

# 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	4-Chloro-3-fluoroaniline
Synonyms	4-Chloro-3-fluorophenylamine, 4-chloro-3-fluorobenzenamine
Chemical Name	4-Chloro-3-fluoroaniline
Chemical Formula	C6H5CIFN
CAS No.	367-22-6
EC No.	206-683-3
Index No.	Not Applicable
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sub	stance or mixture and uses advised against
1.2 Relevant lucitation uses of the suc	stance of finkture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only
	PC21 Laboratory chemicals, Research and development use only
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only
Identified Use(s) 1.3 Details of the supplier of the safety	PC21 Laboratory chemicals, Research and development use <i>only</i> <i>y</i> data sheet
Identified Use(s) <b>1.3 Details of the supplier of the safety</b> Company Identification	PC21 Laboratory chemicals, Research and development use <i>only</i> / data sheet Ossila Limited
Identified Use(s) <b>1.3 Details of the supplier of the safety</b> Company Identification	PC21 Laboratory chemicals, Research and development use <i>only</i> <b>/ data sheet</b> Ossila Limited Solpro Business Park
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# **SECTION 2: HAZARDS IDENTIFICATION**

<b>2.1 Classification of the substance or</b> Regulation (EC) No. 1272/2008 (CLP)	<b>mixture</b> Acute Tox. 4: Harmful if swallowed Acute Tox. 3: Toxic in contact with skin. Acute Tox. 3: Toxic 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	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 4-Chloro-3-fluoroaniline
Hazard Pictogram(s)	GHS06
Signal Word(s)	Danger
Hazard Statement(s)	H302: Harmful if swallowed H311+H331: Toxic in contact with skin or if inhaled H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statement(s)	<ul> <li>P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.</li> <li>P302 + P352: IF ON SKIN: Wash with plenty of water.</li> <li>P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor.</li> </ul>



P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 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)	
4-Chloro-3-fluoroaniline	367-22-6	206-683-3	≤100	Acute Tox. 4 H302	
				Acute Tox. 3 H311	
				Acute Tox. 3 H331	
				Skin Irrit. 2 H315	
				Eye Irrit. 2 H319	
				STOT SE 3 H335	

**3.2 Mixtures** Not applicable.

SECTION 4: FIRST AID MEASUR	ES
4.1 Description of first aid meas	ures
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. If not breathing give artificial respiration. Call a POISON CENTER or doctor/physician.
Skin Contact	Wash with soap and flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a POISON CENTER or doctor/physician.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell.
Ingestion	Rinse out mouth with water. Get medical advice/attention if you feel unwell.
4.2 Most important symptoms a	nd 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 Unsuitable extinguishing media	As appropriate for surrounding fire. As appropriate for surrounding fire.
5.2 Special hazards arising from the s	ubstance or mixture
	Carbon oxides
	Nitrogen oxides (NOx)
	Hydrogen fluoride
	Hydrogen chloride gas
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 containr	nent 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 wellventilated 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. 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/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 Wear eye protection with side protection tested and approved under appropriate Eye Protection government standards such as EN166 (EU). Handle with gloves. Gloves must be inspected prior to use and proper glove removal Hand protection 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. Where risk assessment shows air-purifying respirators are appropriate use a full-Respiratory protection face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a

 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/Crystals.
Colour	Grey.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	58-62 °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 REACTI	VIIY

#### 10.1 Reactivity

None anticipated.

# 10.2 Chemical Stability

Stable under recommended storage conditions.



	Not known.
10.4 Conditions to avoid	Netknown
10.5 Incompatible materials	Not known.
-	Not known.
10.6 Hazardous decomposition produ	In the event of fire: see Section 5
SECTION 11: TOXICOLOGICAL INFOR	RMATION
11.1 Information on toxicological effe	cte
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.
	No data available.
STOT - single exposure	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	No data available.
<b>11.2 Information on other hazards</b> 11.2.1 Endocrine disrupting properties	
11.2.2. Information on other hazards	None known.
	None known.
SECTION 12: ECOLOGICAL INFORMA	TION
12.1 Toxicity	
-	No data available.
Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known.
Toxicity - Algae	Not known.
Toxicity - Sediment Compartment	Not known.
Toxicity - Terrestrial Compartment 12.2 Persistence and Degradation	Not known.
12.3 Bioaccumulative potential	Not known.
12.0 Bloaddallalaire 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	Not known.
SECTION 13: DISPOSAL CONSIDERA	
CLOTION 10. DIGI OGAL CONSIDERA	
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 INFORMAT	
14.1 UN number	
UN No.	2811
14.2 UN proper shipping name	
	Tavia salid annania n a a (4 Oblana 9 fluanaanilina)
UN proper shipping name	Toxic solid, organic, n.o.s. (4-Chloro-3-fluoroaniline)



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.

## 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 Not listed manufacture, placing on the market and use of certain dangerous substances, 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) Nº 1005/2009 on Not listed substances that deplete the ozone layer Not listed Regulation (EU) N° 649/2012 of the European Parliament and of the Council 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
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