

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 med Surface Disinfectant Tablet

Product Code(s)

5081304374672 (EAN)

02510025 (25 Tabs) - 02510200 (200 Tabs)

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

Identified use(s)

Biocide / Surface Disinfectant.

Product is for professional use only.

Must not be used by persons under the age of 18, except when adult supervision is available.

None

Uses advised against

1.3 Details of the supplier of the Safety Data Sheet

Company Identification (Registered Office)

Disifin Hygiene UK Ltd
Griffin Farm, The Old Dairy
Conger Lane
Toddington
Bedfordshire,
LU5 6BT
+44 (0) 1582 797 744
cs@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)*

Acute Toxicity (oral) (Category 4)
 Respiratory Sensitization (Category 1)
 Skin Corrosion (Category 1B).

2.2 Label elements

2.2.1 Label elements

Hazard Pictogram

According to Regulation (EC) No. 1272/2008 (CLP)



Signal word(s)

DANGER

Hazard statement(s)

H302: Harmful if swallowed.
 H314: Causes severe burns and eye damage.
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

EUH031: Contact with acids liberates toxic gas.
 P102: Keep out of reach of children.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 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.
 P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
 P310: Immediately call a POISON CENTRE or doctor/physician.
 P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
 P321a: Specific treatment (see instructions on this label).
 P405: Keep locked up.
 P501: Dispose of contents/container to: hazardous waste site

None
 None

2.3 Other hazards

2.4 Additional Information

3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008 (CLP)*

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)	85-95	7080-50-4	616-010-00-9	204-854-7	01-2120772085-53-0000	Acute Tox. 4, H302 Skin Corr. 1B, H314 Resp. Sens. 1, H334

3.3 Additional Information

* Note that these classifications refer to the pure (100%) substances

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

Causes injury to the cornea and eyelids. Causes burns. 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

Unsuitable Extinguishing Media

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

None known.

5.2 Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions (hydrochloric acid (HCl), nitrous gases (NO_x), sulphur dioxide (SO₂)).

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

Do not allow to enter drains, sewers or watercourses.

6.3 Methods & material for containment & cleaning up

Absorb 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

None

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 No data available.
 - Incompatible materials Water vapour, acids.
- 7.3 Specific end use(s)** Biocide / Surface Disinfectant.

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)



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.

Respiratory protection



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

Thermal hazards

None known

8.2.3 Environmental Exposure Controls

See sections 6,7,12,13

9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Round Tablet
	Colour	White
	Odour	Slightly weak chlorine
	Odour Threshold (ppm)	No data available
	pH (Value)	8.0 – 10.3 (5% solution)
	Melting Point (°C) / Freezing Point (°C)	Decomposes
	Boiling point/boiling range (°C):	Not applicable
	Flash Point (°C)	192 (Pensky-Martens, closed cup)
	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 (kg/m ³)	1430
	Bulk Density (kg/m ³)	540-680
	Solubility (Water)	Soluble (150g/l at 25°C)
	Solubility (Other)	Ethanol (95%): 75g/l at 20°C
	Partition Coefficient (n-Octanol/water)	Log Pow = -1.3
	Auto Ignition Temperature (°C)	No data available
	Decomposition Temperature (°C)	120 -165°C
	Viscosity (mPa.s)	Not applicable
	Explosive properties	Not explosive
	Oxidising properties	Not oxidising
9.2	Other information	None

10: STABILITY AND REACTIVITY

10.1	Reactivity	See 10.4
10.2	Chemical stability	Stable under recommended storage conditions. (see section 7).
10.3	Possibility of hazardous reactions	See 10.4
10.4	Conditions to avoid	Unstable in contact with water vapour. Contact with acids liberates toxic gas.
10.5	Incompatible materials	Water vapour, 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. 1000 mg/kg (Akzo Nobel E-file) Inhalation LC50 rat: > 0.275 mg/l (4 hours) (max. attainable concentration) (Akzo Nobel E-file)
	Irritation	Skin Moistened powder: Corrosive (Akzo Nobel E-file) 8% solution: Non-irritating (Akzo Nobel E-file) Eye Moistened powder: Severely irritating (Akzo Nobel E-file) 8% solution: Moderately irritating (Akzo Nobel E-file) 0.5% solution: Non-irritating (Akzo Nobel E-file) No data available
	Corrosivity	May cause sensitization by inhalation and skin contact (Akzo Nobel E-file)
	Sensitisation	No data available
	Repeated dose toxicity	Contains no ingredient listed as a carcinogen.
	Carcinogenicity	Ames test: Not mutagenic (Akzo Nobel E-file)
	Mutagenicity	Micronucleus test: Not mutagenic (Akzo Nobel E-file)
	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)
12.2 Persistence and degradability	Readily biodegradable (at low concentrations)
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	3263
UN Proper Shipping Name	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (Tosylchloramide sodium trihydrate)
Transport hazard class(es)	8
Packing Group	III
Hazard label(s)	C8
Environmental hazards	No
Special precautions for user	Not applicable
Tunnel restriction code	E
14.2 Sea transport (IMDG)	
UN number	3263
UN Proper Shipping Name	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (Tosylchloramide sodium trihydrate)
Transport hazard class(es)	8
Packing Group	III
Marine Pollutant	No
Special precautions for user	Not applicable
EMS Number	F-A,S-B
14.3 Air transport (ICAO/IATA)	
UN number	3263
UN Proper Shipping Name	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (Tosylchloramide sodium trihydrate)
Transport hazard class(es)	8
Packing Group	III
Environmental hazards	No
Special precautions for user	Not applicable
14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	The freight does not take place as bulk goods, but as piece goods, therefore not applicable.

15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	(EC) No.1907/2006 & (EU) No.2015/830 - 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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and Regulation (EU) No. 2015/830

Hazard statement(s) and Precautionary statement(s)

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P321a: Specific treatment (see instructions on this label).
P405: Keep locked up.
P501: Dispose of contents/container to: hazardous waste site

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.