

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	trans-3,4-Difluorocinnamic acid
Synonyms	(2E)-3-(3,4-Difluorophenyl)acrylic acid
Chemical Name	(2E)-3-(3,4-Difluorophenyl)-prop-2-enoic acid
Chemical Formula	C9H6F2O2
CAS No.	112897-97-9
EC No.	Not available.
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	v data sheet
Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
	Windsor Street
	Sheffield

S4 7WB, UK +441142999180 info@ossila.com 08:00 - 17:00

Postal code

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 of Regulation (EC) No. 1272/2008 (CLP)	r mixture 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) trans-3,4-Difluorocinnamic acid
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statement(s)	 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.
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				<u> </u>
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
(2E)-3-(3,4-Difluorophenyl)-	112897-97-9	Not available.	≤ 100	Skin Irrit. 2 H315
prop-2-enoic acid				Eye Irrit. 2 H319
				STOT SE 3 H335
3.2 Mixtures				
Not applicable.				
Not applicable.				
SECTION 4: FIRST AID MEAS	SURES			
4.4. Description of first aid m				
4.1 Description of first aid m General Advice		aidore chould once	ro thou have take	en adequate steps to protect themselves
General Advice				nended personal protection equipment)
		this safety data sl		
Inhalation				mfortable for breathing. Get medical
		e/attention if you fe		inionable for breatining. Get medicar
Skin Contact				curs, get medical advice/attention.
Eye Contact				ninutes. Remove contact lenses, if present
, >0		easy to do. Continu		
Ingestion				advice/attention if you feel unwell.
4.2 Most important sympton				
				oth acute and delayed, are included on
		ling (Section 2.2) a		
4.3 Indication of any immedi				
-		t symptomatically.		
		-		
SECTION 5: FIREFIGHTING	MEASURES			
5.1 Extinguishing media				
Suitable Extinguishing media	As a	opropriate for surro	unding fire.	
Unsuitable extinguishing media		opropriate for surro		
5.2 Special hazards arising f			5	
		on oxides		
	Hydr	ogen fluoride		
5.3 Advice for firefighters		•		
_	Fire f	ighters should wea	r complete prote	ctive clothing including self-contained
	breat	hing apparatus.		
		IDEC		
SECTION 6: ACCIDENTAL R	ELEASE MEASU	IRES		
6.1 Personal precautions, pr	otective equipm	ent and emergen	cy procedures	
				al protective equipment recommendations
		er section 8). Provi		
6.2 Environmental precaution		,		
-	Avoid	d release to the env	vironment.	
6.3 Methods and material for	r containment a	nd cleaning up		
				ing dust. Use vacuum equipment for
				ble. Dispose of contents in accordance with
		, state or national le	egislation.	
6.4 Reference to other section				
	See	Also Section 8, 13		
SECTION 7: HANDLING AND	STORAGE			
	SIGNAGE			
7.1 Precautions for safe han	•			
Advice on safe handling				vith skin and eyes. Use only in a well-
		lated area. Wear p		
Hygiene measures			nd drink. Wash ha	ands after handling, before breaks, and at
	the e	nd of workday.		-
7.2 Conditions for safe stora			S	
				ntainer tightly closed.
Storage temperature	3-5 °			U V U U
Storage life		e under normal co	nditions.	
Incompatible materials		e known.		
7.3 Specific end use(s)				
- • •	Apar	t from the uses me	ntioned in sectior	1.2 no other specific uses are stipulated
	Араг			



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

81	Control	parameters
0.1	CONTROL	טמו מוווכנכו ס

8.1.1 Occupational Exposure Limits

No Occupational Exposure Limit assigned.
Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.
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.
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.
Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and	
Physical State	Solid: Powder.
Colour	White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	194 – 196 °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.
рН	Not known.
Kinematic viscosity	Not known.
Solubility(ies)	Solubility (Water): Not known.
	Solubility (Other): Not known.
Partition coefficient: n-octanol/water (log value)	Not known.
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 REACTIV	/ITY

10.1 Reactivity	
•	None anticipated.
10.2 Chemical Stability	
	Stable under recommended storage conditions.
10.3 Possibility of hazardous read	tions
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition pr	
	In the event of fire: see Section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effe	cts
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. No data available.
Reproductive toxicity 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.
	None known.
SECTION 12: ECOLOGICAL INFORMA	IION
12.1 Toxicity	
	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish	No data available.
Toxicity - Algae	No data available. Not classified.
Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	างป ปลออกเซน.
12.2 Tersistence and Degradation	Not known.
12.3 Bioaccumulative potential	
	Not known.
12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB assess	
	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	
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concerning the export and import of hazardous chemicals **National regulations** Other **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:

Not known.

LEGEND

Disclaimers

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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