

SECTION 1 Identification**1.1. GHS Product identifier**

Product form : Mixture
Product name : TRISTEL ULT BASE SOLUTION

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Disinfectant
Restrictions on use : Other

1.4. Supplier's details**Manufacturer**

Tristel Solutions Limited
Unit 1B
Lynx Business Park
Fordham Road
Newmarket, Cambridgeshire, CB8 7NY
United Kingdom
T +44 (0) 1638 721500
SDS@tristel.com

Distributor

INNOVA Medical
136 Sparks Avenue
Toronto, Ontario M2H 2S4
Canada
T +4166150185

1.5. Emergency phone number

Emergency number : 1-844-764-7669

SECTION 2 Hazard identification**2.1. Classification of the substance or mixture****Classification (GHS CA)**

Not classified

2.2. GHS label elements, including precautionary statements**GHS CA labeling**

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

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

Not applicable

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according to the Hazardous Products Regulation (WHMIS 2015)

3.2. Mixtures

| Name | Chemical name / Synonyms | Product identifier | % | Classification (GHS CA) |
|-----------------------------------|---|--------------------|--------|---|
| CITRIC ACID MONOHYDRATE | 2, HYDROXY-1,2,3 PROPANE TRICARBOXYLIC ACID | CAS-No.: 5949-29-1 | 1 – 10 | Eye Irrit. 2, H319 STOT SE 3, H335 |
| 1-DECANAMINE,N,N-DIMETHYL-N-OXIDE | SURFACTANT DECAMINE OXIDE | CAS-No.: 2605-79-0 | 1 – 5 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 |

Full text of hazard classes and H-statements : see section 16

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : May cause moderate irritation.
Symptoms/effects after eye contact : May cause eye irritation.
Symptoms/effects after ingestion : May cause irritation to the digestive tract.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with eyes.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Storage temperature : 10 – 35 °C

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Avoid contact with skin.

Eye protection:

Avoid contact with eyes.

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Ensure there is sufficient ventilation of the area during use.

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Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Color | : Blue. |
| Odor | : No data available |
| Odor threshold | : No data available |
| pH | : 2 – 3 |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : 1.02 – 1.03 |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : No data available |
| Explosion limits | : No data available |
| Particle characteristics | : No data available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

| | |
|------------------------------------|---------------------------------------|
| Reactivity | : No additional information available |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No additional information available |
| Conditions to avoid | : No additional information available |
| Incompatible materials | : No additional information available |
| Hazardous decomposition products | : No additional information available |
| Hardening time: | : No additional information available |

SECTION 11 Toxicological information

11.1. Likely routes of exposure

| | |
|-----------------------------|------------------|
| Acute toxicity (oral) | : Not classified |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| CITRIC ACID MONOHYDRATE (5949-29-1) | |
|-------------------------------------|--------------|
| LD50 oral rat | 11700 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |

| 1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (2605-79-0) | |
|---|--|
| LD50 oral rat | 300 – 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method) |
| LD50 oral | 300 – 2000 mg/kg |
| LD50 dermal rat | > 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) |
| ATE CA (oral) | 500 mg/kg body weight |

| | |
|-----------------------------------|-------------------------------|
| Skin corrosion/irritation | : Not classified pH: 2 – 3 |
| Serious eye damage/irritation | : Not classified pH: 2 – 3 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |

| CITRIC ACID MONOHYDRATE (5949-29-1) | |
|-------------------------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified |

| 1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (2605-79-0) | |
|---|--|
| NOAEL (oral,rat,90 days) | 40 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other: |
| Aspiration hazard | : Not classified |

| CITRIC ACID MONOHYDRATE (5949-29-1) | |
|-------------------------------------|--|
| Viscosity, kinematic | Not applicable |
| Symptoms/effects after inhalation | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : May cause moderate irritation. |
| Symptoms/effects after eye contact | : May cause eye irritation. |
| Symptoms/effects after ingestion | : May cause irritation to the digestive tract. |

SECTION 12 Ecological information

12.1. Toxicity

| | |
|---|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

| CITRIC ACID MONOHYDRATE (5949-29-1) | |
|-------------------------------------|----------------|
| LC50 - Fish [1] | 440 – 706 mg/l |

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12.2. Persistence and degradability

TRISTEL ULT BASE SOLUTION

| | |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |
|-------------------------------|---|

CITRIC ACID MONOHYDRATE (5949-29-1)

| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

| | |
|----------------|------|
| Biodegradation | 97 % |
|----------------|------|

1-DECANAMINE,N,N-DIMETHYL-N-OXIDE (2605-79-0)

| | |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

| | |
|----------------|------|
| Biodegradation | 97 % |
|----------------|------|

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

| | |
|--|---|
| Regional waste regulation | : Disposal must be done according to official regulations. |
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations | : Disposal must be done according to official regulations. |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations. |
| Additional information | : Do not re-use empty containers. |

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN Number

| | |
|---------------|------------------|
| UN-No. (TDG) | : Not applicable |
| UN-No. (DOT) | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |

14.2. UN Proper Shipping Name

| | |
|-----------------------------|------------------|
| Proper Shipping Name (TDG) | : Not applicable |
| Proper Shipping Name (DOT) | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : Not applicable

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DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group, if applicable

Packing group (TDG) : Not applicable

Packing group (DOT) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

TDG

Not applicable

DOT

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

No additional information available

SECTION 16 Other Information

Issue date : 02-20-2025

Revision date : 02-20-2025

Full text of hazard classes and H-statements:

| | |
|------|---|
| H302 | Harmful if swallowed |
| H318 | Causes serious eye damage |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H400 | Very toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |

Safety Data Sheet (SDS), Canada

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Safety Data Sheet

according to the Hazardous Products Regulation (WHMIS 2015)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.