

# GPS Safety Summary 1-bromo-3,4,5-trifluorobenzene

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# 1. General Statement

1-bromo-3,4,5-trifluorobenzene is a clear slightly yellow liquid used as intermediate in the chemical industry.

# 2. Chemical identity

Name : 1-bromo-3,4,5-trifluorobenzene

CAS number(s) : 138526-69-9 EC number : 418-480-9 Molecular formula : C6H2BrF3

Structure :

# 3. Uses and Benefits

Main use category is Industrial use & 1-bromo-3,4,5-trifluorobenzene use for intermediates of liquid crystals.

# 4. Physical / chemical properties

Property	Value
Physical state :	Liquid
Colour :	light yellow
Odour :	No data available
pH:	No data available
Melting point	Not applicable
Freezing point	-20 °C
Boiling point :	139 °C Atm. press.: 100,1 kPa Decomposition: 'no'
Flash point :	48°C
Density:	Not available
Solubility in Water:	No data available

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# **5. Health Effects**

Effect Assessment	Result
Acute toxicity (Oral / inhalation / dermal)	No
Irritation / corrosion Skin / eye/ respiratory tract	Causes skin irritation, Causes serious eye damage.
Respiratory or skin sensitisation	NA
Toxicity after repeated exposure Oral / inhalation / dermal	NA
Genotoxicity / Mutagenicity	NA
Carcinogenicity	Suspected of causing cancer.
Toxicity for reproduction	NA

# **6. Environmental Effects**

Effect Assessment	Result
Aquatic toxicity	Yes
Fate and behavior	Result
Persistence and degradability	No additional information available
Bioaccumulative potential	No additional information available

# 7. Exposure

#### Human health

The substance May cause cancer, cause serious eye damage and also it may cause an allergic skin reaction. The most likely route of human exposure (workers) is through skin. In industrial settings, ingestion is not an anticipated route of exposure. Workers may be exposed during (un)loading, mixing, sampling, analysis or maintenance operations and particularly in case of batch processes. The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers. Careless handling or accidental spillage of the chemical could result in exposure to potentially hazardous levels of chemicals the substance is handled in closed systems, and it is usual for operators to wear impervious suits and self-contained breathing apparatus for operations involving the transfer of dimethyl sulfate, where there is the possibility of greater exposure.

Industrial workers should ensure that they follow the advice found in the extended safety data sheet (SDS).

#### **Environment**

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Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. Spillage shall be quickly collected in the event of an accidental release. More information about release measures and accidental release measures are available in the extended safety data sheet.

# 8. Risk Management Recommendations

### **Human health measures**

Organizational	A basic standard of occupational hygiene is recommended. Ensure operatives are well informed of the hazards and trained to minimise exposures. Ensure regular inspection and maintenance of equipment and machines. Handle and store according to the indications of the Safety Data Sheet.	
Protection	Eye protection:	Safety glasses
	Skin and body protection:	Wear suitable protective clothing (Avoid inhalation or skin contact)
	Respiratory protection:	High concentration or prolonged activity: self contained breathing apparatus.
Engineering controls	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.	
Environment protective measures		
Product must not be released into water without pre-treatment. Neutralize wastewater before release.		

# 9. First-aid measures

**First-aid measures after inhalation**: Get medical advice/attention if you feel unwell.Remove person to fresh air and keep comfortable for breathing.

**First-aid measures after skin contact**: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

**First-aid measures after eye contact**: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Get medical advice/attention if you feel unwell. Rinse eyes with water as a precaution.

**First-aid measures after ingestion**: Rinse mouth out with water. Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

# 10. Fire-fighting measures

## **Extinguishing media**

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : NA

Special hazards arising from the substance or mixture

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Hazardous decomposition products in case of fire : Toxic fumes may be released.

# **Advice for firefighters**

Precautionary measures fire: Eliminate all ignition sources if safe to do so. Keep the container closed when not in use. Keep the container tightly closed and away from heat, sparks and flame.

Firefighting instructions: Fight fire from safe distance and protected location. Do not enter a fire area without proper protective equipment, including respiratory protection.

## 11. Accidental release measures

**Protective equipment**: Wear Safety glasses. Self-contained breathing apparatus. Total impervious protective suits, gloves, and boots must be worn to prevent any contact with the product. Wear recommended personal protective equipment.

**Environmental precautions:** Prevent entry to sewers and public waters. Avoid discharge to the atmosphere. Do not allow entering drains or water courses.

**For containment**: Stop leak without risks if possible. Collect spillage. Do not touch or walk on the spilled product. Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Heat exposure: dilute toxic gas/vapour with water spray.

# 12. Disposal consideration

Regional legislation (waste): Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

**Sewage disposal recommendations**: Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point. Hazardous waste shall not be mixed together with other waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.

### 13. Handling and storage

**Precautions for safe handling**: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes.

**Hygiene measures**: Always wash hands after handling the product. Remove contaminated clothes. Wear personal protective equipment.

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# 14. Classification and Labeling

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









Signal word (CLP)

Hazard statements (CLP)

: Danger

: H226 - Flammable liquid and vapour.

H351 - Suspected of causing cancer. H318 - Causes serious eye damage.

H315 - Causes skin irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P243 - Take action to prevent static discharges.

P241 - Use explosion-proof electrical, ventilating, lighting equipment.

P242 - Use non-sparking tools.

P240 - Ground and bond container and receiving equipment.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P264 - Wash hands thoroughly after handling.

P233 - Keep container tightly closed.

P273 - Avoid release to the environment.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER or doctor.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water or shower.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P370+P378 - In case of fire: Use media other than water to extinguish.

P391 - Collect spillage.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

### 15. Conclusion

1-bromo-3,4,5-trifluorobenzene is a clear slightly yellow liquid. The substance May cause cancer, cause serious eye damage and also it may cause an allergic skin reaction. Care should be taken to avoid releases of these products to sewage, drainage systems and water bodies. The exposure must be kept as minimum as possible by the use of appropriate risk management measures as suitable collective and personal protective equipment, good industrial hygiene practices and risk communication through appropriate training of workers.

# 16. Contact Information within company

#### Manufacturer

Aarti Industries Limited

Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (West)

# GPS Safety Summary 1-bromo-3,4,5-trifluorobenzene

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This GPS safety summary is intended to give general information about the health, safety and environmental and not intended to provide in-depth details. To obtain the most accurate and current information, consult the appropriate Safety Data Sheet (SDS) prior to use of the material named herein.

**CL-4 PUBLIC**