

# **MATERIAL SAFETY DATA SHEET (MSDS)**

**SECTION 1: Identification** 

1.1 Product identifiers

Product Name: 2,5-Difluoroaniline

Cat No.: A10272 CAS No.: 367-30-6

1.2 Relevant identified uses of the substance or mixture and uses advised against

**Recommended uses:** Laboratory chemicals

**Uses advised against:** Food, drug, pesticide or biocidal product use.

1.3 Details of the supplier of the safety data sheet

**Company:** Krishna Solvechem Limited.

B/503, Sahayog, S. V. Road,

Kandivali (West), Mumbai – 400067. India.

**Telephone:** +91-22-6123 0222

**Email:** exports@kscl.co.in

1.4 Emergency telephone number

**Emergency Phone :** +91-8657457330

# **SECTION 2: Hazards identification**

#### 2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

125 CI IX 1510:1200/		
Flammable liquids	(Category 4)	
Acute oral and dermal toxicity	(Category 4)	
Skin Corrosion/Irritation	(Category 2)	
Serious Eye Damage/Eye Irritation	(Category 2)	
Specific target organ toxicity (single exposure)	(Category 3)	
Target Organs - Respiratory system.		

#### 2.2 Label elements

Pictogram:



Signal word Warning

Hazard statement (s) Harmful if swallowed, in contact with skin or if inhaled



Causes skin irritation
Causes serious eye irritation
Combustible liquid
May cause respiratory irritation

Precautionary statement (s)

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep cool

#### Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

#### IF ON SKIN (or hair):

If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

#### Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention **Ingestion:** 

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

#### Fire

In case of fire: Use CO2, dry chemical, or foam for extinction **Storage:** 

Store locked up Store in a well-ventilated place.

Keep container tightly closed



Disposal:

Dispose of contents/container to an approved waste disposal

plant

Hazards not otherwise classified (HNOC)

None identified

# **SECTION 3: Composition / information on ingredients**

#### 3.1

Component	CAS-No	Weight %		
2,5-Difluoroaniline	367-30-6	99		

## **SECTION 4: First aid measures**

4.1 Description of first aid meas
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**If inhalation :** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Get medical attention if symptoms occur.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Get medical attention.

Ingestion: Clean mouth with water. Get medical attention

**4.2 Most important symptoms** Inhalation of high vapor concentrations may cause symptoms

and effects: like headache, dizziness, tiredness, nausea and vomiting

**4.3 Notes to Physician :** Treat symptomatically

# **SECTION 5: Firefighting effects**

### 5.1 Extinguishing media

Suitable extinguishing media Water spray, carbon dioxide (CO2), dry chemical, alcohol-

resistant foam.

**Unsuitable Extinguishing** 

Media::

No information available

**5.2** Flash Point : 68 °C / 154.4 °F

**Method:** No information available



**Autoignition Temperature:** 

No information available

No information available

No information available

**Explosion Limits:** 

No data available **Upper** No data available Lower

**Sensitivity to Mechanical** 

**Sensitivity to Static** 

**Impact** 

Discharge

**Specific Hazards Arising from** 

the Chemical:

Combustible material. Flammable.

**Hazardous Combustion** 

**Products:** 

Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen

oxides(NOx). Gaseous Hydrogen fluoride (HF)

5.4 **Protective Equipment and** 

**Precautions for Firefighters:** 

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

NFPA:

Health	Flammability	Instability	Physical hazards
2	1	0	N/A

#### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

#### 6.2 **Environmental precautions**

See section 12 for additional Ecological Information

#### 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Prevent product from entering drains. Keep in suitable, closed containers for disposal. Provide adequate ventilation. Do not flush into surface water or sanitary sewer system.

# **SECTION 7: Handling and storage**

#### 7.1 **Precautions for safe handling**

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe mist/vapors/spray. Handle product only in closed system or provide appropriate exhaust ventilation. Use only in well-ventilated areas.



### 7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep away from heat, sparks and flame.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### **Engineering Measures**

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

### 8.2 Exposure controls

### Personal protective equipment -

# Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

### Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### **Respiratory protection**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European StandardEN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice..

	SECTION 9: Physical and chemical properties				
9.1	Information on basic physical and chemical properties				
	a) Appearance Brown Liquid				
	b) Odour Organic				
	c) Odour Threshold No information available				
	d) pH	No information available			
	e) Melting point / freezing point	13 - 14 °C / 55.4 - 57.2 °F			
	f) Initial boiling point and	176 - 178 °C / 348.8 - 352.4 °F @ 760 mmHg			



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boiling range	
g) Flash point	68 °C / 154.4 °F
h) Evaporation rate	No information available
i) Flammability (solid, gas)	Not applicable
j) Upper/lower	No data available
flammability or	No data available
explosive limits	
k) Vapour pressure	No information available
I) Vapour density	4.45
m) Specific Gravity	1.288
n) Solubility	No information available
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	No information available
q) Decomposition temperature	No information available
r) Viscosity	No information available
s) Molecular formula	C6 H5 F2 N
t) Molecular Weight	129.11

	SECTION 10: Stability and Reactivity					
10.1	Reactive Hazard :	None known, based on information available				
10.2	Chemical stability:	Stable under normal conditions.				
10.3	Possibility of hazardous reactions :	None under normal processing.				
10.4	Conditions to avoid:	Incompatible products.				
10.5	Incompatible materials:	Acids, Strong bases, Strong reducing agents, Acid anhydrides, Acid chlorides, Chloroformates				
10.6	Hazardous decomposition products:	Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Gaseous Hydrogen fluoride (HF)				
10.7	Hazardous Polymerization	Hazardous polymerization does not occur				



# **SECTION 11: Toxicological information**

11.1

Information on toxicological effects

**Acute toxicity:** 

**Product Information:**No acute toxicity information is available for this

product

**Component Information** 

Toxicologically Synergistic Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Irritation:** No information available

Sensitization: No information available

**Carcinogenicity:** The table below indicates whether each agency ha

Any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
2,5-Dfluoro	367-30-	Not listed	Not	Not listed	Not listed	Not listed
aniline	6		listed			

Mutagenic Effects:	No information available.
Reproductive Effects:	No information available.
Developmental Effects:	No information available.
Teratogenicity:	No information available.
STOT - single exposure :	Respiratory system
STOT - repeated exposure:	None known
Aspiration hazard :	No information available.
Symptoms / effects,both acute and delayed:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information :	No information available
Other Adverse Effects :	The toxicological properties have not been fully investigated.



	SECTION 12: Ecological information					
12.1 Ecoto	xicity:	Do not empty into drains.				
12.2	Persistence and degradability:	No information available				
	Bioaccumulation/ Accumulation	No information available				
12.3	Mobility:	No information available				

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

# **SECTION 14: Transport information**

**14.1 UN number:** 

DOT: UN2941 TDG: UN2941 IATA: UN2941 IMDG: UN2941

14.2 UN proper shipping name

DOT: **FLUOROANILINES** TDG: **FLUOROANILINES** IMDG: **FLUOROANILINES** IATA: **FLUOROANILINES** 14.3 Transport hazard class(es) ADR/RID: 3 IMDG: 3 IATA: 3 14.4 Packaging group: ADR/RID: II IMDG: II IATA: II

# **SECTION 15: Regulatory information**

## 15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
2,5-Difluoro aniline	367-30- 6	-	-	-

Legend:



**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### **International Inventories:**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
2,5-Difluoro aniline	367-30- 6	-	-	206-690-1	-	-	-	Х	-

#### **U.S. Federal Regulations**

Not applicable **SARA 313** 

See section 2 for more information SARA 311/312 Hazard Categories

**CWA (Clean Water Act)** Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

**Health Administration** 

Not applicable

This product does not contain any Proposition 65

**CERCLA** Not applicable

**California Proposition 65** 

chemicals.

## **15.2** U.S. State Right-to-Know Regulations:

Not applicable

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Ν **DOT Marine Pollutant** DOT Severe Marine Pollutant N



**U.S. Department of Homeland** - This product does not contain the any DHS Chemicals. **Security** 

#### **Other International Regulations**

Mexico – Grade No information available

#### **SECTION 16: Other information**

**16.1 Prepared By:** Regulatory affairs

Krishna Solvechem

Limited

**Email:** exports@kscl.co.in

**Revision Date:** 24-Mar-2023 **Print Date:** 24-mar-2023

**Revision Summary:** This document has been updated to comply with the US OSHA

HazCom 2012 Standard replacing the current legislation under29 C F R 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

#### 16.2 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.