14 TRANSPORT INFORMATION



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

14.1 UN number: 1824

#### 14.2 UN proper shipping name:

Sodium hydroxide solution

#### 14.3 Transport hazard class(es):

Class: 8

Label(s): 8

14.4 Packing group: II

#### 14.5 Environmental hazards:

Environmentally hazardous: No

**Marine pollutant:** No

**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:** C5

**Tunnel restriction code:** E

**Hazard identification number:** 80

**IMO/IMDG**

**EmS: F-A, S-B**

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.

<b>15 REGULATORY INFORMATION</b>
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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

<b>16 OTHER INFORMATION</b>
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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

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Author: Paul Gannon