SAFETY DATA SHEET

Diff-X disinfection sachet

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material, as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in the REACH Regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Diff-X disinfection sachet

1.2 Relevant identified uses of the substance or mixture and uses advised against
Surface disinfection

1.3 Details of the supplier of the safety data sheet
MTP Innovations Ltd
3M Buckley Innovation Centre
Firth Street
Huddersfield, HD1 3BD
Tel: 01484 505615
E mail: info@mtpinnovations.com

1.4 Emergency telephone number

Tel. +44 (0) 1484 505615 (office hours only)

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008

Acute Toxicity. Cat. 4 H302 Harmful if swallowed
Eye Damage. Cat. 1 H318 Causes serious eye damage

2.2 Label elements

Labelling in accordance with the Classification Labelling and Packaging Regulation EC (no) 1272/2008

Danger
H302 Harmful if swallowed
H318 Causes serious eye damage
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear 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 Centre or
doctor/physician.
P501 Dispose of contents/container in accordance with local/national regulations

2.3 Other hazards
Contact with eyes may cause severe damage without rapid first aid. There are no known long-term health effects resulting from exposure.
The product is not considered to be hazardous to the environment, although care should be taken to avoid direct loss to the environment.
Contains no substances known to be PBT or vPvB or to have endocrine disrupting properties.

SECTION 3: Composition

3.1 Substances
Not relevant – the product is a mixture

3.2 Mixtures

Hazardous components above thresholds of concern:

Name	CAS No	Concentration % w/w	Classification
Sodium Percarbonate	EC 239-707-6 CAS 15630-89-4	40-60%	Ox. Sol. 2 H272 Acute tox. 4 H302 Eye Dam. 1 H318 Specific conc. Limits: Conc. range (%) > 25.0 Eye Damage 1 Conc. range (%) >= 7.5 < 25.0 Eye Irrit. 2
Citric Acid	EC 201-069-1 CAS 77-92-9	20-30%	Eye Irrit. 2 H319 STOT SE 3 H335
Disodium EDTA dihydrate	EC 205-358-3 CAS 6381-92-6	1-5%	Acute Tox. 4 H332 STOT RE 2 H373

See section 16 for full description of H statements.

SECTION 4: First Aid Measures

4.1 Description of first aid measures
EYE CONTACT: Flush eyes immediately with plenty of water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION.
INHALATION: If exposed to dust or spray, move to area of fresh air. If any signs of adverse effect, obtain medical advice.
SKIN CONTACT: Wash skin immediately with water. Obtain medical advice if continued signs of irritation or discomfort are noted. Wash clothing before re-use.
INGESTION: If swallowed, rinse mouth thoroughly and drink small quantity of water (500 ml). Obtain immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed
EYE: May cause severe irritation and permanent eye damage if first aid is not quickly administered.
INHALATION: Inhalation of dust and sprays may cause irritation of the respiratory tract (nose, throat), coughing, breathing difficulties.
SKIN: Like all cleaning products, may cause mild irritation, especially on prolonged or repeated contact.
INGESTION: May cause irritation to the mouth, throat and gastrointestinal tract.

4.3 Indication of any immediate medical attention and special treatments needed
Symptomatic treatment as required.

SECTION 5: Firefighting Measures

5.1 Extinguishing media
Not flammable. No known adverse reactions to any normal extinguishing media. Use extinguishing media appropriate to surrounding conditions.

5.2 Special hazards arising from the substance or mixture
Keep fire-exposed containers cool with water spray. Prevent run-off from entering streams and watercourses.

5.3 Advice for fire fighters
Fire fighters should wear thermal and chemical protective clothing as appropriate.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove unnecessary personnel away from area of spill or contamination. During cleaning, protective clothing should be worn to avoid contact with skin and eyes.

6.2 Environmental precautions
Prevent spilled material or washings entering water courses or storm-water drainage systems. Diluted product and washings may be discharged into foul-water systems leading to wastewater treatment plants.

6.3 Methods and materials for containment and clearing up
Collect spilled sachets and place in suitably labelled containers for disposal as hazardous waste. The area contaminated by the spill should be washed with water. Do not use combustible materials such as paper towels, sawdust etc. to contain spillage of undiluted material.

6.4 References to other sections
See sections 8 and 13 for further advice on precautions and disposal.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Do not breathe dust. Use only in a well-ventilated location. Eye protection, gloves and coveralls recommended when handing the product. See section 8 for more details. Wash hands with soap and water after handling this material. Do not eat or drink while handling this material.

7.2 Conditions for safe storage, including any incompatibilities
Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store containers away from incompatible chemicals (see section 10). Keep container tightly closed when not in use.

7.3 Specific end uses(s)
If using a spray, important to avoid spraying where there is a risk of contact with eyes.

SECTION 8. Exposure Controls/Personal Protection

8.1 Control parameters
No specific exposure limits available.

8.2 Exposure controls

Engineering controls
Not usually required. Use in well ventilated areas and avoid formation of dust or spray.

Respiratory protection
None required during normal handling.

Hand Protection
Gloves suitable for inorganic oxidising agents must be worn. Nitrile, PVC or natural rubber considered suitable, but glove manufacturer recommendations for break-through times should always be checked. Change gloves in accordance with manufacturer recommendations. If gloves are damaged during use, remove immediately and wash hands before replacing with new gloves.

Eye protection
Safety glasses or goggles should be worn when handling this product.

Skin protection
Coveralls recommended. These should be changed after use or if contaminated. Wash before re-use.

Environmental Exposure Controls
When handling small quantities (less than 5 litres), no special precautions required. If handling bulk material, precautions should be taken to avoid accidental release to water courses.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Small sachets – off white
Odour:	Citrus fragrance
Odour threshold:	Not applicable
pH:	6.5 (1% w/v) (Method: CIPAC MT 75.3)
Melting point:	Solid under normal handling and storage
Boiling point:	Not applicable
Flashpoint:	> 100°C (Method EC A.9)
Evaporation rate:	Negligible
Flammability:	Not flammable (Method: UN TDG N.1 and EC A.10)
Upper/lower flammability limits:	Not applicable
Vapour pressure:	Negligible
Vapour density:	Not applicable
Relative density:	Density based on ingredients ca 2.1
Solubility in water:	Completely soluble
Solubility in other solvents:	Not determined
Partition coefficient (log Kow):	Not determined; organic components water soluble
Autoignition temperature:	No ignition (Method: EC A.15)
Decomposition temperature:	Not determined
Viscosity:	Not applicable, solid
Explosive properties:	Not classified as explosive (Method: EC A.14)
Oxidising properties:	Not classified as oxidising (Method UN TDG O.1)

9.2 Other information
None

SECTION 10: Stability and Reactivity

10.1 Reactivity
The mixture is not considered to be reactive. The mixture has been tested for reactive properties (flammability, explosivity, oxidising potential) and was not considered to be hazardous in all tests.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
The components of this product react together in water to generate peracetic acid and foam. When used as directed and diluted in a suitable volume of water this reaction is not hazardous.

10.4 Conditions to avoid

Avoid extreme temperatures.

10.5 Incompatible materials
Strong acids and bases.

10.6 Hazardous decomposition products
None expected under normal conditions of use.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

This product has not been tested. Judgements on the expected toxicity of this product have been made based upon consideration of its major components.

(a) acute toxicity	Based on available data, the mixture is expected to be harmful if ingested. The calculated ATE for the mixture is 1937 mg/kg.
(b) skin corrosion/irritation	Based on available data, the classification criteria are not met. May cause mild irritation on prolonged or repeated exposure.
(c) serious eye damage/irritation	Based on available data, the mixture is expected to cause severe damage to eyes, with permanent damage if first aid is not swiftly applied.
(d) respiratory/skin sensitisation	Based on available data, the classification criteria are not met. Contains no components known to be sensitising above thresholds of concern.
(e) germ cell mutagenicity	Based on available data, the classification criteria are not met. Contains no components known to be mutagenic above thresholds of concern.
(f) carcinogenicity	Based on available data, the classification criteria are not met. Contains no components known to be carcinogenic above thresholds of concern.
(g) reproductive toxicity	Based on available data, the classification criteria are not met. Contains no components known to be toxic to reproduction above thresholds of concern.
(h) STOT-single exposure	Based on available data, the classification criteria are not met. If dust or spray are generated, these may cause irritation to respiratory tract.
(i) STOT-repeated exposure	Based on available data, the classification criteria are not met**.** None of the components are known to cause specific target organ toxicity effects.
(j) aspiration hazard	Based on available data, the classification criteria are not met. Aspiration toxicity is not relevant for this type of product.

SECTION 12: Ecological Information

The preparation has not been tested but there are no components present at concentrations that will cause the preparation to be classified as hazardous to the environment.

12.1 Toxicity
Not considered to be hazardous to the environment.

12.2 Persistence and degradability
None of the components are expected to be persistent. The organic components are all considered to be biodegradable.

12.3 Bioaccumulative potential
None of the components are expected to bioaccumulate.

12.4 Mobility in soil
The components are all soluble in water.

12.5 Results of PBT and vPvB assessment
There are no components considered to be persistent or bioaccumulative.

12.6 Other adverse effects
None known.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods
It is recommended to dispose of small quantities of this material by flushing with an excess of water to foul drainage. A dilution factor of 100 is recommended. Larger quantities of waste should be treated as chemical waste in a manner that complies with local regulations. Advice should be sought from local agencies.

The containers should be rinsed thoroughly with water and can be disposed of as non-hazardous waste.
Follow supplier recommendations.

SECTION 14: Transport Information

Not classified as dangerous goods.

	ADR	IMDG	ICAO
14.1 UN Number	None	None	None
14.2 UN Proper shipping name	None	None	None
14.3 Transport hazard class(es)	None	None	None
14.4 Packing group	None	None	None
14.5 Environmental hazards	None	None	None
14.6 Special precautions for user	None	None	None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable

SECTION 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
All components are listed as existing substances in Europe

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has not been carried out for this product.

SECTION 16: Other Information

Revision information:
The classification of this product according to CLP and transport of dangerous goods regulations has been updated following new testing. The other sections of the SDS have been revised to reflect the change in classification.

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008
ECHA European Chemicals Agency
PBT Persistent, Bioaccumulative and Toxic
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) no 1907/2006
vPvB very Persistent, very Bioaccumulative

References:

Suppliers Safety Data Sheets
ECHA CHEM databases : Source: European Chemicals Agency, http://echa.europa.eu/

Method used for classification of mixtures:

Ingredient based approaches

H Statements used in Section 3

H272	May intensify fire; oxidiser
H302	Harmful if swallowed.
H318	Causes serious eye damage
H319	Causes serious eye irritation.
H332	Harmful if inhaled
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure

Training requirements for workers

No special training requirements.