

SAFETY DATA SHEET

Diff-X disinfection sachet / tablets

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 / tablets
- 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**
3M Buckley Innovation Centre
Firth Street
Huddersfield
HD1 3BD
Tel: 01484 505 615
mail: mike.jepson@mtpinnovations.com
- 1.4 Emergency telephone number**
Tel. +44 (0) 1484 505 615(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

Oxidising Solid Cat. 2 H272 May intensify fire; oxidiser
Acute Toxicity. Cat. 4 H302 Harmful if swallowed
Eye Damage. Cat. 1 H318 Causes serious eye damage

Classification in accordance with the Dangerous Preparations Directive 1999/45/EC

Oxidising O; R8 Contact with combustible material may cause fire
Harmful Xn; R22 Harmful if swallowed
Irritant Xi; R41 Risk of serious damage to eyes

2.2 Label elements

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



Danger

H272 May intensify fire; oxidiser

H302 Harmful if swallowed

H318 Causes serious eye damage

P210 Keep away from heat.

P220 Keep/Store away from clothing/combustible materials.

P280 Wear protective gloves/protective clothing/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 Center or doctor/physician.

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.

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	40-60%	CLP 1272/2008: Ox. Sol. 2 H272; Acute tox. 4 H302; Eye Dam. 1 H318
			DSD 67/548/EEC O; R8; Xn; R22; Xi; R41
Citric Acid	EC 201-069-1 CAS 77-92-9	20-30%	CLP 1272/2008: Eye Irrit. 2 H319
			DSD 67/548/EEC Xi; R36

See section 16 for full description of R phrases and 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

This product contains an oxidiser and may intensify fires. Oxygen released in thermal decomposition may support combustion. Contact with combustible material may cause fire. 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 waste water treatment plants.

6.3 Methods and materials for containment and clearing up

Collect spilled sachets / tablets 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 handling 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 as 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

Suitable chemical resistant gloves. 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

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:	20g Sachets & 5g Sachets
Odour:	Low
Odour threshold:	Not applicable
pH:	Neutral
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:	Similar to water
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:	Classified as oxidising

9.2 Other information

None

SECTION 10: Stability and Reactivity

10.1 Reactivity

Oxidising substance which will intensify fire and may cause fire or explosion with combustible or flammable materials.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

May react violently with flammables causing fire and explosion.

10.4 Conditions to avoid

Avoid extreme temperatures.

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 | Expected to be harmful if ingested. Classified as Acutely Toxic Category 4 for ingestion. |
| (b) skin corrosion/irritation | . May cause mild irritation on prolonged or repeated exposure. |
| (c) serious eye damage/irritation | Expected to cause severe damage to eyes, with permanent damage if first aid is not swiftly applied |
| (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 dust or spray may cause 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 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

	ADR	IMDG	ICAO
14.1 UN Number	3378	3378	3378
14.2 UN Proper shipping name	SODIUM CARBONATE PEROXYHYDRATE	SODIUM CARBONATE PEROXYHYDRATE	SODIUM CARBONATE PEROXYHYDRATE
14.3 Transport hazard class(es)	5.1	5.1	5.1
14.4 Packing group	II	II	II
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:

Version 1.1 25 November 2013; comment added relating to use as a spray product

List of Abbreviations used in this SDS:

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation (EC) no 1272/2008
DSD	Dangerous Substances Directive 67/548/EEC
DPD	Dangerous Preparations Directive 1999/45/EC
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 and ESIS databases

Method used for classification of mixtures:

Ingredient based approaches

R Phrases and H Statements used in Section 3

R8 Contact with combustible material may cause fire
R22 Harmful if swallowed.
R36 Irritating to eyes.
R41 Risk of serious damage to eyes

H272 May intensify fire; oxidiser
H302 Harmful if swallowed.
H318 Causes serious eye damage
H319 Causes serious eye irritation.

Training requirements for workers

No special training requirements.