

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier	
Product Name	Disifin Disinfectant Solution 0.5% (500ml Water)
Product Code(s)	N/a
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Identified use(s)	Biocide / Surface Disinfectant 0.5 % Solution (ready-to-use) Product is for professional use only. Must not be used by persons under the age of 18, except when adult supervision is available.
Uses advised against	Solution: Buffered <1% Tosylchloramide sodium trihydrate with stabilisers, baking soda, sea salt, Magnesium stearate (v) in Water None found
1.3 Details of the supplier of the Safety Data Sheet	
Company Identification	Disifin Hygiene UK Ltd Griffin Farm, The Old Dairy Conger Lane Toddington Bedfordshire, LU5 6BT +44 (0) 845 834 0267 cs@disifin.co.uk or marcos@disifin.co.uk
Telephone	
E-Mail (competent person)	
1.4 Emergency telephone number	
Emergency Phone No.	Advisory office in case of poisoning: UK Poison Centre: Tel: +44 (0) 8454 24 24 24 or NHS 111 – Visit www.toxbase.org National Poisons Information Service 0844 892 0111 (Medical professionals only . UK only) (London Centre) +44 20 7771 5307 - Visit www.npis.org National Chemical Emergency Centre (UK): 01865 407 333 (24 Hours) AkzoNobel Chemicals – Deventer, NL +31 570 679211 Global Incident Response Hotline (Access code: 333881) Europe: + 44 2035147487 North America: +1 866-519-4752 South America: +1 760-476-3962 Asia Pacific: +86-4001203572 Middle East / Africa: +1-760-476-3959 (0-24h) Australia: + 61 800 686 951 New Zealand: +64 800 451719 (0-24h)

2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture	
2.1.1	Regulation (EC) No. 1272/2008 (CLP)	Although there is no labelling required for this product, we nevertheless advise observation of safety recommendations.
2.2	Label elements	
2.2.1	Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
	Hazard Pictogram	None
	Signal word(s)	Not Applicable
	Hazard statement(s)	Preparation is not classified as hazardous in the sense of directive 1907/2006
	Precautionary statement(s)	P102: Keep out of reach of children. P264a: Wash hands and contaminated skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P310: Immediately call a POISON CENTRE or doctor/physician. P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405: Keep locked up.
2.3	Other hazards	None
2.4	Additional Information	None

3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008 (CLP*) – 0.5% Ready to use solution in 500ml water

Chemical ingredient(s)	%W/W	CAS No.	EC Index Number	EC Number	REACH Registration No.	Hazard pictogram(s) and Hazard statement(s)
Tosylchloramide sodium trihydrate (Chloramine-T)	<1%	7080-50-4	616-010-00-9	204-854-7	01-2120772085-53	Not applicable in preparation

3.3 Additional Information

* Note that these classifications refer to dissolved tablet in 500ml of water not the solid tablet.

Also listed as the anhydrous form (CAS No. 127-65-1), which is not commercially available. For full text of H/P phrases see section 16.

4: FIRST AID MEASURES



4.1 Description of first aid measures

General

Inhalation

Skin Contact

Eye Contact

Ingestion

Obtain medical attention immediately (show this safety data sheet).

Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure.

Remove contaminated clothing. Wash affected area with plenty of soap and water. Always seek medical advice. Launder clothing before re-use.

Rinse immediately with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Always seek medical advice.

When conscious, rinse mouth, give plenty of water to drink. DO NOT induce vomiting. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

May cause sensitization by inhalation and skin contact.

4.3 Indication of immediate medical attention and special treatment needed

Symptomatic treatment is advised.

5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish with dry chemical, foam, water spray, or carbon dioxide.

Unsuitable Extinguishing Media

None known.

5.2 Special hazards arising from the substance or mixture

N/a

5.3 Advice for fire-fighters

Fire-fighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA).

6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid contact with spilled material. Avoid dust formation. Avoid breathing dust. Avoid breathing vapours or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Wear suitable protective equipment. Refer to section 5 for fire-fighting; section 4 for first-aid advice; and section 8 for minimum requirements for personal protective equipment.

6.2 Environmental precautions

No special environmental measures are necessary.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material.

6.4 Reference to other sections

Section 1 for emergency contact. Section 8 for information on appropriate personal protective equipment.

6.5 Additional Information

N/a

7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Use product in accordance with good industrial practices for handling and storing of chemicals.
- 7.2 Conditions for safe storage, including any incompatibilities**
 Storage Temperature Store in a cool dry well-ventilated area. Keep container tightly closed.
 Storage Life 4 weeks once solution is made
 Incompatible materials Water vapour, acids.
- 7.3 Specific end use(s)** Biocide / Surface Disinfectant Solution 0.5% (Ready to use)

8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
-	-	-	-	-	-	-

- 8.1.2 Biological limit value** Not established
8.1.3 PNECs and DNELs Not established
8.2.1 Appropriate engineering controls Not established
8.2.2 Personal protection equipment
 Eye/face protection Wear chemical safety glasses with side shields, or splash-proof goggles



Skin protection (Hand protection/ Other)



Respiratory protection



- Thermal hazards
8.2.3 Environmental Exposure Controls

Any specific glove information provided is based on published literature and glove-manufacturer data. Contact the glove manufacturer for glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. Chemical resistant gloves are recommended. If contact with forearms is likely, wear gauntlet –style gloves. CEN standards EN 420 and EN 374 provide general requirements and list of glove types.

If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements. Types of respirator to be considered for this mixture include: dust mask (respirator with filter P2); half-face filter respirator; Type A filter material CEN standards EN136, EN140 and EN 405 provide respirator masks and EN 149 and EN 143 provide filter recommendations

None known
 See sections 6,7,12,13

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Liquid
	Colour	Light white
	Odour	Slight Chlorine after use
	Odour Threshold (ppm)	No data available
	pH (Value)	6,5 – 8,2 (1% solution)
	Melting Point (°C) / Freezing Point (°C)	Decomposes
	Boiling point/boiling range (°C):	~ 100
	Flash Point (°C)	Not applicable
	Evaporation rate (Butyl Acetate = 1)	No data available
	Flammability (solid, gas)	No data available
	Explosive limit ranges.	No data available
	Vapour Pressure (mm Hg)	No data available
	Vapour Density (Air=1)	No data available
	Density (g/ml ²⁰)	1,04
	Solubility (Water)	Soluble (150g/l at 25°C)
	Solubility (Other)	No data available
	Partition Coefficient (n-Octanol/water)	No data available
	Auto Ignition Temperature (°C)	No data available
	Decomposition Temperature (°C)	No data available
	Viscosity (mPa.s)	Not applicable
	Explosive properties	No data available
	Oxidising properties	Not oxidising at 0.5%
9.2	Other information	None

10: STABILITY AND REACTIVITY

10.1	Reactivity	See 10.4
10.2	Chemical stability	Stable under recommended storage and handling conditions (see section 7).
10.3	Possibility of hazardous reactions	See 10.4
10.4	Conditions to avoid	Contact with acids
10.5	Incompatible materials	acids.
10.6	Hazardous Decomposition Product(s)	Chlorine.

11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
11.1.1	Substances	
	Acute toxicity	Tosylchloramide sodium trihydrate Oral LD50 rat, mouse: approx. Not Available Inhalation LC50 rat: Not Available
	Irritation	Skin: Not Available Eye: Not Available No data available
	Corrosivity	No data available
	Sensitisation	May cause sensitization by inhalation and skin contact (Akzo Nobel E-file)
	Repeated dose toxicity	No data available
	Carcinogenicity	No data available
	Mutagenicity	Ames test: Not mutagenic
	Toxicity for reproduction	No data available
11.2	Other information	Subchronic (90 days) oral toxicity, rat: No Observed Effect Level 15 mg/kg/day.

12: ECOLOGICAL INFORMATION

12.1 Toxicity	Tosylchloramide sodium trihydrate Fish 96h-LC50 (Poecilia reticulata) : 31 mg/l (Akzo Nobel E-file). Daphnia 48h-EC50 : 4.5 mg/l (Akzo Nobel E-file) Readily biodegradable (at low concentrations). Not expected to bioaccumulate..
12.2 Persistence and degradability	
12.3 Bioaccumulative potential	Not expected to bioaccumulate..
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	No PBT or vPvB Components
12.6 Other adverse effects	None

13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods	Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. Empty containers retain residue and can be dangerous. Do not burn, or use a cutting torch on, the empty container. Dispose of in accordance with the European Directives on waste and hazardous waste. Waste must be classified and labelled prior to recycling or disposal. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.
13.2 Additional Information	Dispose of contaminated packaging according to local regulations.

14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID) UN number Proper Shipping Name Transport hazard class(es) Packing Group Hazard label(s) Environmental hazards Special precautions for user	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. None No Not applicable.
14.2 Sea transport (IMDG) UN number Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant Special precautions for user	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No Not applicable.
14.3 Air transport (ICAO/IATA) UN number Proper Shipping Name Transport hazard class(es) Packing Group Environmental hazards Special precautions for user	No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No Not applicable
14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable

15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	1907/2006 – REACH 1272/2008 – CLP 648/2004/EC - Detergents Regulations 528/2012 - Biocidal Products Regulations REACH Registration active ingredient: 01-2120772085-53-0000
15.1.1	EU regulations Authorisations and/or restrictions on use	Refer to EU regulation for details of any actions or restrictions by the above regulations or directives
15.1.2	National regulations	Refer to national regulation for details of any actions or restrictions by the above regulations or directives
15.2	Chemical Safety Assessment	A Chemical Safety Assessment has not been carried out for this mixture.

16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEL	Predicted No Effect Concentration
RCP	Reciprocal Calculation Procedure

References: Sources of information used in preparing this SDS included one or more of the following: results from in-house or supplier toxicology studies; publications from trade associations; ECHA publications; EU guidelines and other sources as appropriate

Hazard statement(s) and Precautionary statement(s)

P102: Keep out of reach of children.
P264a: Wash hands and contaminated skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P310: Immediately call a POISON CENTRE or doctor/physician.
P405: Keep locked up.

Additional Information

This Safety Data Sheet has been produced by d5 Consulting Limited on behalf of Disifin Hygiene UK Ltd, based on information supplied by the formulators of the product and is believed to be accurate and given in good faith, but it is for the users to satisfy themselves of the suitability of the product for their own particular purpose. d5 Consulting Limited and Disifin Hygiene UK Ltd, shall not be held liable for any damage resulting from handling or from contact with the above product. Disifin Hygiene UK Ltd and d5 Consulting Limited give no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law.