ACI SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Description:	**Tributyl-(3-trifluoromethyl-phenyl)-stannane**
Cat No:	**JM-15L-001**
CAS No:	**53566-38-4**

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

Recommended Use: Laboratory Chemicals
Uses advised against: No information available

Details of the supplier of the safety data sheet

Company
Advanced Chemical Intermediates Limited
The Old Dairy
Tresplatt
Davidstow
Cornwall
PL32 9YD
Tel: +44 (0) 1840 261451

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious Eye Damage/Eye irritation	Category 2
Reproductive Toxicity Category	Category 1B
Specific target organ toxicity - (repeated exposure)	Category 1

Label Elements

Signal Word **Danger**

Hazard Statements
H301 - Toxic if swallowed
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H360 - May damage fertility or the unborn child
H372 - Causes damage to organs through prolonged or repeated exposure
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements – EU (S28, 1272/2008)
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P273 - Avoid release to the environment

Additional EU labelling
Restricted for professional users

Other Hazards
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: **Tributyl-(3-trifluoromethyl-phenyl)-stannane**

CAS: **53566-38-4**

EC No:

4. FIRST AID MEASURES

Description of first aid measures

1. Description of first aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

Skin Contact Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.

Ingestion Do not induce vomiting. Call a physician or Poison Control Centre immediately.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Immediate medical attention is required. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Self-Protection of the First Aider Use personal protective equipment.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

5.1. Extinguishing media

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO2), Fumes, Gaseous hydrogen fluoride (HF), Fluorine, Metal.

5.3. Advice for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapours.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

Methods and material for containment and cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not breathe vapours or spray mist. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Wear personal protective equipment. Do not ingest

Conditions for Safe Storage, including and incompatibilities

Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

Use in laboratories

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Monitoring methods

MDHS 91 Metals and metalloids in workplace air by X-ray fluorescence spectrometry

MDHS 99 Metals in air by ICP-AES

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration

(PNEC)

Exposure Controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles (European standard - EN 166)

Hand Protection Protective gloves, Nitrile rubber ,Neoprene, Natural rubber, PVC

Skin and body protection Long sleeved clothing Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)
Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.
Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly
Large scale/emergency use
Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Organic gases and vapours filter Type A Brown conforming to EN14387
Small scale/Laboratory use
Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure
limits are exceeded or if irritation or other symptoms are experienced. Recommended half mask:- Valve filtering: EN405; or; Half mask: EN140; plus filter, EN 141 When RPE is used a face piece Fit Test should be conducted
Environmental exposure controls
Prevent product from entering drains. Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Pale yellow
Boiling Point/Range	
Melting Point/Range	
Flash Point	
Molecular Formula	C19H31F3Sn
Molecular Weight	435.14

10. STABILITY AND REACTIVITY

10.1. Reactivity
None known, based on information available
10.2. Chemical stability
Stable under normal conditions.
10.3. Possibility of hazardous reactions
Hazardous Polymerization Hazardous polymerization does not occur. Hazardous Reactions None under normal processing.
10.4. Conditions to avoid
Incompatible products. Excess heat.
10.5. Incompatible materials
Strong oxidizing agents.
10.6. Hazardous decomposition products
Carbon monoxide (CO). Carbon dioxide (CO2). Fumes. Gaseous hydrogen fluoride (HF). Fluorine. Metal

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects
Acute Toxicity

Product Information	Oral-Category 3, Dermal- Category 4, Inhalation-No data available
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in product
Sensitization	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available
Developmental Effects	No information available
Target Organs	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated
Endocrine Disruptor Information	None known

12. ECOLOGICAL INFORMATION

Toxicity
Eco-toxicity Effects
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate
Persistence and Degradability
The product includes heavy metals. Prevent release into the environment. Special
pretreatment required
Persistence based on information available, may persist. Degradation in sewage treatment plant
Contains substances known to be hazardous to the environment or not degradable in waste
water treatment plants
Bio-accumulative Potential
May have some potential to bioaccumulate
Mobility in Soil
The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils
Results of PBT and vPvB assessment
No data available for assessment..
Other adverse effects
Endocrine Disruptor Information
This product does not contain any known or suspected endocrine disruptors

Persistent Organic Pollutant
This product does not contain any known or suspected substance
Ozone Depletion Potential This product does not contain any known or suspected substance

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products

Should not be released into the environment. Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging
Dispose of this container to hazardous or special waste collection point.
European Waste Catalogue (EWC) According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information
Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not let this chemical enter the environment.

14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	2788
Hazard class	6.1 Sub Class P
Packing group	iii
Proper Shipping Name	ORGANOTIN COMPOUND, LIQUID, N.O.S

ADR

UN-No	2788
Hazard class	6.1
Packing group	iii
Proper Shipping Name	ORGANOTIN COMPOUND, LIQUID, N.O.S .

IATA

UN-No	2788
Hazard class	6.1
Packing group	iii
Proper Shipping Name	ORGANOTIN COMPOUND, LIQUID, N.O.S.

Environmental hazards
Dangerous for the environment Product is a marine pollutant according to the criteria set by IMDG/IMO.
Special precautions for user
No special precautions required.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable, packaged goods

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the substance or the mixture
International Inventories X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).
Chemical Safety Assessment
A Chemical safety assessment has not been carried out.
National Regulations
Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.
Take note of Dir 94/33/EC on the protection of young people at work
Take note of Dir 92/85/EC on the protection of pregnant and breastfeeding women at work
International Inventories

16. OTHER INFORMATION

Revision Date	09-Dec-2020
Version Number	1.0
Revision Summary	Not Applicable

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

Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.