



1. IDENTIFICATION OF SUBSTANCE & COMPANY IDENTIFICATION

Product **UNO-FLUSH**

Use Cleanser for the initial flush and wipe of an endoscope.

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2. HAZARDS IDENTIFICATION

Product is classed as Non-Hazardous according to Chemicals (Hazard Information and Packaging) Regulations UK (CHIP), EC Dangerous Substances Directive 67/548/EEC or Dangerous Preparations Directive 1999/45EC, including subsequent amendments up to the date of this document. Common sense precautions should be observed during handling and use.

Risks: none

EMERGENCY OVERVIEW:

Clear, pale blue coloured liquid. Non flammable and will not support combustion.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Constituents: A blend of low foam, non-ionic surfactants, chelating agents and biocides.

Hazardous Ingredients:	CAS No	EINECS No	%w/w (Range)	Nature of Hazard
2-Aminoethanol	141-43-5	205-483-3	1	C, Corrosive, R20/21/22, R34
Cationic surfactant	7173-51-5	230-525-2	1	C, Corrosive, N (Note 1), R10, R22, R34, R50, R67
Alkyl triamine	2372-82-9	219-145-8	1	C, Corrosive, N (Note 1), R22, R34, R50

Note 1: N = Dangerous to the environment.

4. FIRST AID

Symptoms:

Effects due to overexposure when:

Contact with eyes: Causes mild irritation and redness

Contact with skin: Prolonged or repeated contact may cause mild irritation and redness that may lead to skin eczema if contact persists.

Ingested: Ingestion of large amounts may cause mild irritation to mouth, throat and digestive system.

Inhaled: Mist or spray may cause slight irritation of the mucous membrane and the respiratory system.

Action:

General:

If you feel unwell seek medical advice (show this information or the container label where possible).

Eye: Irrigate with flowing water for at least 15 minutes. Seek medical attention if irritation or soreness persists.

Skin: After prolonged use, rinse affected area with water. In the unlikely event of irritation or soreness developing, seek medical advice. Launder contaminated clothing before re-use.

Ingestion: Do not induce vomiting, unless instructed to do so by medical personnel. Rinse mouth with water and drink 1 or 2 glasses of water or milk. Seek medical advice if discomfort persists.

Inhalation: Remove from exposure. Keep warm and at rest. If discomfort persists seek medical advice.

Note to Physician:

Treat by observation and supportive measures as indicated by the patient's condition.

No specific antidote.



Safety Data Sheet (SDS)

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Not applicable
MEDIA TO BE AVOIDED: None

FIRE FIGHTING INSTRUCTIONS: Keep people away. In the event of adjacent fire, cool containers with water spray.

HAZARDOUS COMBUSTION PRODUCTS: During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon monoxide, carbon dioxide, oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

PROTECT PEOPLE: Evacuate personnel (Large spillage). Avoid prolonged contact with the liquid. Protective clothing should be worn when dealing with any spillage.

PROTECT THE ENVIRONMENT: Keep large spills out of sewers. If contamination of drainage systems or watercourses is unavoidable, immediately inform appropriate authorities. Small spills may however be safely flushed away to foul sewer with plenty of water.

CLEAN UP: Contain and absorb with material such as earth, sand or absorbent granules. Remove contaminated material to plastic containers and thence to safe location for subsequent disposal.

7. HANDLING AND STORAGE

HANDLING: Avoid spilling. Avoid prolonged contact with skin and protect eyes. When using do not eat, drink or smoke.

STORAGE: Store upright in a cool, dry, well-ventilated area, between 5°C and 35°C. Avoid exposure to direct sunlight or sources of heat. Keep containers closed when not in use.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. When using, do not eat, drink or smoke.

PERSONAL PROTECTIVE EQUIPMENT:

Eye/face protection: Use chemical goggles or face shield if pressure washing or the risk of splashes is a concern. Eyewash stations should be provisioned.

Skin protection: Use suitable protective clothing, gloves/coveralls, for periods of prolonged contact. Butyl or nitrile rubber gloves are suitable. Use aprons if splash protection is required during prolonged exposure.

EXPOSURE GUIDELINES:

Occupational Exposure guidelines have been established for this product by UK Guidance Note EH40:
2-aminoethanol 3ppm (7.6mg/m³) LTEL (8h TWA) and 6ppm (15mg/m³) STEL (15 minute TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear pale blue coloured liquid
ODOUR:	odourless
pH:	11.3 approx
DENSITY:	1.00 to 1.01
SOLUBILITY IN WATER:	Completely miscible
FLASH POINT (Abel Closed Cup, BS2100 pt 170):	Non flammable as supplied
AUTOIGNITION TEMPERATURE:	Not applicable
FLAMMABILITY LIMITS:	Not applicable
THERMAL DECOMPOSITION TEMPERATURE:	Not established

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under recommended storage and usage conditions
CONDITIONS TO AVOID:	Avoid heating above storage temperature
INCOMPATIBILITY WITH OTHER MATERIALS:	Avoid contact with acids and other cleaning materials
HAZARDOUS DECOMPOSITION PRODUCTS:	Does not decompose under normal use conditions
HAZARDOUS POLYMERIZATION:	Will not occur



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11. TOXICOLOGICAL INFORMATION:

(For detailed toxicological data, write or call the address or the non-emergency number shown at the top of the first page)

No significant health hazard when properly used for the application it was designed for.

See section 4 for exposure symptoms.

Not known to be a skin or respiratory sensitizer.

Data:

LD50 Non-ionic surfactant (rat, oral) > 2000 mg/Kg

LD50 Alkyl triamine Compounds (rat, oral) 200 to 2000 mg/Kg (estimate based on test data from similar products)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE (MOVEMENT AND PARTITIONING):

Completely miscible in water. Non-bio-accumulative.

DEGRADATION AND PERSISTENCE (ECOTOXICITY):

Chelating agents are fully biodegradable according to appropriate OECD criteria. Main concern is the high alkalinity of the product should it enter surface drains or rivers, etc.

The surfactant(s) contained in this preparation comply with the biodegradability requirements as laid down in Regulation (EC) No. 648-2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them, at their direct request or at the direct request of a detergent manufacturer.

Data:

EC50 (Daphnia) for alkyl triamine component, 48h<1mg/L

13. DISPOSAL CONSIDERATIONS

(See section 15 for regulatory information)

DISPOSAL: Do not discharge large volumes into sewers, on the ground or into any body of water. All disposal methods must be in compliance with local laws and regulations (Regulations may vary in different locations). Disposal of dilute solutions via the foul sewer will not cause any problems to waste treatment facilities.

For unused and uncontaminated products, the preferred disposal options include sending to a licensed, permitted recycler or reclaimer.

Packaging containers are recyclable. Rinse out well with water and send for recycling or dispose of in accordance with local authority requirements.

14. TRANSPORT INFORMATION

UN No:

Proper Shipping Name:

Hazard Classification: Not hazardous for transport

CEPIC TEC(R) No:

Packaging Group:

Marine Pollutant:

Label for Carriage: None

15. REGULATORY INFORMATION

This safety Data Sheet is provided in compliance with the European REACH Directive (1097/2006/EC) and is in agreement with the GHS (Global Harmonised System) for the classification and labelling of Dangerous Chemicals. This safety data sheet is distributed solely for the purpose of the Health and Safety at Work Act 1974; included under this heading is article 10 of Directive 88/379/EEC.

All components that make up this product are registered, or are not required to be listed, with:

EUROPEAN INVENTORY OF NEW AND EXISTANT CHEMICAL SUBSTANCES (EINECS), and TOXIC SUBSTANCES CONTROL ACT (TSCA).

Label for Supply: Nine

Risks:

None

Safety Phrases:

S24/25

Avoid contact with skin and eyes

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection

UK Regulations Considered in the development of this data sheet were:

Chemical (Hazard Information and Packaging) Regulations (CHIP3)

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations, aligned with ADR.

Workplace Exposure Limits, Guidance Note EH40

16. OTHER INFORMATION

The data contained in this data sheet is based on Medical Innovations' present knowledge of the health and safety properties of the product, and is believed to be accurate and given in good faith.

The physical and chemical properties are typical values only and do not constitute the specification of the product, which will be agreed separately.

The data given here only applies when product is used for the proper application(s). The product is not sold as suitable for applications other than those identified at Section 1, usage as such may cause risks not mentioned in this sheet.

It is for the customer to satisfy itself on the suitability of the product for its own particular purpose. Medical Innovations gives no warranty as excluded, except to the extent that law prevents such exclusion.

Full details of the Risk Phrases used in Section 2 and not as stated in Section 15, are given below;

R10	Flammable
R20-21-22	Harmful by inhalation, in contact with skin and if swallowed
R34	Causes burns
R36/37/38	Irritating to eyes, respiratory system and skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
R67	Vapours may cause drowsiness and dizziness

The following definition of terms and abbreviations used within this document used:

CAS: Chemical Abstracts Number
OES: Occupational Exposure Standard
TLV: Threshold Limit Value
TWA: Time Weighted Average
LTEL: Long Term Exposure Limit
STEL: Short Term Exposure Limit
HSE: Health & Safety Executive (UK)
LEV: Local Exhaust Ventilation

It is the responsibility of the user to ensure safe working conditions. The health hazards and general information contained within this Material Safety Data Sheet are given as a guide to the precautions required to maintain a safe working environment.