

Revision Date: 10/11/2022 Revision #: 2

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 F4TCNQ

Synonyms F4-TCNQ, (2,3,5,6-Tetrafluoro-2,5-cyclohexadiene-1,4-diylidene)dimalononitrile,

 $7,7,8,8\hbox{-}Tetracy ano-2,3,5,6\hbox{-}tetrafluor oquino dimethane$ 

Chemical Name 2,3,5,6-Tetrafluoro-7,7,8,8-tetracyanoquinodimethane

Chemical Formula
CAS No.
29261-33-4
EC No.
Not Applicable
Index No.
Not Applicable
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. 3: Toxic if swallowed.

Acute Tox. 3: Toxic in contact with skin.

Acute Tox. 3: Toxic if inhaled

2.2 Label elements

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

Product Name F4TCNQ

Hazard Pictogram(s)



GHS06

Signal Word(s) Danger

Hazard Statement(s) H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled

Precautionary Statement(s) P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER/

doctor. Rinse mouth.

P302 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON

CENTER/doctor if you feel unwell

P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Call a POISON CENTER/ doctor.

#### 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.

ossila.com Page: 1 - 5



Revision Date: 10/11/2022 Revision #: 2

#### 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)
2,3,5,6-Tetrafluoro-7,7,8,8-	29261-33-4	Not	<100	Acute Tox. 3 H301
tetracyanoquinodimethane		Applicable		Acute Tox. 3 H311
				Acute Tox. 3 H331

# 3.2 Mixtures

Inhalation

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.

Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor/physician.

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.

Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. Ingestion

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) 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. Store locked up. Store

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

Storage temperature Ambient.

Stable under normal conditions. Storage life

Incompatible materials None known.

Page: 2 - 5 ossila.com

Ossila

Revision Date: 10/11/2022 Revision #: 2

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

Body protection

Wear eye protection with side protection tested and approved under appropriate

government standards such as EN166 (EU).

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.

None known.

Thermal hazards

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/Crystals.

Colour Brown/Yellow. Odour Not known. Odour threshold Not known. Melting point/freezing point 291 °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. Ηα 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.

Not known.

10.6 Hazardous decomposition products

In the event of fire: see Section 5

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# 11.1 Information on toxicological effects

Acute toxicity - Ingestion Toxic if swallowed.

ossila.com Page: 3 - 5

Ossila

Revision Date: 10/11/2022 Revision #: 2

Acute toxicity - Skin Contact Toxic in contact with skin.

Acute toxicity - Inhalation Toxic if inhaled. Skin corrosion/irritation Not classified. Serious eye damage/irritation Not classified. 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 Not classified.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

Toxicity - Aquatic invertebrates
Toxicity - Fish
Toxicity - Algae
Toxicity - Sediment Compartment
Toxicity - Terrestrial Compartment
Toxicity - Terrestrial Compartment

12.2 Persistence and Degradation

Not classified.
Not known.
Not known.
Not known.
Not known.

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

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**

14.1 UN number

UN No. 3439

**14.2 UN proper shipping name** UN proper shipping name

Nitriles, solid, toxic, n.o.s.

14.3 Transport hazard class(es)

ADR/RID 6.1
IMDG 6.1
IATA 6.1

14.4 Packing group
Packing group III

14.5 Environmental hazards

Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Maritime transport in bulk according to IMO instruments

Not known.

ossila.com Page: 4 - 5



Revision Date: 10/11/2022 Revision #: 2

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

Not listed

mixtures and articles

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) N° 649/2012 of the European Parliament and of the Council

Not listed

concerning the export and import of

hazardous chemicals **National regulations** 

Other

Not known.

15.2 Chemical Safety Assessment

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

Disclaimers Information contained in this publication or as otherwise supplied to Users is believed

to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Ossila Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Ossila Limited accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under

Patents, Copyright and Designs cannot be assumed.

ossila.com Page: 5 - 5