



SAFETY DATA SHEET

According to (EC) 1907/2006 amended by Regulation (EU) 2020/878

ACETYLTRIBUTYL CITRATE

Version: 9
Version Date: 17/07/2023

Page: 1/9

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY UNDERTAKING

1.1 Product identifier

Trade name	Allaflex ATBC
Substance name	2-Acetyltributylcitrate
CAS number	77-90-7
REACH registration number	01-2119457265-36
Synonyms	ATBC

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

Uses advised against:	No information available
Applications of the substance:	Chemical intermediate

1.3 Details of the supplier of the safety data sheet

Supplier:
Alliance Chemicals Limited
Old Walls, Chapel Lane, Penselwood, BA9 8LY
United Kingdom
Telephone: +44 (0) 1747841222
Email: sj@alliancechemicals.com
www.alliancechemicals.com

1.4 Emergency telephone number

+44 1865 407333 NCEC 24 hr

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (regulation (EC) No 1272/2008):	Not classified.
Classification (67/548/EEC,1999/45/EC):	Not classified.
Risk advice to man and the environment:	Is a slight irritant to the eye and may cause redness or blurred vision.

For a full text of R phrases mentioned in this Section, see Section 16.

ACETYLTRIBUTYLCITRATE

Version: 9
Version Date: 17/07/2023

Page: 2/9

2.2 Label elements

Label Regulation (EC) 1272/2008:	
Pictogram:	Not applicable.
Signal word:	Not applicable.
Hazard statements:	Not applicable.
Precautionary statements:	Note: These precautionary statements are not prescribed by directive 1272/2008 as this product is not classified as hazardous under this directive. Wash hands thoroughly after handling with soap and water. Wear protective gloves, protective clothing, eye and face protection.

2.3 Other hazards

This substance/ mixture does not meet the PBT criteria of REACH regulation, annex X111
This substance/ mixture does not meet the vPvB criteria of REACH regulation, annex X111
This substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
UFI: Not required, Nano material: Not required.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Chemical Name	CAS-No. EC-No. REACH- No.	Conc. (% w/w)	Classification (REGULATION (EC) No. 1272/2008 (CLP))
2-Acetyltributylcitrate	77-90-7 201-067-0 01-2119457265-36	100	Not classified

3.2 Mixtures

Not applicable

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice:	Where symptoms persist seek medical attention.
If inhaled:	Remove to fresh air immediately.
In case of skin contact:	Remove contaminated clothes and shoes. Wash off immediately with soap and water.
In case of eye contact:	Immediately rinse with water for at least 15 minutes holding the eyelids apart. Get medical attention. If irritation persists.
If swallowed:	Wash mouth out with water and then drink plenty of water. Get medical attention immediately.

ACETYLTRIBUTYLCITRATE

Version: 9
Version Date: 17/07/2023

Page: 3/9

4.2 Most important symptoms and effects, both acute and delayed

Main Symptoms:	Contact with citrate esters may cause mild irritation to skin, eyes, and mucous membrane. This material is not expected to be toxic by inhalation, ingestion, or dermal exposure.
Delayed Effects:	None known.

4.3 Indication of any immediate medical and special treatment needed

Symptomatic treatment. If in doubt get medical attention immediately.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents:	Carbon dioxide (CO ₂), water spray, foam, dry chemical powder.
For safety reasons unsuitable extinguishing agents:	No information available.

5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting/ Specific hazards arising from the chemical:	Hazardous decomposition products formed under fire conditions. Vapours may form explosive mixtures with air.
Combustion products:	Carbon oxides.

5.3 Advice for firefighters

Special protective equipment for firefighters:	Wear self-contained breathing apparatus and protective suit/ eye protection.
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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing.
Avoid contact with the skin and eyes.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not breathe vapours

6.2 Environmental precautions

Do not allow the product to penetrate the ground/soil.
Do not allow the product to reach any water course/ sewage systems.
If the product contaminates water courses/ sewage systems inform the respective authorities.

ACETYLTRIBUTYLCITRATE

Version: 9
Version Date: 17/07/2023

Page: 4/9

6.3 Methods for cleaning up/ Methods for containment

Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, silica gel, universal binder, saw dust) and place in container for disposal according to local/national regulations.

6.4 Reference to other sections

For personal protection see Section 8. For disposal considerations see Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice
Smoking, eating, or drinking should be prohibited when using this product.
Provide sufficient air exchange and/ or exhaust in work rooms.

7.2 Conditions for safe storage including any incompatibilities

Requirements for storage areas and containers:	This product should be stored at ambient temperature in a dry, well-ventilated location. Keep container closed when not in use.
Dangerous incompatibility reactions:	Oxidising materials.

7.3 Specific end use(s)

Exposure scenario:	Not available.
Other information:	Not available.

ACETYLTRIBUTYL CITRATE

Version: 9
Version Date: 17/07/2023

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

DNEL and PNEC	
2-Acetyltributylcitrate (77-90-7)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2 mg/kg bw/day
Long-term - systemic effects, inhalation	7.04 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1 mg/kg bw/day
Long-term - systemic effects, dermal	1.74 mg/m ³
Long-term - systemic effects, inhalation	1 mg/kg bw/day
PNEC (Water)	
PNEC aqua (freshwater)	0.022 mg/l
PNEC aqua (marine water)	0.002 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	41.5 mg/kg dwt
PNEC sediment (marine water)	4.15 mg/kg dwt
PNEC (Soil)	
PNEC soil	8.29 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	1050 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l

8.2 Exposure controls



Engineering controls:	Effective exhaust ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protective equipment	
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment. EN 140, EN 14387.
Hand protection:	Protective gloves. EN 374; butyl rubber, nitrile rubber, PVC, neoprene.
Eye protection:	Safety glasses with side shields. EN166
Skin and body protection:	Impervious clothing. EN ISO 1382. Boots.
Hygiene measures:	Avoid contact with skin, eyes, and clothing. When using do not eat, drink, or smoke. Wash contaminated clothing before re-use
Environmental exposure controls	
General advice:	Prevent product from entering drains and waterways. If contamination occurs inform respective authorities.

ACETYLTRIBUTYL CITRATE

Version: 9
Version Date: 17/07/2023

Page: 6/9

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Form: Colour: Odour:	Liquid (20°C) Colourless Slight odour
Safety data:	pH - Melting/ freezing point - Boiling point - Flash point - Evaporation rate – Flammability - Flammable limits in air - Vapour pressure - Vapour density – Relative density – Water solubility – Partition coefficient – Auto ignition temperature – Decomposition temperature- Viscosity – Explosive properties – Oxidizing properties –	Not available -57°C (@1013 hPa) 170-173°C (@1 hPa) 204°C (tag closed cup). Not available Non flammable Not available 0.07 hPa @ 20°C 14.1 (air = 1). 1.05 @ 20°C Insoluble in water (0.1%) log Pow = 4.29 (calculated) Not available Not available 42.7 mPa's @ 25°C Not available Not available
This safety data only contains information relating to safety and does not replace any product information or product specification		

9.2 Other information

No further relevant information is available.

ACETYLTRIBUTYL CITRATE

Version: 9
Version Date: 17/07/2023

Page: 7/9

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not classified as dangerously reactive.

10.2 Chemical stability

Stable under recommended storage conditions (see Section 7). Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

Vapours may form explosive mixtures with air.

10.4 Conditions to avoid

Conditions to avoid:	Heat, flames, and sparks. Avoid contact with strong oxidizers. Fire or intense heat may cause violent rupture of package.
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10.5 Incompatible materials

Materials to avoid:	Reacts strongly with oxidizers.
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10.6 Hazardous decomposition products

Hazardous decomposition products:	Thermal decomposition will produce carbon monoxide and/or carbon dioxide.
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11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral LD50 (Rat):	>30 ml/ Kg (U.S. EPA HPV, 2003).
Acute Dermal LD50:	Not available.
Acute Inhalation LD50:	Not available.
Respiratory sensitisation:	No known effect.
Skin irritation:	Non-irritating to both intact and abraded skin.
Eye irritation:	Slight irritant in contact with eye.
Mutagenicity:	Negative for mutagenic activity in Ames testing and mouse lymphoma assay, both with and without metabolic activation.
Chronic toxicity/ Carcinogenicity:	No test data is available that indicates this material is a carcinogen.
STOT - single exposure:	No known effect.
STOT - repeated exposure:	NOEL = 100 mg/ Kg body weight/ day.
Aspiration hazard:	Not available.
Additive or synergistic effects:	None known.

ACETYLTRIBUTYLCITRATE

Version: 9
Version Date: 17/07/2023

Page: 8/9

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicology Assessment			
Product/ ingredient name	Result	Species	Exposure
2-Acetyltributylcitrate	LC50: 38-60 mg/ l (U.S. EPA HPV, 2003)	Fish	96 h
	EC50: 7.82 mg/ l (U.S. EPA HPV 2003)	Daphnia	48 h

12.2 Persistence and degradability

2-Acetyltributylcitrate	
Biodegradability:	Expected to be readily biodegradable.

12.3 Bioaccumulative potential

2-Acetyltributylcitrate	
Bioaccumulation:	Not available.

12.4 Mobility in soil

2-Acetyltributylcitrate	
Mobility:	Insoluble in water. Mobility in soil not determined.

12.5 Results of PBT and vPvB assessment

2-Acetyltributylcitrate	
PBT and VPvB assessment:	This substance is not considered to be PBT (Persistent, Bioaccumulative, Toxic) This substance is not considered to be vPvB (very Persistent nor very Bioaccumulative)

12.6 Other adverse effects

2-acetyltributylcitrate – No further information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues/ unused products:	Send to a waste disposal site ensuring conformance with local and national regulations.
Contaminated packaging:	Dispose of in accordance with regional or national regulations.

ACETYLTRIBUTYLCITRATE

Version: 9
Version Date: 17/07/2023

Page: 9/9

14. TRANSPORT INFORMATION

14.1 UN Number:	Not regulated.
14.2 UN Proper Shipping Name:	Not regulated.
14.3 Transport hazard class:	Not regulated.
14.4 Packing Group:	Not regulated.
14.5 Environmental hazards:	Not regulated.
14.6 Special precautions for user:	Not regulated.
14.7 Transport in bulk according to MARPOL73/78 and the IBC code:	Not regulated.

15. REGULATORY INFORMATION

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

EU-Regulations
Not listed on REACH Annex XV11
Not listed on the REACH Candidate list
Not listed on REACH Annex XIV (Authorisation List)
Not listed on the PIC list (Regulation EU 649/2021)
Not listed on POP List (regulation EU 2019/1021)

National Regulations
No additional information available

16. OTHER INFORMATION

Full text of H-statements referred To Under Sections 2 And 3:	Not applicable.
Full text of R-statements referred to under Sections 2 and 3:	Not applicable.

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This information only concerns the above-mentioned product as supplied and may not be valid if used with other materials or in any process. It remains the user's responsibility to make sure the information is appropriate and complete for his special use of the product. This information is accurate to the best of our knowledge and is not to be considered a warranty or quality specification.