

Safety Data Sheet

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: AFC [7-Amino-4-trifluoromethylcoumarin] *CAS 53518-15-3*
Product number: 57

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only. Not intended for diagnostic or therapeutic use.

1.3 Details of the supplier of the safety data sheet

Company: AAT Bioquest, Inc.
Address: 5775 W Las Positas Blvd, Pleasanton, CA 94588
Telephone: (408)-733-1055
Fax: (408)-733-1304
Email: info@aatbio.com

1.4 Emergency telephone number

Chemtrec (Within USA): 1-(800)-424-9300
Chemtrec (Outside USA): 1-(703)-527-3887

Section 2: Hazard identifications

2.1 Classification of the substance or mixture

Serious eye damage/eye irritation: Category 2A
Skin corrosion/irritation: Category 2
Specific target organ toxicity, single exposure; Respiratory tract irritation: Category 3

2.2 Label elements

Signal word: Warning
Hazard statements: H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Symbols/Pictograms:



Precautionary statements - prevention:	Wash hands... thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Wash hands... thoroughly after handling. Do not touch eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area.
Precautionary statements - response:	IF ON SKIN: wash with plenty of water. Specific treatment (see on this label). If skin irritation occurs: Get medical help. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. If eye irritation persists: Get medical help. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.
Precautionary statements - storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Precautionary statements - disposal:	Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Hazards not otherwise classified (HNOC):	None identified
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2.4 Other information

Other hazards:	Hazards classified under paragraph (d)(1)(ii) of 1910.1200 No information available
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Section 3: Composition/information on ingredients

3.1 Substances

Chemical name:	AFC [7-Amino-4-trifluoromethylcoumarin] *CAS 53518-15-3*
CAS number:	53518-15-3
Molecular weight:	229.15
Formula:	Not available

Section 4: First aid measures

4.1 First-aid measures

General advice:	If symptoms persist, call a physician.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Skin contact:	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Self-protection of the first aider:	Use personal protective equipment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: Most important symptoms and effects: None reasonably foreseeable.

4.3 Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically

Section 5: Firefighting measures

5.1 Suitable extinguishing media

Suitable extinguishing media: Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical foam.
Unsuitable extinguishing media: No information available

5.2 Specific hazards arising from the chemical

Specific hazards arising from the chemical: Dust can form an explosive mixture with air. Fine dust dispersed in air may ignite.
Hazardous combustion products: Nitrogen oxides (NO_x). Carbon monoxide (CO). Carbon dioxide (CO₂). Gaseous hydrogen fluoride (HF).

5.3 Explosion data

Sensitivity to mechanical impact: No information available
Sensitivity to static discharge: No information available

5.4 Protective equipment and precautions for firefighters

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Personal precautions: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

6.2 Environmental precautions

Environmental precautions: Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.
Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on 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. Avoid dust formation.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Keep in a dry, cool and well-ventilated place. Keep container tightly closed.

Incompatible materials:

Incompatible Materials. Strong oxidizing agents. Strong acids. Strong bases.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Exposure guidelines:

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Appropriate engineering controls

Engineering controls:

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

8.3 Individual protection measures, such as 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 and body protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: Particulates filter conforming to EN 143.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.

Section 9: Physical and chemical properties

Physical state:

Solid

Solubility in water:

Low

Appearance:

No information available.

Odor/odor threshold:

Odorless

pH:

No information available

Melting point/freezing point:

221 - 222 °C / 429.8 - 431.6 °F

Boiling point:

No information available

Flashpoint:

No information available

Liquid density:

No information available.

Evaporation rate:

Not applicable - Solid

Upper flammability limit:

No data available

Lower flammability limit:

No data available

Vapor pressure:

No data available

Vapor density:

Not applicable

Specific gravity:

No data available

Water solubility:

No information available

Solubility in other solvents:

No information available

Partition coefficient:	No information available.
Autoignition temperature:	Not applicable
Decomposition temperature:	No data available
Viscosity:	Not applicable
Explosive properties:	Explosion Limits: No data available
Oxidizing properties:	No information available.

Section 10: Stability and reactivity

Reactivity:	Reactive Hazard: None known, based on information available
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	Hazardous Reactions: None under normal processing.
Hazardous polymerization:	Hazardous polymerization does not occur.
Conditions to avoid:	Incompatible products.
Incompatible materials:	Strong oxidizing agents, Strong acids, Strong bases
Hazardous decomposition products:	Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Gaseous hydrogen fluoride (HF)

Section 11: Toxicological information

11.1 Information on likely routes of exposure

Inhalation:	Avoid breathing dust or spray mist. May be harmful if inhaled.
Eye contact:	Avoid contact with eyes. Irritating to eyes.
Skin contact:	Avoid contact with skin. May cause irritation.
Ingestion:	May be harmful if swallowed.

11.2 Information on toxicological effects

Symptoms:	Symptoms / effects, both acute and delayed: No information available.
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11.3 Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity:	(i) STOT-repeated exposure; No data available Target Organs: No information available. Other Adverse Effects: The toxicological properties have not been fully investigated. Endocrine Disrupting Properties: This product does not contain any known or suspected endocrine disruptors.
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11.4 Numerical measures of toxicity - product information

Unknown acute toxicity:	Toxicologically Synergistic Products: No information available (b) skin corrosion/irritation; Category 2 (c) serious eye damage/irritation; Category 2 (d) respiratory or skin sensitization; Respiratory No data available Skin No data available (e) germ cell mutagenicity; No data available (f) carcinogenicity; The table below indicates whether each agency has listed any ingredient as a carcinogen. 2H-1-Benzopyran-2-one, 7-amino-4-(trifluoromethyl)- (CAS 53518-15-3): IARC Not listed, NTP Not listed, ACGIH Not listed, OSHA Not listed, Mexico Not listed (g) reproductive toxicity; No data available (h) STOT-single exposure; Category 3 Results / Target organs: Respiratory system. (j) aspiration hazard; Not applicable Solid Other Adverse Effects: The toxicological properties have not been fully investigated.
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Section 12: Ecological information

Ecotoxicity:	Do not empty into drains.
Persistence and degradability:	No information available
Bioaccumulation:	No information available.
Mobility:	No information available.

Section 13: Disposal consideration

Disposal of wastes:	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.
Contaminated packaging:	Do not reuse container.
Other information:	None

Section 14: Transport information

DOT:	Not regulated TDG Not regulated
IMDG:	IMDG/IMO Not regulated
IATA:	Not regulated

Section 15: Regulatory information

15.1 International Inventories

US Toxic Substances Control Act (TSCA):	United States of America Inventory: 2H-1-Benzopyran-2-one, 7-amino-4-(trifluoromethyl)- (CAS 53518-15-3): TSCA X; TSCA Inventory notification - Active-Inactive ACTIVE; TSCA - EPA Regulatory Flags -. Legend: TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710), X - Listed, '-' - Not Listed. TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT): Not applicable. TSCA 12(b) - Notices of Export: Not applicable
Canada (DSL/NDSL):	Canada (DSL/NDSL): 2H-1-Benzopyran-2-one, 7-amino-4-(trifluoromethyl)- (CAS 53518-15-3): DSL -; NDSL X
Europe (EINECS/ELINCS/NLP):	Europe (EINECS/ELINCS/NLP): EINECS 258-599-1
Australia (AICS):	Australia (AICS): -
South Korea (KECL):	Korea (KECL): -
China (IECSC):	China (IECSC): -
Japan (ENCS):	Japan (ENCS): -
Philippines (PICCS):	Philippines (PICCS): -

15.2 US Federal Regulations

SARA 313:	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
SARA 311/312 components:	Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.
CWA (Clean Water Act):	Not applicable

15.3 US State Regulations

California Proposition 65:	This product does not contain any Proposition 65 chemicals.
Massachusetts-RTK:	Not listed
New Jersey-RTK:	Not listed
Pennsylvania-RTK:	Not listed
U.S. State Right-To-Know Regulations:	U.S. State Right-to-Know Regulations: Not applicable

Section 16: Other information

16.1 HMIS

Health hazards:	Not determined
Flammability:	Not determined
Reactivity:	Not determined
Personal protection:	Not determined

16.2 NFPA

Health hazards:	Not determined
Flammability:	Not determined
Stability:	Not determined
Physical and chemical properties:	Not determined

16.3 Further information

This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Users should make independent decisions regarding the completeness of the information based on all sources available. AAT Bioquest shall not be held liable for any damage resulting from handling or from contact with the above product.