



GUJARAT FLUORO CHEMICALS LIMITED
GLOBAL PRODUCT STRATEGY SAFETY SUMMARY
2, 4-DIFLUOROBENZYLAMINE

PAGE 1 of 7

ISSUED :
28.08.2020

REVISION : 00

A. GENERAL INFORMATION

This product safety summary is intended to provide a general overview of the chemical substance in the context of ICCA global product strategy. It is not intended to provide emergency response, medical or treatment information nor to provide an overview of all safety and health information. This summary is not intended to replace the Safety Data Sheet. For detailed guidance on the use or regulatory status of this substance, please refer the Safety Data Sheet.

Company Name	M/s GUJARAT FLUORO CHEMICALS LIMITED
Address	Survey No 16/3, 26, 27, Ranjitnagar Pin-389 380, Tal. Ghoghamba, Dist. Panchmahals, Gujarat, India
Business Phone	+91 – 2678 – 248107, 248152
Business Fax	+91 – 2678 – 248153
Web Site	www.gfl.co.in

B. CHEMICAL PRODUCT IDENTIFICATION:

Product Name	2, 4-Difluorobenzylamine
Synonyms	2, 4-Difluorobenzylamine (C ₇ H ₇ F ₂ N)
IUPAC Name	2, 4-Difluorobenzylamine
CAS NO	72235-52-0
E C No	276-502-0
Molecular Formula	C ₇ H ₇ F ₂ N

C. USES AND APPLICATIONS:

- ✓ 2,4-Difluorobenzylamine has been used in the synthesis of βAla–Aib(*N*-fluoroarylmethyl)], nonpolar nucleobase dipeptide via Ugi four-component condensation reaction.

D. PHYSICAL / CHEMICAL PROPERTIES:

Properties	Value
Physical state and appearance	Clear colourless to light yellow liquid
Odor	NA
Molecular Weight	143.13 g/mole
Color:	Clear colorless to light yellow liquid.
PH (1% soln /water)	NA



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Boiling Point	82-84 °C (15 mmHg)
Melting Point	NA
Flash Point	68 deg.cent.
Critical Temperature	Not available
Relative Density	1.204g/ml at 25°C
Vapor Pressure	Not Available
Vapor Density	No information available
Volatility	Not available.
Odor Threshold	Not available.
Water/Oil Dist. Coefficient	Log Pow = 2.5
Ionicity (in Water)	Not available
Dispersion Properties	Not available

E. HAZARD IDENTIFICATION:

This chemical is considered hazardous by the Classification according to Regulation (EC) No. 1272/2008 [CLP]

Effect	Value
Acute toxicity	Not Available
Skin corrosion/irritation	Causes severe skin burns
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or skin sensitization	Not Available
Germ cell mutagenicity	Not Available
Carcinogenicity	Not Available
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	No data available
Specific target organ toxicity repeated exposure	No data available
Acute inhalation toxicity	Not Available
Aspiration hazard	No data available
Additional Information	RTECS: Not Available

F. ENVIRONMENTAL EFFECTS

Effect	Value
Toxicity	Not Available
Persistence and degradability	Not Available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	Not Available
Other adverse effects	Not Available

G. EXPOSURE

Effect	Value
Precautions for safe handling	Combustible liquid! Do not breathe mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical assistance. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharges, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.
Protection against fire and explosion	Wear self contained breathing apparatus for fire fighting if necessary.
Conditions for safe storage, including any incompatibilities	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place.
Further information on storage conditions	Keep container tightly closed and dry; store in a cool place. Keep container in a well-ventilated place.

H. RISK MANAGEMENT MEASURES

Effect	Value
Eye/face protection	Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)..

Skin protection	<p>Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.</p> <p>Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Aldrich - 264377.</p> <p>The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</p>
Body Protection	<p>Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p>

I. PERSONAL PROTECTIVE EQUIPMENT AND EMERGENCY MEASURES

- ✓ Control parameters
- ✓ Components with workplace control parameters
- ✓ Exposure controls
- ✓ Appropriate engineering controls
- ✓ Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating /lighting/equipments.


J. ACCIDENTAL RELEASE MEASURES

- ✓ **Personal Precaution, protective equipment and emergency procedure:**
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate Ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- ✓ **Environment Precautions:**
Prevent further leakage or spillage if safe to do so. Do not let product enter drain. Discharge into the environment must be avoided.
- ✓ **Methods and materials for containment and cleaning up:**
Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

K. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, Carbon dioxide (CO ₂), dry chemical, chemical foam. Water mist can be used to cool the closed containers.
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L. CLASSIFICATION AND LABELLING

Pictogram	
Hazard Statement	H314 causes severe skin burns and eye damage
Precautionary Statement	<p>P260 Do not breathe dust/fume/gas/mist/vapours/spray P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P264 Wash hands/face thoroughly after handling. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water/shower P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in comfortable position for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTRE or doctor/physician. P321 Specific treatment (see ... on this label) P403+ P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.</p>
Hazard signal	Danger

M. BASIC TRANSPORT INFORMATION

UN Number	ADR/RID: 2735 IMDG: 2735 IATA: 2735
1 UN Proper Shipping Name	Amines, liquid, corrosive n.o.s. (2,4-difluorobenzylamine)
Transport hazard class (es)	8
Packaging Group	II
Environmental hazards	ADR/RID: No IMDG Marine pollutant: No IATA: No

N. REGULATORY INFORMATION

International Inventories	Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture
TSCA	-
EINECS/ ELINCS	Complies
DSL/NDSL	-
PICCS	-
ENCS	-
IECSC	-
AICS KECL	-
Legend	
TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL	Domestic Substances List/ Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
AICS	Australian Inventory of Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances

O. CONCLUSIONS

- ✓ 2,4-Difluorobenzylamine has been used in the synthesis of β Ala–Aib(N-fluoroarylmethyl)], nonpolar nucleobase dipeptide via Ugi four-component condensation reaction.
- ✓ By applying the appropriate Risk Management measures the concentrations to be expected at workplaces and to the general public are below recommended exposure limits.

P. CONTACT INFORMATION



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Q. DISCLAIMER

- ✓ The above information and recommendations provided in GPS safety summary only concern to the specific product as described above and may not apply for the same material if used in combination with any other material or any process.
- ✓ They are in good faith as recommendations only and based on data which is available globally. GFL (Gujarat Fluorochemicals Ltd not imply any guarantee concerning the accuracy and validity and accepts no responsibility for any damage or loss that might arise in connection with then use of this material.