Scapex Exports Pvt. Ltd.
830, 8th Floor, Sun Gravitas, Times of India Road,
Shyamal, Ahmedabad 380015, Gujarat, India
+91 9925522674 · info@scapexexports.com
CIN U46909GJ2025PTC164345

MATERIAL SAFETY DATA SHEET — 16-section GHS format

2,3-Difluorobenzhydrazide

CAS 387358-53-4 · Fine chemical grade — assay on specification

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE SUPPLIER

Product Name	2,3-Difluorobenzhydrazide
C.A.S. Number	387358-53-4
Product Category	Amines, Amides & Nitrogen Compounds
Product Group	Nitro & Diazo Compounds
Grade / Standard	Fine chemical grade — assay on specification
Identified Uses	Research, analysis and fine chemical synthesis. Industrial and professional use.
Supplier	Scapex Exports Pvt. Ltd., 830, 8th Floor, Sun Gravitas, Times of India Road, Shyamal, Ahmedabad 380015, Gujarat, India
Emergency Telephone	+91 9925522674 (Mon–Sat, 09:30–18:30 IST)

2. HAZARDS IDENTIFICATION

GHS Classification	Toxic, corrosive, suspected carcinogen
Signal Word	**DANGER**
Pictograms	Skull and crossbones, Corrosion, Health hazard, Environment

◇ Skull and crossbones ◇ Corrosion ◇ Health hazard ◇ Environment

Hazard statements

- H301 — Toxic if swallowed.
- H311 — Toxic in contact with skin.
- H314 — Causes severe skin burns and eye damage.
- H331 — Toxic if inhaled.
- H350 — May cause cancer.
- H317 — May cause an allergic skin reaction.
- H410 — Very toxic to aquatic life with long lasting effects.

Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P262 Do not get in eyes, on skin, or on clothing.
- P260 Do not breathe dust / fume / mist / vapours / spray.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.
- P310 Immediately call a POISON CENTER or doctor.
- P264 Wash hands and exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P337+P313 If eye irritation persists: Get medical advice / attention.
- P273 Avoid release to the environment.
- P391 Collect spillage.
- P501 Dispose of contents and container in accordance with local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Identity	2,3-Difluorobenzhydrazide
C.A.S. Number	387358-53-4
Concentration / Grade	Fine chemical grade — assay on specification
Impurities	No impurities present at concentrations that alter the classification.

4. FIRST-AID MEASURES

Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult give oxygen. Obtain medical attention.
Skin contact	Remove contaminated clothing. Wash the affected area with plenty of soap and water for at least 15 minutes. Obtain medical attention if irritation persists.
Eye contact	Rinse immediately with plenty of water for at least 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do. Obtain immediate medical attention.
Ingestion	Do NOT induce vomiting. Rinse the mouth with water. Never give anything by mouth to an unconscious person. Obtain immediate medical attention and show this Material Safety Data Sheet.
Note to physician	Treat symptomatically. No specific antidote is known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Water spray, dry chemical powder, carbon dioxide or alcohol-resistant foam.
Unsuitable extinguishing media	High-pressure water jet.
Specific hazards	Thermal decomposition may generate irritating and toxic gases.
Advice for fire-fighters	Wear self-contained breathing apparatus and full protective clothing. Prevent fire-fighting water entering drains or watercourses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Evacuate unnecessary personnel. Ensure adequate ventilation. Wear the protective equipment described in Section 8. Eliminate ignition sources where the product is flammable.
Environmental precautions	Prevent entry into drains, sewers, surface water and groundwater. Notify the authorities if release to the environment occurs.
Containment and cleaning	Contain with an inert absorbent (dry sand, earth or vermiculite) and collect into a labelled closed container for disposal. Do not use combustible absorbents where the product is an oxidiser. Ventilate the area and wash the spill site after pick-up.

7. HANDLING AND STORAGE

Handling	Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Avoid formation and inhalation of dust, mist or vapour. Do not eat, drink or smoke in the work area.
Storage	Store in the original tightly closed container in a cool, dry, well-ventilated place away from direct sunlight and heat, and away from the incompatible materials listed in Section 10.
Packaging	Use only the original packaging or an equivalent material approved for this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits	Refer to the national occupational exposure limits applicable in the country of use. Where no limit is established, keep airborne concentrations as low as reasonably practicable.
Engineering controls	Local exhaust ventilation at points of dust, mist or vapour generation. Eyewash stations and safety showers close to the work station.
Eye / face protection	Chemical safety goggles to EN 166 / IS 5983. Face shield where splashing is possible.
Skin protection	Chemical-resistant gloves to EN 374 (nitrile or butyl rubber). Chemical-resistant apron, suit and boots as required by the task.

Respiratory protection	Where ventilation is insufficient use an approved respirator with a P2/P3 particulate filter for dusts or an appropriate vapour cartridge for solvents.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Appearance as per specification
Odour	Characteristic
Physical state	Solid
Flash point	Not applicable
Purity / assay	Fine chemical grade — assay on specification
pH, melting point, boiling point, density, solubility	See the 2,3-Difluorobenzhydrazide specification sheet

10. STABILITY AND REACTIVITY

Reactivity	Stable under the recommended handling and storage conditions.
Conditions to avoid	Heat, direct sunlight, moisture, ignition sources and mechanical damage to packaging.
Incompatible materials	Strong bases or strong acids as applicable, oxidising agents, and reactive metals such as aluminium, zinc and magnesium.
Hazardous decomposition products	Oxides of carbon and other toxic fumes on thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure	Inhalation, skin contact, eye contact and ingestion.
Acute toxicity	Product-specific LD50/LC50 data available from the manufacturer on request.
Carcinogenicity	Listed as a carcinogen category 1A/1B under CLP.
Reproductive toxicity	Not classified.

12. ECOLOGICAL INFORMATION

Aquatic toxicity	Very toxic to aquatic organisms — do not allow release to the environment.
Persistence and degradability	Assess against local discharge consent limits before release.
Other adverse effects	Do not allow the product to enter drains, sewers or watercourses.

13. DISPOSAL CONSIDERATIONS

Waste treatment	Dispose of product and container through an authorised waste treatment or disposal facility in accordance with local, state and national regulations.

Contaminated packaging	Empty containers retain product residue. Triple-rinse where appropriate and offer for approved reconditioning or disposal.

14. TRANSPORT INFORMATION

UN number	UN 2029
UN proper shipping name	2,3-DIFLUOROBENZHYDRAZIDE
Transport hazard class	6.1
Packing group	II
Marine pollutant	Yes
IMDG / IATA / ADR	Classified as shown above. Confirm the current entry and segregation requirements against the edition of the code in force at the time of shipment.

15. REGULATORY INFORMATION

Classification system	GHS Rev. 9; CLP Regulation (EC) No. 1272/2008.
EU REACH	Registration status held by the manufacturer. A REACH statement is available on request.
India	Manufacture, Storage and Import of Hazardous Chemicals Rules, as applicable.

16. OTHER INFORMATION

Basis of classification	Assigned on the basis of the chemical class of the product and the standard commercial grade supplied. Where the manufacturer of a particular batch publishes a different classification, that classification governs.
Revision	Revision 1 — first issue
Prepared by	Quality Assurance, Scapex Exports Pvt. Ltd.

Disclaimer. This Material Safety Data Sheet is provided in good faith and is believed correct at the date of issue. It relates only to the material identified and is not a specification. It does not constitute a warranty of merchantability or fitness for a particular purpose. Users must satisfy themselves as to its suitability and completeness for their own use.

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