

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name: 3-Fluoroanisole

Cat No.: AC171890000; AC171890250; AC171891000; AC171890050

CAS No.: 456-49-5

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 3)

2.2 Label elements

Pictogram:



Signal word Warning

Hazard statement (s) Flammable liquid and vapor



Causes skin irritation Causes serious eye irritation May cause respiratory irritation

Precautionary statement (s)

Prevention

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools

Take precautionary measures against static discharge

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

Fire

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

Storage:

Store in a well-ventilated place. Keep Cool



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 %
1-Bromo-2-methylpropane (By	78-77-3	98% Minimum
GC)		

SECTION 4: First aid measures

4.1	1 Description of first aid measures						
	General Advice:	If symptoms persist, call a physician.					
	If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. 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 and drink afterwards plenty of water.					
4.2	Most important symptoms	Inhalation of high vapor concentrations may cause symptoms					

SECTION 5: Firefighting effects

Treat symptomatically

5.1 Extinguishing media

and effects:

4.3

Notes to Physician:

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

resistant foam. Water mist may be used to cool closed

like headache, dizziness, tiredness, nausea and vomiting

containers.

Unsuitable Extinguishing

Media::

No information available

5.2 Flash Point : 43 °C / 109.4 °F

Method: No information available



Autoignition Temperature:

No information available

Explosion Limits:

UpperNo data availableLowerNo data available

Sensitivity to Mechanical

Impact

No information available

Sensitivity to Static No information available

Discharge

Specific Hazards Arising from

the Chemical:

Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to

source of ignition and flash back.

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

Products: Hydrogen fluoride (HF)

5.4 Protective Equipment and As in any fire, wear self-contained breathing apparatus

Precautions for Firefighters: pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

Health Flammability Instability Physical hazards

0 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

6.2 Environmental precautions

Should not be released into the environment. See section 12 for additional Ecological information

6.3 Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from openflames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.



7.2 Conditions for safe storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away fromheat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Acids.

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

Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

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 Light yellow Liquid b) Odour No information available c) Odour Threshold No information available d) pH Not applicable -35 °C / -31 °F e) Melting point / freezing point f) Initial boiling point and 158 °C / 316.4 °F @ 743 mmHg



43 °C / 109.4 °F No information available Not applicable No data available
Not applicable No data available
No data available
No data available
No data available
No information available
4.35
1.104
No information available
No data available
No information available
No information available
No information available
C7 H7 F O
126.13

	SECT	ION 10: Stability and Reactivity
10.1	Reactive Hazard :	None known, based on information available
10.2	Chemical stability:	No information available
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. Excess heat. Incompatible products.
10.5	Incompatible materials:	Strong oxidizing agents, Acids
10.6	Hazardous decomposition products :	Carbon monoxide (CO), Carbon dioxide (CO2), Gaseous Hydrogen fluoride (HF)
	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
3-Fluoroanisole	456-49-	Not listed	Not	Not listed	Not listed	Not listed
	5		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:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, naus 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 Ecotoxicity:	Do not empty into drains.						
12.2 Persistence and degradability:	Persistence is unlikely						
Bioaccumulation/ Accumulation	No information available						
12.3 Mobility:	No information available. Log pow : 2.36						

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	CECTION	4 4 . T		
SECTION LT. HUMSBOIL IIII OHII UUU III	SECTION	14' Irans		
	SECTION	TT. IIGIIS	POILIII	Officiation

14.1 UN number:

DOT: UN1993 TDG: UN1993 IATA: UN1993 IMDG: UN1993

14.2 UN proper shipping name

DOT: Flammable liquid, n. o. s. TDG: Flammable liquid, n. o. s. IMDG: Flammable liquid, n. o. s. IATA: Flammable liquid, n. o. s. 14.3 Transport hazard class(es) DOT: 3 TDG: 3 IMDG: 3 IATA: 3 DOT: III TDG: III IMDG: III IATA: III 14.4 Packaging group:

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
3-	456-49-	-	-	-
Fluoroanisole	5			

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
3-	456-49-	-	-	207-267-4	-	-	-	-	Х	-
Fluoroanisole	5									

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, health and environmental regulations/legislation specific for the substance or mixture

Safety, h	ealth and envir	onmental regulation	ns/legislation sp	ecific for the sub	ostance or mixture
Component CAS No		OECD HPV	OECD HPV Persistent		Restriction of
			Organic	Depletion	Hazardous
			Pollutant	Potential	Substances (RoHS)
3-	456-49-5	Not applicable	Not applicable	Not applicable	Not applicable
Fluoroanisole					
Component	CAS No	Seveso III	Seveso III	Rotterdam	Basel
		Directive	Directive	Convention	Convention
		(2012/18/EC) -	(2012/18/EC) -	(PIC)	(Hazardous
		Qualifying	Qualifying		Waste)
		Quantitiesfor	Quantitiesfor		
		Major Accident	Safety Report		
		Notification	Requirements		
3-	456-49-5	Not applicable	Not applicable	Not applicable	Not applicable
Fluoroanisole					

SECTION 16: Other information

16.1 Prepared By: Regulatory affairs

Krishna Solvechem

Limited

Email: exports@kscl.co.in

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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.