Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II

1. Identification of the substance / preparation and of the company

Identification of the substance or preparation

TOSIL hitec Disinfectant Tab

Use of the substance/preparation
Biocide
Disinfectant

Company/undertaking identification
Inoquest Labs Industries L.L.C.
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Dubai Industrial City
Dubai, United Arab Emirates
Tel. 00971 4 450 8696, Fax 00971 4 450 8697

Email adress of the competent person: oliver.balk@inoquestlabs.com, info@inoquestlabs.com

Emergency Telephone
Advisory office in case of poisoning:
Tel: 00971 4 4508696

Telephone number of the company in case of emergencies:
Tel: 00971 567342887

2. HAZARDS IDENTIFICATION

To people
See point 11 and 15
Preparation is classified as hazardous in the sense of directive 1999/45/EC.
22 Harmful if swallowed.
34 Causes burns
31 Contact with acids liberates toxic gas
42 May cause sensitization by inhalation.
Risk of serious damage to eyes.
Allergic reaction possible.
To the environment
See point 12.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name			
content%	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)		
Tosylchloramide Sodium, trihydrate			
90	Xn/C	22-31-34-42	204-854-7

For complete wording of the R-phrases, refer to point 16.

4. FIRST AID MEASURES

4.1 Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
Respiratory arrest - Artificial respiration apparatus necessary.

4.2 Eye Contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have data sheet available.

4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.2 Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately. Keep data sheet available.

4.5 Special resources necessary for first aid

n.c.

5. FIRE - FIGHTING MEASURES

5.1 Suitable extinguishing media

Adapt to the nature and extent of fire.
Water jet spray/foam/CO2/dry extinguisher

5.2 Extinguishing media which shall not be used for safety reasons

n.c

5.3 Special exposures hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:
Oxides of carbon
Oxides of sulphur
Oxides of nitrogen
Hydrogen chloride

5.4 Special protective equipment for fire-fighters

In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. And for personal protection refer to point 8.

6.1 Personal precautions

Avoid build up of dust.
Ensure sufficient supply of air
Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

If leakage occurs, dam up.
Prevent from entering drainage system.
Prevent surface and ground-water infiltration, as well as ground penetration.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

Collect mechanically and dispose of according to point 13.
Flush residue using copious water.
Avoid build up of dust.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1
Ensure good ventilation.
Avoid build up of dust.
Avoid inhalation, and contact with eyes or skin.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
Wash hands before breaks and at end of work.
Observe directions on label and instructions for use.
Use working methods according to operation instructions.
No contact with products of this type in case of allergies, asthma and chronic respiratory tract disorders.

7.2 Storage

Requirement for storage rooms and containers:

Store product closed and only in original packing.
Not to be stored in gangways or stair wells
Do not store with acids.
Do not use alkali sensitive materials.

Special storage conditions:

See point 10
Store in a dry place
Only store at temperatures from 15°C to 25°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

GB **Chemical name** general dust limit		Content %:
WEL-TWA: 10 mg/m3 (inhal. dust), 4 mg/m3 (respir. dust)	WEL-STEL: ----	-----
BMGV: ----	Other information: ---	
GB **Chemical name** Cellulose		Content %:
WEL-TWA: 10 mg/m3 (Cellulose, total inh. dust), 4 mg/m3 (Cellulose, respirable)	WEL-STEL: 20 mg/m3 (Cellulose, total inh. Dust)	-----
BMGV: ----	Other information: ---	
GB **Chemical name** Silica, amorphous		Content %:
WEL-TWA: 6 mg/m3 (total inh. dust), 2,4 mg/m3 (resp. dust)	WEL-STEL: ----	----
BMGV: ----	Other information: ---	
GB **Chemical name** Corn starch		Content %:
WEL-TWA: 10 mg/m3 (total inhalable dust), 4 mg/m3 (respirable dust)	WEL-STEL: ----	----
BMGV: ----	Other information: ---	

WEL-TWA = Workplace Exposure limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = “Arbeitsplatzgrenzwert” (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = “Biologischer Grenzwert”(biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
** = the exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.02 Exposure controls
8.2.1 occupational exposure controls
Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is sufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feeding stuff.
Respiratory protection:
If the general dust-limit is exceeded, breathing masks with fine-dust filters are necessary (EN 143).
Fine-dust filter with filter P2 (EN 143).
Hand protection: Chemical resistant protective gloves (EN 374).
If applicable
Rubber gloves (EN 374).
Protective gloves in butyl rubber (EN 374).
Protective Neopren gloves (EN 374).

Protective nitrile gloves (EN 374).
Protective hand cream recommended.
Eye protection:
Tight fitting protective goggles with side protection (EN 166).
If applicable
Face protection (EN 166)
Skin protection:
Protective working garments (e.g. safety shoes EN ISO 20345. Long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.
Selection made for preparations according to the best available knowledge and information on the ingredients.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environment exposure controls
n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Tablet
Colour:	White
Odour:	slightly, Chlorine
PH-value undiluted:	~ 8,0 - 10,3 (5%)
Boiling point/boiling range (C):	n.a.
Melting point/melting range (C):	Decomposition
Flash point (C:	192
Oxidising properties:	No
Minimum limit of explosion:	Not detected
Maximum limit of explosion:	Not detected
Vapour pressure:	Not detected
Density (g/ml):	Not detected
Water solubility:	150g/l/25°C
Solubility in oil / solvent:	75g/l/20°C, Ethanol
Partition coefficient (n-octanol/water):	log Pow 0,84 (calc) *
Viscosity:	n.a.

* Tosylchloramide sodium, trihydrate

10. STABILITY AND REACTIVITY

Condition to avoid
See point 7
Stable when handled and stored correctly.
Protect from humidity.
Heating
T > 60°C
Materials to avoid
Avoid contact with strong acids.
Avoid contact with strong oxidizing agents.
Hazardous decomposition products
See point 5.3
Contact with other products may produce dangerous chlorine gas.

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	See point 15.
Inhalation, LC50 rate inhal. (mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	See point 15.
Eye contact:	See point 15.

Delayed and chronic effects

Sensitization:	Yes (inhalation)
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

Further information
Classification according to calculation procedure.
The following may occur:
Corrosive burns on skin as well as mucous membrane possible.
Danger of blindness
On dust formation:
Irritation of the respiratory tract
In case of sensitive, concentration below the limit value may already result in asthmatic symptoms.
Ingestion:
Pain in the mouth and throat
Nausea
Oesophageal perforation
Gastric perforation

12. ECOLOGICAL INFORMATION

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	
Readily biodegradable (90%/28d)*	
Behaviour in sewage plants:	Prevent from entering drainage system.
Aquatic toxicity:	
Toxicity to fish:	
LC50 Poecilia reticulata 31 mg/l/96h *	
Toxicity to daphnia:	
EC50 Daphnia magna 4,5 mg/l/48h *	
Toxicity to algae:	
IC50 Chlorella pyrenoidosa 80 mg/l/144h *	
Ecological toxicity:	
Toxicity to bacteria:	
EC 10 Pseudomonas putida 10 mg/l*	
Accumulation:	n.av.

* Tosylchloramide sodium, trihydrate

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue
EC disposal code no:
The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)
07 04 13 solid wastes containing dangerous substances
Recommendation:
Pay attention to local and national official regulations
Do not dispose of with household waste.
E.g suitable incineration plant
E.g dispose at suitable refuse site.

13.2 for contaminated packing material
See point 13.1
Empty container completely.
Uncontaminated packaging can be recycled.
Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. TRANSPORT INFORMATION

General statements

UN-Number:	3263
Class/packing group:	8/III

UN 3263 CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (TOSYLCHLORAMIDE SODIUM, TRIHYDRATE)

Classification code:	C8
LQ:	24
Tunnel restriction code:	E

Transport by sea

IMDG- code:	8/III (class/packing group)
EmS:	F-A,S-B
Marine pollutant:	n.a

CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (TOSYLCHLORAMIDE SODIUM, TRIHYDRATE)

Transport by air

IATA:	8/III (class/secondary danger/packing group)

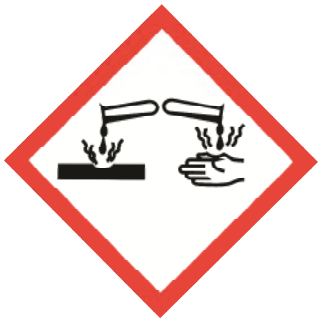
corrosive solid, basic, organic, n.o.s. (TOSYLCHLORAMIDE SODIUM, TRIHYDRATE)

Additional information:

Danger code and packing code on request.

15. REGULATORY INFORMATION

Classification according to Dangerous Product regulation incl. EC Directives (67/548/EEC and 1999/45/EC)



Symbols: C
Indications of danger:
Corrosive
R-phrases:
22 Harmful if swallowed
31 Contact with acids liberates toxic gas.
34 causes burns.
42 May cause sensitization by inhalation.
S- phrases:
(1/2) keep locked up and out of the reach of children.
7 Keep container tightly closed.
22 do not breathe dust.
26 in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Additions:
tosylchloramide sodium, trihydrate

Addition data acc. to art. 20(3), 1998/8/EC (Biocide products):
Use biocides safely. Always read the label and product information before use.
The identity of every active substance and its concentration in metric units:
90g/100ml
tosylchloramide sodium, trihydrate
The uses:
Disinfections

License No. Of the biocide (98/8/EC):
n.d.a
Observe restrictions: Yes
Observe youth employment law (German regulation).
Observe law on protection of expectant mothers (German regulation).
Observe restrictive guidelines 76/769/EEC, 1999/51/EC. 1999/77/EC
Observe Directive 1998/8/EC concerning the placing of biocidal products on the market.

16. OTHER INFORMATION

These details refer to the product as it is delivered.
Storage class VCI (Germany): 8 A L
Revised points: 3, 15
The following phrases represents the prescribed R-phrases /H-phrases (GHS) for the ingredients (designated in point 3).
22 Harmful if swallowed
31 Contact with acids liberates toxic gas.
34 causes burns.
42 May cause sensitization by inhalation.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked
WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (=time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40
AGW = “Arbeitsplatzgrenzwert” (workplace limit value, Germany) / BGW = “Biologischer Grenzwert” (biological limit value, Germany)
VbF = Regulations for flammable liquids (Austria)
WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water
VOC = Volatile organic compounds / AOX = Absorbable organic halogen compounds
VwVwS = Administrative Order relating to substances hazardous to water (Germany)
The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

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