

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name: 2,4-Difluorobenzylamine

Cat No.: AC305660000; AC305660010; AC305660050; AC305660250

CAS No.: 72235-52-0

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)

Flammable liquids	(Category 4)
Skin Corrosion/Irritation	(Category 1 B)
Serious Eye Damage/Eye Irritation	(Category 1)

2.2 Label elements

Pictogram:



Signal word Danger

Hazard statement (s) Causes severe skin burns and eye damage



Combustible liquid

Precautionary statement (s)

Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

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

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: Rinse mouth. Do NOT induce vomiting

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: Co	mposition / information on	ingredients			
3.1						
	Component	CAS-No	Weight %			
2	,4-Difluorobenzylamine	72235-52-0	98			
	SE	CTION 4: First aid measures				
4.1	Description of first aid measur	res				
	If inhalation :	breathing, give artificial respira	ed or inhaled the substance; give d of a pocket mask equipped proper respiratory medical			
	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:	Do NOT induce vomiting. Call a center immediately	physician or poison control			
4.2	Most important symptoms and effects :	Difficulty in breathing. Causes be Symptoms of overexposure mar- tiredness, nausea and vomitings material. Use of gastric lavage of Possible perforation of stomach investigated: Ingestion causes se damage to the delicate tissue a	y be headache, dizziness, Product is a corrosive or emesis is contraindicated. n or esophagus should be evere swelling, severe			
4.3	Notes to Physician:	Treat symptomatically				
	SEC	CTION 5: Firefighting effects				
5.1	Extinguishing media					
	Suitable extinguishing media :	Water spray, carbon dioxide (Coresistant foam. Water mist may containers.	• •			
	Unsuitable Extinguishing Media: :	No information available				

68 °C / 154.4 °F

No information available

5.2

Flash Point:

Method:



Autoignition Temperature:

No information available

Explosion Limits:

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

Sensitivity to Mechanical

Impact

No information available

Sensitivity to Static No information available

Discharge

the Chemical:

Specific Hazards Arising from Combustible material. Flammable. Containers may explode

when heated.

Hazardous Combustion

Products:

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

Hydrogen fluoride (HF). Nitrogen oxides (NOx)

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
3	2	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. Remove all sources of ignition. Take precautionary measures against static discharges

Environmental precautions 6.2

Should not be released into the environment.

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). Keep in suitable, closed containers for disposal. Remove all sources of ignition.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

Use only under a chemical tume hood. Wear personal protective equipment/tace protection. Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Keep awayfrom open flames, hot surfaces and sources of ignition. Wash hands before breaks and immediately after handling the product.



precautionary measures against static discharges.

7.2 Conditions for safe storage

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Corrosives area. Incompatible Materials. Strong oxidizing agents. Strong acids. Acid chlorides.

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	.1 Information on basic physical and chemical properties					
	a) Appearance Clear Liquid					
	b) Odour No information available					
	c) Odour Threshold No information available					
d) pH No information available						
	e) Melting point / freezing point	No information available				
	f) Initial boiling point and	82 - 84 °C / 179.6 - 183.2 °F @ 15 mmHg				



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	4.94
m) Specific Gravity	1.200
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	C7 H7 F2 N
t) Molecular Weight	143.14

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 :	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.
10.5 Incompatible materials:	Strong oxidizing agents, Strong acids, Acid chlorides
10.6 Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Gaseous Hydrogen fluoride (HF), Nitrogen oxides (NOx)
10.7 Hazardous Polymerization	No information available



SECTION 11: Toxicological information

11.1

Information on toxicological effects

Endocrine Disruptor Information:

Other Adverse 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
2,4-Difluoro	72235-	Not listed	Not	Not listed	Not listed	Not listed
benzylamine	52-0		listed			

Mutagenic Effects:	No information available.
Reproductive Effects:	No information available.
Developmental Effects:	No information available.
Teratogenicity:	No information available.
STOT - single exposure :	None known
STOT - repeated exposure:	None known
Aspiration hazard :	No information available.
Symptoms / effects,both acute and delayed:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting:Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation

No information available

investigated.

The toxicological properties have not been fully



	SECTION 12: Ecological information						
12.1 Ecotoxic	city:	Do not empty into drains.					
12.2 Pe	ersistence and degradability:	Persistence is unlikely based on information Available.					
	oaccumulation/ ccumulation	No information available					
12.3 Mo	obility:	Will likely be mobile in the environment due to its volatility.					

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:	ransport information

14.1 UN number:

DOT : UN2735 TDG : UN2735 IATA : UN2735 IMDG : UN2735

14.2 UN proper shipping name

DOT: AMINES, LIQUID, CORROSIVE, N. O. S. TDG: AMINES, LIQUID, CORROSIVE, N. O. S. IMDG: AMINES, LIQUID, CORROSIVE, N. O. S. IATA: AMINES, LIQUID, CORROSIVE, N. O. S. 14.3 Transport hazard class(es) DOT: 8 TDG: 8 IMDG: 8 IATA: 8 TDG: III 14.4 Packaging group: DOT: III IMDG: III IATA: III

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
2,4-Difluoro benzylamine	72235- 52-0	-	-	-

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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
2,4- Difluoroben zylamine	72235 -52-0	-	-	276-502-0	-	-	Х	-	-	-

U.S. Federal Regulations

SARA 313 Not applicable

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

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable

Health Administration

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65

chemicals.

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

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
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

Safety, hea	ilth and environ	mental regulati	ions/legislation sp	ecitic for the sul	bstance or mixture

Camananant	CACNIC	OECD HDV	Dougletout	0	Destriction of
Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
2,4-Difluoro benzylamine	72235-52-0	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous
		Qualifying Quantitiesfor Major Accident Notification	Qualifying Quantitiesfor Safety Report Requirements		Waste)
2,4-Difluoro benzylamine	72235-52-0	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 16: Other information

16.1 Prepared By: Regulatory affairs

Krishna Solvechem

Limited

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Creation Date: 23-Mar-2012 **Revision Date:** 19-Feb-2023 **Print Date:** 19-Frb-2023

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

> HazCom 2012 Standard replacing the current legislation under 29 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.