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Revision Date: 17/04/2024 Revision #: 1

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Tris[4-(5-formyl-2-thienyl)phenyl]amine

Synonyms TTA-TPA, TFTPA, 5,5',5''-(Nitrillotris(benzene-4,1-diyl))tris(thiophene-2-

carbaldehyde)

Chemical Name Tris[4-(5-formyl-2-thienyl)phenyl]amine

Chemical Formula
C33H21NO3S3
CAS No.
883236-47-3
EC No.
Not available.
Index No.
Not available.
REACH Registration No.
Not applicable.

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

Identified Use(s) PC21 Laboratory chemicals, Research and development use only

1.3 Details of the supplier of the safety data sheet

Company Identification Ossila Limited
Address of Supplier Solpro Business Park

Windsor Street Sheffield

 Postal code
 \$4 7WB, UK

 Telephone:
 +441142999180

 E-mail
 info@ossila.com

 Office hours
 08:00 - 17:00

1.4 Emergency telephone number

Emergency Phone # +44 (0) 20 3885 0382 (CHEMTREC)

Other Regions	Emergency Phone Number (CHEMTREC)		
Europe, Middle East, Africa	+44 20 3885 0382		
North America	+1 703 527 3887		
Central America	+52 55 8526 4930		
South America	+55 11 4349 1359		
Asia, India, and Oceania	+65 3163 8374		

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Acute Tox. 4: Harmful if swallowed

Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation

2.2 Label elements

Product Name

According to Regulation (EC) No. 1272/2008 (CLP) 5-[4-[4-(5-formylthiophen-2-yl)-N-[4-(5-formylthiophen-2-

yl)phenyl]anilino]phenyl]thiophene-2-carbaldehyde

Hazard Pictogram(s)



GHS07

Signal Word(s) Warning

Hazard Statement(s) H302: Harmful if swallowed

H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statement(s) P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you

feel unwell. Rinse mouth.

P302 + P352: IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell.

P337 + P313: If eye irritation persists: Get medical advice/attention.

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2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2.4 Additional Information

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous ingredient(s) CAS N	lo. EC No.	%W/W	Hazard Statement(s)
Tris[4-(5-formyl-2- thienyl)phenyl]amine	6-47-3 Not available.		Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice First aiders should ensure they have taken adequate steps to protect themselves

from exposure (see Section 8 for recommended personal protection equipment)

Show this safety data sheet to the doctor in attendance.

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical

advice/attention if you feel unwell.

Skin Contact Rinse skin with water. If skin irritation occurs, get medical advice/attention.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Ingestion Rinse out mouth with water. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed, are included on

labelling (Section 2.2) and in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire. Unsuitable extinguishing media As appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Sulphur oxides

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Follow safe handling advice and personal protective equipment recommendations

(as per section 8). Provide adequate ventilation.

6.2 Environmental precautionsAvoid release to the environment.

6.3 Methods and material for containment and cleaning up

Sweep up spilled substance - avoid making dust. Use vacuum equipment for collecting spilt materials, where practicable. Dispose of contents in accordance with

local, state or national legislation.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-

ventilated area. Wear protective clothing as per section 8.

Hygiene measures Keep away from food and drink. Wash hands after handling, before breaks, and at

the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

Storage temperature 3-5 °C

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Storage life Product is air sensitive. Handle and store under inert gas.

Incompatible materials None known.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.

8.2 Exposure controls

8.2.1. Appropriate engineering controls Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection

Wear eye protection with side protection tested and approved under appropriate

government standards such as EN166 (EU).

Hand protection Handle with gloves. Gloves must be inspected prior to use and proper glove removal

techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Choose body protection in relation to its type, to the concentration and amount of

Body protection Choose body protection in relation to its type, to the concedangerous substances, and to the specific work-place.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-

face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a

backup to engineering controls.

Thermal hazards None known.

8.2.3. Environmental Exposure Controls Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State Solid: Powder. Colour Orange. Odour Not known. Odour threshold Not known. Melting point/freezing point 230°C Initial boiling point and boiling range Not known. Flammability Not known. Lower and upper explosion limit Not known. Flash Point Not known. Auto-ignition temperature (°C) Not known. Decomposition temperature (°C) Not known. Not known.

. Kinematic viscosity Not known. Solubility(ies) Solubility (Water): Not known. Solubility (Other): Not known.

Partition coefficient: n-octanol/water (log Not known.

value)

Vapour pressure Not known.

Density Not known.

Relative density Not known.

Relative vapour density Not known.

Particle characteristics Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

In the event of fire: see Section 5

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SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion No data available. Acute toxicity - Skin Contact No data available. Acute toxicity - Inhalation No data available. Skin corrosion/irritation No data available. Serious eye damage/irritation No data available. Skin sensitization data No data available. Respiratory sensitization data No data available. Germ cell mutagenicity No data available. Carcinogenicity No data available. Reproductive toxicity No data available Lactation No data available. STOT - single exposure No data available. STOT - repeated exposure No data available. Aspiration hazard No data available.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

None known.

11.2.2. Information on other hazards

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available. Toxicity - Aquatic invertebrates No data available. Toxicity - Fish No data available. Toxicity - Algae No data available. Toxicity - Sediment Compartment Not classified. Toxicity - Terrestrial Compartment Not classified. 12.2 Persistence and Degradation

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known. Not known.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative

(vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Not known.

12.7 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or

incinerator.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

IATA/IMO/RID/ADR Not classified as hazardous for transport.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Regulations - Authorisations and/or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation

Not listed

REACH: ANNEX XIV list of substances

Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the

Not listed

manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles

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Community Rolling Action Plan (CoRAP) Not listed Regulation (EC) N° 850/2004 of the Not listed

European Parliament and of the Council on persistent organic pollutants

Regulation (EC) N° 1005/2009 on Not listed substances that deplete the ozone layer

Regulation (EU) No 649/2012 of the European Parliament and of the Council concerning the export and import of

hazardous chemicals **National regulations**

Other 15.2 Chemical Safety Assessment

Not known.

A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Acronyms ADN: European Agreement concerning the International Carriage of Dangerous

Goods by Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous

Goods by Road

Not listed

CAS: Chemical Abstracts Service

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substances and mixtures DNEL: Derived No Effect Level EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

IATA: International Air Transport Association

IBC: Intermediate Bulk Container

ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods

LTEL : Long term exposure limit

PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted No Effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

STEL: Short term exposure limit STOT : Specific Target Organ Toxicity

UN: United Nations

vPvB: very Persistent and very Bioaccumulative

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