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 are 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:

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Percarbonate</td>
<td>EC 239-707-6 CAS 15630-89-4</td>
<td>40-60%</td>
<td>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</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>EC 201-069-1 CAS 77-92-9</td>
<td>20-30%</td>
<td>CLP 1272/2008: Eye Irrit. 2 H319 DSD 67/548/EEC Xi; R36</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>ADR</th>
<th>IMDG</th>
<th>ICAO</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN Proper shipping name</td>
<td>SODIUM CARBONATE PEROXYHYDRATE</td>
<td>SODIUM CARBONATE PEROXYHYDRATE</td>
<td>SODIUM CARBONATE PEROXYHYDRATE</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>5.1</td>
<td>5.1</td>
<td>5.1</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>II</td>
<td>II</td>
<td>II</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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.