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PRODUCT DATA SHEET

(This booklet incorporates the Specification and M.S.D.S.)

PRODUCT	STANNOUS CHLORIDE ANHYDROUS				
CAS NO.	7772-99-8				
TARIFF NO.	2827 3910				
U.N NO.	3260				
EINECS NO.	231-868-0				
IMCO CLASS					
HAZARDS CORROSIVE HARMFUL IF SWALLOWED CAUSES BURNS					
SPECIFICATION REFERENCE		STCHAN/1	DATE MAY 09		
REFERENCE NO.		STCHAN/1	DATE MAY 09		
PREVIOUS EDITION.			DATE		

PRODUCT SPECIFICATION				
Product Name	Stannous Chloride Anhydrous			
Alternative Name				
Product Grade				
CALEC ODECIFICATION				

SALES SPECIFICATION					
Product Data					
Chemical Formula	$SnCl_2$				
Molecular Weight	189.6 g/mol				
Density	$3.9 \text{ g/cm}^3 (20^{\circ}\text{C} = 293\text{K})$				
Bulk Density	1.9 kg/l approx				
Solubility	Soluble in diluted hydrochloric acids				
Delivery Form	Crystalline powder				
Colour	White				
Analysis	Specification	Typical			
SnCl ₂	99% min	≈ 99.5%			
Total Tin Content	62% min	≈ 62.3%			

 $\approx 0.2\%$

Application

Other Elements

Tetravalent Tin Content

<u>Electroplating Industry</u>: For metal surface treatment in high speed tin baths

< 0.3%

< 0.1%

<u>Chemical Industry</u>: For the production of tin chemicals

<u>Textile Industry</u>: For dyeing process

Storage

Stannous Chloride has a shelf life of min. 12 months if kept dry and tightly closed in the original packaging. It

should be protected against the light

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.

Tennants accepts no liability whatsoever (except as otherwise provided by law) arising out of the use of information supplied, the application, adaptation or processing of the products described herein, the use of other materials in lieu of Tennants materials or the use of Tennants materials in conjunction with such other materials.

Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product: Stannous Chloride Anhydrous

Use: Galvanic bath

COMPANY: TENNANTS DISTRIBUTION LIMITED

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Manchester Essex
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2. HAZARDS IDENTIFICATION

Hazard Designation

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C Corrosive

Particular Dangers For The product has been labelled due to the calculation procedure of the 'General

Man/Environment Classification Guideline for preparations of the EU' in the latest valid form

The classification was made according to EC lists, latest edition, company and

literature data R22 Harmful R34 Causes burns

Classification System The classification was made according to the EC lists, latest edition, company

and literature data have also been used Causes severe skin burns and eve damage

Danger Causes severe skin burns

Warning Harmful if swallowed

Prevention Do not breathe dust/fumes/gas/mist/vapours/spray. Wash thoroughly after

handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection

If swallowed: Call a poison centre or doctor/physician if you feel unwell

Response If swallowed: Call a poison centre or doctor/physician if you feel unwell

If swallowed: Rinse mouth. Do NOT induce vomiting

If on skin (or hair): Remove/take off immediately all contaminated clothing.

Rinse skin with water/shower

If inhaled: Remove to fresh air and keep at rest in a position comfortable for

oreathing

If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing Immediately call a poison centre or doctor/physician

Specific treatment (see label)

Rinse mouth

Wash contaminated clothing before reuse

Store locked up

Storage Dispose of contents/container in accordance with local/regional/national/

Disposal international regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterisation Tin(II)-chloride

DescriptionMixture of substances listed below and harmless substancesDangerous Components%CAS No.EINECS No.ClassificationStannous Chloride75 – 1007772-99-8231-868-0C, Xn; R22-34Additional InformationFor the wording of the listed risk phrases refer to Section 16

4. FIRST AID MEASURES

General Information Remove contaminated clothing. Symptoms of poisoning may even occur

after several hours; therefore medical observation for at least 48 hours after

the accident

After Inhalation Supply fresh air; consult doctor in case of symptoms

After Skin Contact Immediately wash with water and soap and rinse thoroughly. If skin irritation

continues, consult a doctor

After Eye Contact Rinse opened eye for several minutes under running water. Then consult

doctor

After Swallowing Drink large quantities of water, do not induce vomiting. Consult a physician

immediately

5	FIRE	FIGHTI	NG N	TEASI	IRES

Special Hazards Of The Material Can be released in case of fire: Halogen hydracids(s), tin oxide

Protective Equipment for Fire Fighting Wear self contained breathing apparatus

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Wear protective equipment. Keep unprotected persons away

Environmental Precautions Do not allow product to reach sewage system or water bodies. Do not allow to

enter ground/soil

Section 13. Ensure adequate ventilation

7. HANDLING AND STORAGE

Safe Handling Advice
Protection Against Fire & Explosion
Storage
No special measures required
No special measures required
No special measures required
Keep containers tightly sealed
Storage Class
8

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits 7772-99-9 Stannous Chloride

WEL Short Term Value: 4 mg/m³ Long Term Value 2 mg/m³ as Sn Additional Information

WEL Short Term Value: 4 mg/m³ Long Term Value 2 mg/m³ as Sn The lists that were valid during the compilation were used as a basis

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General Protective/Hygiene Measures Do not eat, drink or smoke when working. Take off immediately all

contaminated clothing. Wash hands during breaks and at the end of work.

Avoid contact with eyes and skin

Respiratory Protection In case of formation of vapours/dust: Filter P2

Hand Protection Rubber gloves. The glove material has to be impermeable and resistant to the

product/substance/preparation

Material Of Gloves Selection of the glove material on consideration of the penetration times, rates of

diffusion and the degradation

Penetration Time Of Glove Material The selection of the suitable gloves does not only depend on the material but also

on further marks of quality and varies from manufacturer to manufacturer. The exact break through time has to be found out by the manufacturer of the

protective gloves and has to be observed

Eye Protection Tightly sealed safety glasses

Body Protection Suitable clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Crystalline, colourless

Odour Odourless
Melting Point/Range ca. 247°C
Boiling Point/Range 623°C
Flash Point Not applicable

Self Inflammability Product is not self igniting
Danger Of Explosion Product is not explosive

Specific Gravity Not determined

Solubility In/Miscibility In Water at

20°C2700 g/lpH Value at 20°C2Solvent Content: Organic Solvents0.0%Solids Content100.0%

10. STABILITY AND REACTIVITY

Thermal Decomposition/Conditions To No o

Dangerous Products Of Decomposition

Be Avoided

No decomposition if used according to specifications

No dangerous decomposition products known

Dangerous Reactions Reacts with strong oxidising agents. Reacts with acids

11. TOXICOLOGICAL INFORMATION

Acute Toxicity 7772-99-8 Stannous Chloride

LD50 Oral Rat 700 mg/kg

Primary Irritant Effect

On The Skin Caustic effect on the skin and mucous membranes

On The Eye Strong caustic effect
Sensitisation No sensitising effect known

Additional Toxicological Information The product shows the following dangers according to the calculation method

of the General EC Classification Guidelines for Preparations are issued in the

latest version: Harmful. Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the

danger of perforation of oesophagus and stomach

12. **ECOLOGICAL INFORMATION**

General Notes Water hazard class 1 (German Regulation) (Self Assessment): Slightly

hazardous for water

Do not allow undiluted product or large quantities to reach ground water,

water bodies or sewage system

Must not reach sewage system or drainage ditch undiluted or unneutralised

DISPOSAL CONSIDERATIONS 13.

Must be specially treated in accordance with all local and national Recommendation For Product Disposal

regulations

Uncleaned Packaging Disposal must be made according to official regulations

Water, if necessary with cleaning agent Recommended Cleaning Agent

TRANSPORT INFORMATION 14.

ADR/RID

ADAR/RID-GGVS/E Class 8 (C2) Corrosive Substances

Kemler Number 80 3260 UN Number **Packaging Group** II Label

Designation Of Goods 3260 CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (stannous

chloride)

IMDG

IMDG Class 8 **UN Number** 3260 Label 8 **Packaging Group** П **EmS Number** F-A. S-B Marine Pollutant

Proper Shipping Name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (stannous chloride

anhydrous)

ICAO/IATA

ICAO/IATA Class 8 UN/ID Number 3260 Label **Packaging Group** II

Proper Shipping Name CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (stannous chloride

anhydrous)

UN3260, CORROSIVE SOLID, ACIDIC, INORGANIC N.O.S., 8, II UN 'Mode Regulation'

15. REGULATORY INFORMATION

The product has been classified and labelled in accordance with EC Designation According To EC Guidelines

C Corrosive

Directives/Ordinance on Hazardous Materials

Code Letter And Hazard Designation Of

The Product

Hazard Determining Components Of

Labelling Stannous Chloride R phrases R22 Harmful if swallowed

R34 Causes burns

S phrases S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S45 In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible)

S60 This material and its container must be disposed of as hazardous waste

National Regulations

Water Hazard Class Water hazard class 1 (self-assessment): slightly hazardous to water

16. OTHER INFORMATION

Relevant R Phrases

R22 Harmful if swallowed

R34 Causes burns