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Revision Date: 13/12/2023 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 1,3,5-Tris(3-fluoro-4-formylphenyl)benzene

Synonyms TFFPB, 3,3"-Difluoro-5'-(3-fluoro-4-formylphenyl)-[1,1':3',1"-terphenyl]-4,4"-

dicarbaldehyde

Chemical Name 1,3,5-Tris(3-fluoro-4-formylphenyl)benzene

Chemical Formula C27H15F3O3
CAS No. 2088007-04-7
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)	ergency 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

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name 3,3"-Difluoro-5'-(3-fluoro-4-formylphenyl)-[1,1':3',1"-terphenyl]-4,4"-dicarbaldehyde

Hazard Pictogram(s)



GH507

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 No.	EC No.	%W/W	Hazard Statement(s)
1,3,5-Tris(3-fluoro-4-	2088007-04-7	Not available.	≤ 100	Acute Tox. 4 H302
formylphenyl)benzene				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 Hydrogen fluoride

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 precautions**Avoid 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

skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Eye Protection

Body 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 dangerous 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 White. Odour Not known. Odour threshold Not known. Melting point/freezing point Not known. 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. рΗ Not known. Kinematic viscosity

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

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

alue)

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

12.7 Other adverse effects

Not known.

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

Not listed

High Concern for Authorisation REACH: ANNEX XIV list of substances

Not listed

subject to authorisation

REACH: Annex XVII Restrictions on the

manufacture, placing on the market and

use of certain dangerous substances,

mixtures and articles

Not listed

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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

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.

Not listed

Not listed

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

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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