



In accordance with Annex II of the REACH Regulation EC 1907/2006,
Regulation (EC) 1272/2008 and Regulation (EC) 453/2010

PRODUCT SAFETY DATA SHEET

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Substance name: **4-AMINOENZOTRIFLUORIDE**

Synonyms: α,α,α -Trifluoro-p-toluidine, 4-(trifluoromethyl)-aniline

Chemical name and formula: $C_7H_6F_3N$

Trade name: 4-aminobenzotrifluoride

CAS: 455-14-1

EINECS: 207-236-5

REACH Registration number: 05-2118618811-44-0000

1.2 Relevant identified uses of the substance or mixture and uses advised against Laboratory chemicals, Manufacture of substances

Uses advised against: There are no uses advised against.

1.3 Details of the supplier of the safety data sheet

Name: **Vinyl Kereskedelmi Kft.**

Address: **3524 Miskolc, Adler K. u.19.**

Phone N°: **+36 46 432 633**

Fax N°: **+36 46 365 816**

E-mail of competent person responsible for SDS in the MS or in the EU: ehsq@vinyl.hu

1.4 Emergency telephone number

European Emergency N°: **112**

National centre for Prevention and of Treatment **(36-1) 476-64-64, free call: 36-80-201-199**

Intoxications N°:

Emergency telephone at the company **+36 46 432 633**

Available outside office hours: **X No**

2 HAZARDS IDENTIFICATION



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2.1 Classification of the substance

2.1.1 Classification according to Regulation (EC) 1272/2008

Acute toxicity, Oral (Category 3)

Eye irritation (Category 2)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

2.2 Label elements

Labelling according to EC Directives. Hazardous components which must be listed on the label: α,α,α -Trifluoro-p-toluidine.

2.2.1 Labelling according to Regulation (EC)

1272/2008 Signal word: **DANGER**

Hazard pictogram:



Hazard statements:

H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

The substance does not meet the criteria for PBT or vPvB substance.

No other hazards identified.

3 COMPOSITION/INFORMATION ON

INGREDIENTS 3.1 Substances



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Main constituent

Name:	4-aminobenzotrifluoride
CAS:	455-14-1
EINECS:	207-236-5
Purity:	> 98.5 %
Impurities:	
Name:	3-aminobenzotrifluoride
CAS:	98-16-8
EINECS:	202-643-4
Weight %	< 0.1%

No impurities relevant for classification and labelling.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice:

Following inhalation: Toxic if inhaled. Causes respiratory tract irritation. Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Keep warm. Get immediate medical attention.

Following skin contact: Causes skin irritation. Immediately flush skin with plenty of soap and water, cleaning immediately with polyethyleneglycol 400 and washing subsequently with plenty of soap and water would be more effective. Carefully clean hair, under nails and other hidden areas. No consumption of alcohol.

Remove contaminated clothing and shoes. Get immediate medical attention especially if irritation develops, persists or symptoms of overexposure become apparent.

Following eye contact: Causes eye irritation. Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention if irritating persists, or symptoms of overexposure become apparent.

After ingestion: Toxic if swallowed. If swallowed call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed by medical personnel. Get medical attention. Wash our mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

Emergency Overview: Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. Danger of cumulative effects.

Absorption into the body leads to the formation of met-hemoglobin which in sufficient concentrations causes cyanosis (bluish discoloration of skin due to the deficient oxygenation of the blood).

4.3 Indication of any immediate medical attention and special treatment needed

N.D.



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5 FIREFIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Dry chemical powder, carbon dioxide or polymer foam. In cases of larger fires water spray should be used.

5.1.2 Unsuitable extinguishing media

Never use direct water jet.

5.2 Special hazards arising from the substance or mixture

Formation of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen fluoride and other toxic gases in the event of fire or during thermal decomposition.

5.3 Advice for fire fighters

Wear self-contained breathing apparatus. Fight fire in early stages if safe to do so. Fire in vicinity poses risk of pressure build-up and rupture. Containers at risk of fire should be cooled with water and, if possible, removed from danger area. When extinguishing with water pay attention to caustic burns.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Use proper personal protective equipment as listed in section 8.

6.1.2 For emergency responders

Use proper personal protective equipment as listed in section 8.

6.2 Environmental precautions

Do not allow material to enter drains or streams, waters, waste-water or soil. Correct handling will produce no environmental problems.

6.3 Methods and material for containment and cleaning up

Clean up spills immediately, observing precautions in the 8. Protective Equipment section. Cover with sawdust or sand, and waiting until it has solidified or been absorbed. Pick up and fill into labelled, sealable container. Ventilate area and wash spill site after material pickup is completed. Keep unauthorised persons away.

6.4 Reference to other sections

Use proper personal protective equipment as listed in section 8.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

This product should be handled only by, or under close supervision of, those properly qualified in the handling and use of potentially hazardous chemicals, who should take into account the fire, health and chemical hazard data.

7.1.1 Protective measures



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Care should be taken to prevent any chemical form coming into contact with the skin or eyes and from contaminating personal clothing. It should be always be handled in and efficient fume hood or equivalent system.

7.1.2 Advice on general occupational hygiene

Wash body thoroughly after handling of product. Avoid contact with eyes and skin. Avoid inhaling vapour. Keep working clothes separately.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool, dry, well-ventilated area away from sources of heat and incompatible substances. Keep container tightly closed when not in use. Store tightly sealed in original container. Avoid temperature above 30°C. Combustible liquid. Avoid contact with acids and strong oxidizing agents.

7.3 Specific end use(s)

This combustible material may be burned in chemical incinerator equipped with afterburner and scrubber.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1 Control parameters

N.D.

8.2 Exposure controls

N.D.

8.2.1 Appropriate engineering controls

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149 approved respirator when necessary (combination filter) if product forms vapour.

8.2.2 Individual protection measures, such as personal protective equipment

Eye/face protection: closely fitting goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.2.2.1 Skin protection: Wear appropriated protective gloves to prevent skin exposure (e.g. of rubber or PVC). Wear appropriate protective clothing to prevent skin exposure (acid-proof overalls)

8.2.2.2 Respiratory protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149 approved respirator when necessary (combination filter) if product forms vapour.

8.2.2.3 Thermal hazards: No thermal decomposition when stored and handled correctly.

8.2.3 Environmental exposure controls

N.D.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Colourless to pale yellow clear liquid

Odour: N.D.

Odour threshold: N.D.

pH: N.D.



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Melting point:	3-8°C
Boiling point:	83°C (at 12 Hgmm)
Flash point:	86°C (186 F)
Evaporation rate:	N.D.
Flammability:	N.D.
Explosive limits:	N.D.
Vapour pressure:	N.D.
Vapour density:	N.D.
Density:	1.29 - 1.30 g/cm ³
Relative density:	N.D.
Solubility in water:	< 0.1 g/100 ml
Solubility:	N.D.
Partition coefficient:	N.D.
Auto ignition temperature:	N.D.
Decomposition temperature:	N.D.
Viscosity:	N.D.
Oxidising properties:	N.D.

9.2 Other information

Chemical name and formula:	C7H6F3N
Molecular Weight:	161,12 g/mol

10 STABILITY AND REACTIVITY

10.1 Reactivity

Avoid contact with acids and strong oxidizing agents.

10.2 Chemical stability

No decomposition when used properly.

10.3 Possibility of hazardous reactions

No hazardous reactions when used as directed.

10.4 Conditions to avoid

Avoid contact with acids and strong oxidizing agents.

10.5 Incompatible materials

Avoid contact with acids and strong oxidizing agents.

4-aminobenzotrifluoride sensitivity to moisture and oxidation. Use inert atmosphere or pillow to avoid the quality decline during sampling, testing, storage or usage.

10.6 Hazardous decomposition products

No thermal decomposition when stored and handled correctly. No hazardous decomposition products when stored and handled correctly. Formation of carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen fluoride and other toxic gases in the event of fire or during thermal decomposition.



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11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity endpoints	Outcome of the effects assessment
Absorption	Absorption into the body leads to the formation of met-hemoglobin which in sufficient concentrations causes cyanosis (bluish discoloration of skin due to the deficient oxygenation of the blood).
Acute toxicity	Oral rat LD50: 58 mg/kg – 128 mg/kg LD50 Dermal - rat - > 2.000 mg/kg Inh rat LC50: N.D.
Irritation /corrosion	Irritating to eyes, respiratory system and skin. Eyes - rabbit - Moderate eye irritation
Sensitisation	N.D.
Repeated dose toxicity	Danger of cumulative effects.
Mutagenicity	Genotoxicity in vitro - This material has shown a positive Ames test, an in vitro test that indicates a possible potential to produce a carcinogenic effect. Histidine reversion (Ames).
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Toxicity for reproduction	N.D.

12 ECOLOGICAL INFORMATION 12.1 Toxicity

12.1.1 Acute/Prolonged toxicity to fish

LC50 (96h) for fish: 35.0 mg/l

12.1.2 Acute/Prolonged toxicity to aquatic invertebrates

EC50 (48h) for dafnia magna: 0.75 mg/l

12.1.3 Acute/Prolonged toxicity to aquatic plants

No data available.

12.1.4 Toxicity to micro-organisms e.g. bacteria

No data available.

12.1.5 Chronic toxicity to aquatic organisms

No data available.

12.1.6 Toxicity to soil dwelling organisms

No data available.

12.1.7 Toxicity to terrestrial plants

No data available.

12.1.8 General effect

No data available.



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12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

This combustible material may be burned in chemical incinerator equipped with afterburner and scrubber.

Consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA/or state and local guidelines, by a licensed disposal company. For disposal within the EU the appropriate code as per the European Waste Catalogue (EWC) should be used.

Remains: EWC 18 02 05

Empties: EWC 15 01 10

14 TRANSPORT INFORMATION

14.1 UN-Number: 2810

14.2 UN proper shipping name: TOXIC, ORGANIC, LIQUID, N.O.S. (4-Trifluoromethylaniline),

14.3 Transport hazard class(es): 6.1

14.4 Packing group: III

14.5 Environmental hazards

Do not allow material to enter drains or streams, waters, waste-water or soil. Correct handling will produce no environmental problems.

14.6 Special precautions for user

Toxic by inhalation, in contact with skin and if swallows. Irritating to eyes, respiratory system and skin. Danger of cumulative effects.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance

Authorisations: N.D.

Restrictions on use: 1907/2006/EC (REACH), Regulation (EC) 1272/2008 and Regulation (EC) 453/2010 (CLP)

Other EU regulations: N.D.

15.2 Chemical safety assessment



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No data available.

16 OTHER INFORMATION

16.1 Hazard Statements

H301 Toxic if swallowed.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

16.2 Precautionary Statements

P273 Avoid release to the environment.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container to an approved waste disposal plant.

16.5 Abbreviations

N.D.: No data available
EC50: median effective concentration
LC50: median lethal concentration
LD50: median lethal dose
NOEC: no observable effect concentration
OEL: occupational exposure limit
PBT: persistent, bioaccumulative, toxic chemical
PNEC: predicted no-effect concentration
STEL: short-term exposure limit
TWA: time weighted average
vPvB: very persistent, very bioaccumulative chemical

16.6 Key literature references

SDS of FIVE COOP (BA-056), 02.09.2009., Version:1., Issue: 1.

16.7 Revision

Rev. 1.: 01. 03. 2011.
Rev. 2.: 12.12.2018.: Remove the Classification according to Directive 67/548/EEC.
Disclaimer

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such a revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

End of the Safety Data Sheet