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Product Name: Tin metal granulated

CAS No.:7440-31-5

Version: 0

	00577					
	: 90577					
Company Name	Advent Chembio Private Limited					
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E-mail	: <u>info@adventchembio.co</u>	info@adventchembio.com				
WEBSITE	: <u>www.adventchembio.cc</u>	www.adventchembio.com				
Company Phone Number	: 022-27690837	022-27690837				
2. Composition/Information on	Ingredients					
Ingredient	CAS No	Percent				
TIN METAL GRANULATED	7440-31-5	100 %				
Hazard classification Labels elements Hazard symbol	: No symbol					
Labels elements Hazard symbol Signal word Hazard statement Precautionary statement Other hazards which do not res ³	WarningMay form combustNot Applicable.	stible dust concentrations in air.				
Labels elements Hazard symbol Signal word Hazard statement Precautionary statement Other hazards which do not rest in GHS classification 4. First Aid Measures	: Warning : May form combu : Not Applicable. ult : None.					
Labels elements Hazard symbol Signal word Hazard statement Precautionary statement Other hazards which do not res in GHS classification	 Warning May form combustion: Not Applicable. ult : None. Get medical advisor needed, have proof data sheet to the original sheet the original sheet to the original sheet to the original sheet to the original shee	ce/attention if you feel unwell. If medical advice is duct container or label at hand. Show this safety doctor in attendance.				
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Most important symptoms/effects, acute and delayed	:	May cause irritation to skin, eyes, and respiratory tract.
Indication of immediate medical attention and special treatment needed	:	Treat symptomatically.

5. Fire fighting measures		
General fire hazards	:	Powdered material may form explosive dust-air mixtures.
Suitable (and unsuitable) extinguishi	ing ı	nedia
Suitable extinguishing media	:	Dry sand, graphite powder, dry sodium chloride based extinguishers
Unsuitable extinguishing media	:	Water.
Specific hazards arising from the chemical	:	During fire, gases hazardous to health may be formed. Dust clouds may be explosive under certain conditions. Contact with strong oxidizers may cause fire.
Special protective equipment and pro-	ecai	itions for firefighters
Special fire fighting procedures Special protective equipment for fire-fighters	:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental Release Measures		
Personal precautions, protective equipment and emergency procedures Methods and material for containment and cleaning up Notification Procedures	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Use personal protective equipment. Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.



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7. Handling and Storage	
Precautions for safe handling	: Avoid generation and spreading of dust. Ground/bond container and receiving equipment. Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	: Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

8. Exposure Controls Personal Protection

Control parameters

Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
TIN	TWA	2 mg/m3	US. ACGIH Threshold Limit Values (2011)
TIN - as Sn	REL	2 mg/m3	US. NIOSH: Pocket Guide to Chemical
			Hazards (2010)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air
			Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	2 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000)
			(1989)

Appropriate engineering controls Individual protection measures, such a General information	: as] :	No data available. personal protective equipment Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection	:	Use tight fitting goggles if dust is generated.
Other Respiratory protection	:	Wear protective gloves. Wear suitable protective clothing. In case of inadequate ventilation use suitable respirator. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.



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9. Physical and Chemical Properties

Appearance	:	Silver Granules Solid.
Odor	:	Odorless
рН	:	No data available.
Melting point/freezing point	:	231.9 °C
Initial boiling point and boiling	:	2,507 °C
range		
Flash Point	:	Not applicable
Vapor pressure	:	0.13 kPa (1,609 °C)
Vapor density	:	No data available
Relative density	:	7.31
Solubility in water	:	Insoluble in water
Solubility (other)	:	No data available.
Formula	:	Sn
Molecular Weight	:	118.69 g/mol

10. Stability and Reactivity

Reactivity Chemical stability Possibility of hazardous reactions Conditions to avoid	: : :	No dangerous reaction known under conditions of normal use. Material is stable under normal conditions. Hazardous polymerization does not occur. Contact with incompatible materials. Heat, sparks, flames. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Acids. Halogens and halogenated compounds. Peroxides. Sulfur oxides . None known.

11. Toxicological Information

Information on likely routes of exposure

Ingestion	:	May cause irritation of the gastrointestinal tract.
Inhalation Skin contact Eye contact	: : :	May cause irritation to the respiratory system. May cause irritation. May cause temporary eye irritation
Information on toxicological effects		
Acute toxicity (list all possible routes	of e	exposure)
Oral Product	:	No data available.
Dermal Product	:	No data available
Inhalation Product	:	No data available



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Product Name: Tin metal granulated CAS No.:7440-31-5 Version: 0 **Repeated dose toxicity Product** No data available. • May cause skin irritation. Skin corrosion/irritation Product : Serious eye damage/eye irritation May irritate eyes. : Product **Respiratory or skin sensitization** Not a skin sensitizer. • Product **Carcinogenicity Product** This substance has no evidence of carcinogenic properties. : No carcinogenic components identified. IARC Monographs on the : **Evaluation of Carcinogenic Risks** to Humans DIOXANE **US. National Toxicology Program** : No carcinogenic components identified. (NTP) Report on Carcinogens DIOXANE **US. OSHA Specifically Regulated** No carcinogenic components identified. : Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity **In vitro Product** No mutagenic components identified. : No mutagenic components identified. **In vivo Product** : **Reproductive toxicity Product** No components toxic to reproduction. : No data available. Specific target organ toxicity -: single exposure Product Specific target organ toxicity -No data available. • repeated exposure Product **Aspiration hazard Product** Not classified. : **Other effects** None known. •

12. Ecological Information

Ecotoxicity		
Acute hazards to the aquatic environ	me	nt :
Fish Product	:	No data available.
Specified substance(s): TIN	:	LC 50 (Rainbow trout, donaldson trout (Oncorhynchus mykiss), 28
		d): > 0.17 - < 15.61 mg/l Mortality
Aquatic invertebrates Product	:	No data available
Chronic hazards to the aquatic enviro	onn	nent :
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Toxicity to Aquatic Plants Product:	:	No data available.
Persistence and degradability		
Biodegradation Product	:	The product is not readily biodegradable.
BOD/COD ratio Product	:	No data available.
Bioaccumulative potential		
Bioconcentration factor (BCF)	:	No data available on bioaccumulation.
Product		
Partition coefficient n-octanol /	:	No data available.

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water (log Kow) Product Mobility in soil Other adverse effects	 The product is water soluble and may spread in water systems. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
13. Disposal consideration	
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws.
Contaminated packaging	: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	Not regulated.				
IMDG	Not regulated.				
ΙΑΤΑ			Not regulated.		

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



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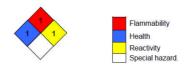
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16. Other Information

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date :01/08/2014

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