

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	2,4-Difluorobenzonitrile
Synonyms	-
Chemical Name	2,4-Difluorobenzonitrile
Chemical Formula	C7H3F2N
CAS No.	3939-09-1
EC No.	223-523-8
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sub	stance 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	S4 7WB, UK
Telephone:	+441142999180
E-mail	info@ossila.com

08:00 - 17:00

Telephone: E-mail Office hours **1.4 Emergency telephone number** Emergency Phone

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	

+44 (0) 20 3885 0382 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or Regulation (EC) No. 1272/2008 (CLP)	mixture Acute Tox. 4: Harmful if swallowed. Acute Tox. 4: Harmful in contact with skin. Acute Tox. 4: Harmful if inhaled 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	2,4-Difluorobenzonitrile
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled 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 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor if you feel unwell. P304 + P340 + P312: If INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



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

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

Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)	
2,4-Difluorobenzonitrile	3939-09-1	223-523-8	≤ 100	Acute Tox. 4 H302 Acute Tox. 4 H312 Acute Tox. 4 H332 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)
Inhalation	Show this safety data sheet to the doctor in attendance. Remove person to fresh air and keep comfortable for breathing. Get medical
Skin Contact	advice/attention if you feel unwell. 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
_)0 0011401	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 ef	fects, 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 medi	cal attention and special treatment needed
	Treat symptomatically.
SECTION 5: FIREFIGHTING MEASUR	ES
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	
	Carbon oxides
	Hydrogen fluoride
	Nitrogen oxides (NOx)
5.3 Advice for firefighters	č
-	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 contain	
	Sweep up spilled substance - avoid making dust. Use vacuum equipment for
	collecting spilt materials, where practicable. Dispose of contents in accordance with
C. 4. Defenses to other coefficies	local, state or national legislation.
6.4 Reference to other sections	See Alex Section 8, 12
	See Also Section 8, 13.
SECTION 7: HANDLING AND STORAG	ЭЕ
7.1 Precautions for safe handling	
Advice on safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-
. at so on our nanding	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.



SAFETY DATA SHEET

7.2 Conditions for safe storage, including any incompatibilities		
-	Store in a well-ventilated place. Keep container tightly closed.	
Storage temperature	Ambient.	
Storage life	Stable under normal conditions.	
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/P	ERSONAL 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.	
Body protection	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

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9.1	Information of	on basic	pnysicai	and chemica	al properties

9.1 information on basic physical and	chemical properties
Physical State	Solid: Powder.
Colour	White/Off-White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	47-49 °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.
pH	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 reaction	
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produce	
	In the event of fire: see Section 5



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effect	ts
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	
	Not known.
12.3 Bioaccumulative potential	
	Not known.
12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB asse	
	This substance/mixture contains no components considered to be either persistent
	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative
10.0 Endoaring discusting properti	(vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properti	es Not known.
12.7 Other adverse effects	NOT KHOWH.
12.7 Other adverse enects	Not known.
SECTION 13: DISPOSAL CONSIDER	RATIONS
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 b
	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 INFORM	IATION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFOR	
15.1 Safety, health and environmer	ntal regulations/legislation specific for the substance or mixture
European Regulations - Authorisatio	
Candidate List of Substances of Very	
High Concern for Authorisation	

 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
 Not listed

 REACH: ANNEX XIV list of substances
 Not listed

 subject to authorisation
 Not listed

 manufacture, placing on the market and
 Not listed

 use of certain dangerous substances,
 mixtures and articles



Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants	Not listed Not listed
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 : Internediate 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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