SAFETY DATA SHEET

Diluted Diff-X solution

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
Diluted Diff-X solution
This Safety Data Sheet applies to a 2% solution of Diff-X. This is equivalent to one sachet (of 20g weight) in 1 litre of water.

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

Not classified as hazardous

2.2 Label elements

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

No labelling required

2.3 Other hazards
As with any cleaning product, prolonged and repeated contact may result in redness and drying of the skin.

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	Classification
Sodium Percarbonate	EC 239-707-6 CAS 15630-89-4	<1%	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

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. If irritation or discomfort occurs, seek medical advice.
INHALATION: If exposed to spray, move to area of fresh air. If any signs of adverse effect, obtain medical advice.
SKIN CONTACT: Wash skin 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 medical advice if signs of irritation, abdominal discomfort occur.

4.2 Most important symptoms and effects, both acute and delayed

EYE: May cause mild irritation and redness.
INHALATION: Inhalation of sprays may cause irritation of the respiratory tract (nose, throat), coughing.
SKIN: Like all cleaning products, may cause mild irritation, especially on prolonged or repeated contact.
INGESTION: May cause mild 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

This product contains an oxidiser but only at very low concentration. Avoid drying out and concentrating solutions. 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
Mop up spilled solution and rinse the spill area with clean water.

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 prolonged and repeated contact with skin and eyes. Use only in a well-ventilated location. Gloves and coveralls recommended if exposure is expected to be prolonged and repeated. 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 spray.

Respiratory protection
None required during normal handling.

Hand Protection
If prolonged or repeated contact is likely, then suitable chemical resistant gloves should be worn. PVC or natural rubber may be suitable, but glove manufacturer recommendations 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
Not normally required.

Skin protection
If prolonged or repeated contact is likely, then coveralls are 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: Clear solution

Odour: None
Odour threshold: Not applicable
pH: 7.4
Melting point: Not determined
Boiling point: Not determined
Flashpoint: None
Evaporation rate: Negligible
Flammability: Not flammable
Upper/lower flammability limits: Not applicable
Vapour pressure: Negligible
Vapour density: Not applicable
Relative density:
Solubility in water: Completely soluble
Solubility in other solvents: Not determined
Partition coefficient (log Kow): Not determined
Autoignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: Not applicable
Explosive properties: Not classified as explosive
Oxidising properties: Not classified as oxidising

9.2 Other information
None

SECTION 10: Stability and Reactivity

10.1 Reactivity
Not expected to present any reactive hazards.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
None expected under foreseeable conditions of use.

10.4 Conditions to avoid
Avoid extreme temperatures. Contains a low concentration of an oxidiser. Avoid concentrating or drying out the solution as this may increase the oxidising power.

10.5 Incompatible materials
Flammable and combustible materials, e.g. solvents, oils, paper, card.

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 Not expected to cause any adverse health effects.
(b) skin corrosion/irritation May cause mild irritation on prolonged or repeated exposure.
(c) serious eye damage/irritation May cause mild irritation.
(d) respiratory/skin sensitisation Contains no components known to be sensitising above thresholds of concern.
(e) germ cell mutagenicity Contains no components known to be mutagenic above thresholds of concern.

(f) carcinogenicity	Contains no components known to be carcinogenic above thresholds of concern.
(g) reproductive toxicity	Contains no components known to be toxic to reproduction above thresholds of concern.
(h) STOT-single exposure	Inhalation of spray may cause mild irritation to respiratory tract
(i) STOT-repeated exposure	None of the components are known to cause specific target organ toxicity effects.
(j) aspiration hazard	Not classified as hazardous for aspiration toxicity.

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 acutely toxic.

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 (<5 litres) of this material by flushing with plenty of water to foul drainage. 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	None	None	None

for user			
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:
This is a new SDS.

List of Abbreviations used in this SDS:

CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging Regulation (EC) no 1272/2008
EC European Community/Commission
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

R Phrases and H Statements used in Section 3

H272 May intensify fire, oxidiser
H302 Harmful if swallowed.
H318 Causes serious eye damage

Training requirements for workers
No special training requirements.