TRIETHYL ACETYL CITRATE



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

1.1 Product identifier

Product name: Triethyl Acetyl Citrate

Synonyms / trade name: CITROFOL All, TRIETHYL O-ACETYLCITRATE,

TRIETHYL 2-ACETYLOXYPROPANE1,2,3-

TRICARBOXYLATE

CAS Number: 77-89-4 EC Number: 201-066-5

REACH registration number: 01-2120763425-52-XXXX

REACH registration notes: This product is not classified as hazardous, the

information in this datasheet is given for guidance only.

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

Identified use: Industrial application Cosmetics Pharmaceuticals Paint. Plasticizer

1.3 Details of the supplier of the safety data sheet

Company name: East Harbour Group Ltd

Miranda House, The Quay Harwich, Essex, CO12 3HH

United Kingdom

Telephone: +44 (0) 333 242 0100

Email: info@eastharbourgroup.com

1.4 Emergency telephone number

Emergency telephone: 0800 246 1274

Section 2: Hazardous identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards: Not Classified Health hazards: Not Classified Environmental hazards: Not Classified

2.2 Label elements

EC number 201-066-5

Hazard statement NC Not Classified



2.3 Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

Section 3: Composition/information on ingredients

3.1 Substances

Product name ACETYLTRIETHYL CITRATE REACH registration number 01-2120763425-52-XXXX

REACH registration notes This product is not classified as hazardous, the information in this datasheet is

given for guidance only.

CAS number 77-89-4 EC number 201-066-5

Composition comments The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures

4.1 Description of first aid measures

General information First aid personnel should wear appropriate protective equipment during

any rescue. Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving

any personal risk.

Inhalation Move affected person to fresh air and keep warm and at rest in a position

comfortable for breathing. Rinse nose and mouth with water. Get medical

attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. Give plenty of

water to drink. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if any discomfort continues.

Skin contact Remove contaminated clothing immediately and wash skin with soap and

water. Get medical attention promptly if symptoms occur after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and

open eyelids wide apart. Continue to rinse for at least 15 minutes. Get

medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact May cause temporary eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed



Section 5: Fire-fighting measures

5.1 Fire Fighting Media and Instructions:

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water

foa.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Special hazards When heated, vapours/gases hazardous to health may be formed. Keep

upwind to avoid inhalation of gases, vapours, fumes and smoke.

Hazardous combustion Thermal decomposition or combustion products may include the following

products substances:

Carbon dioxide (CO2), Carbon monoxide (CO).

5.3 Advice for firefighters

Protective actions during fire No action shall be taken without appropriate training or involving any

personal risk. Evacuate firefighting area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers

and watercourses.

Special protective equipment Wear positive-pressure self-contained breathing apparatus (SCBA) and

appropriate protective for firefighters clothing.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken without appropriate training or involving any personal risk. Follow precautions for safe handling described in this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Approach the spillage from upwind. Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Do not touch or walk into spilled material.

6.2 Environmental precautions

Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body

6.3 Methods and material for containment and cleaning up

Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with inert, damp, non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Clean contaminated objects and areas thoroughly, observing environmental regulations.

6.4 Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

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Section 7: Handling and storage

7.1 Precautions for safe handling

Usage precautions Handle all packages and containers carefully to minimise spills. Wear

protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid inhalation of vapours and contact with

skin and eyes.

Advice on general occupational

hygiene

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Provide eyewash station and safety shower.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed, in a cool, well ventilated place. Avoid

excessive heat for prolonged periods of time. Container must be kept tightly closed when not in use. When exposed to air, this product will absorb moisture. Protect from moisture. Store away from the following materials:

Strong oxidising agents

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Ingredient comments

PNEC

No exposure limits known for ingredient(s).

Fresh water; 0.038 mg/l marine water; 0.004 mg/l

Sediment (Freshwater); 0.22 mg/kg

Soil; 0.03 mg/kg

8.2 Exposure controls

Protective equipment





Appropriate engineering controls

Provide adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Avoid inhalation of vapours and contact with skin and eyes. Provide eyewash station and safety shower.

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Eye / face protection Eyewear complying with an approved standard should be worn if a risk

assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of

protection is required, the following protection should be worn:

Tight-fitting safety glasses.

Hand protection Chemical-resistant, impervious gloves complying with an approved

standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Frequent

changes are recommended

Other skin and body protection Wear suitable protective clothing as protection against splashing or

contamination.

Hygiene measures Wash at the end of each work shift and before eating, smoking and using

the toilet. When using do not eat, drink or smoke. Care should be taken to avoid contact with contaminants when removing contaminated clothing.

Wash contaminated clothing before reuse.

Respiratory protection Respiratory protection complying with an approved standard should be

worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use

and is 'CE'-marked. If ventilation is inadequate, suitable respiratory

protection must be worn.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Liquid

Colour Colourless to pale yellow

Odor Characteristic

Odor Threshold

pH

No information available

No information available

Melting Point -45°C

Initial Boiling Point and Range 131°C @ 1013 hPa

Flash Point 188°C Open cup
Evaporation Rate No information available

Evaporation FactorNo information availableFlammability (solid, gas)No information availableUpper/lower flammability or explosive limitsNo information available

Other flammabilityNo information availableVapor Pressure0.01 hPa @ 25°C

Vapor Density

No information available

Relative density 1.135 @ 20°C

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Bulk Density Solubility(ies)

Partition Coefficient Auto-ignition temperature Decomposition temperature Viscosity

Explosive properties

Explosive under the influence of a flame

Oxidising properties

9.2 Other information

Molecular weight

No information available

Miscible with the following materials: Alcohols. Slightly soluble in water. 0.07 g/l water @ 20°C

log Pow: 1.34

No information available No information available 39 mPa s @ 25°C

Not considered to be explosive

No information available

Does not meet the criteria for classification as

oxidising.

318.33 g/mol

Section 10: Stability and Reactivity

10.1 Reactivity There are no known reactivity hazards associated with this product.

10.2 Chemical Stability Stable at normal ambient temperatures and when

used as recommended.

10.3 Possibility of hazardous reactions Under normal conditions of storage and use, no

hazardous reactions will occur.

10.4 Conditions to avoid Avoid excessive heat for prolonged periods of time.

Protect from moisture. When exposed to air, this

product will absorb moisture.

10.5 Incompatible materials Materials to avoid: Avoid contact with strong oxidising

10.6 Hazardous decomposition products Thermal decomposition or combustion products may

include the following substances:

Carbon dioxide (CO2). Carbon monoxide (CO)

Section 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity - oral Notes (oral LD₅₀)

Acute toxicity - dermal Notes (dermal LD₅₀)

Acute toxicity - inhalation Notes (inhalation LC₅₀)

LD₅₀ 7000 mg/kg, Oral, Rat

LD₅₀ > 2000 mg/kg, Dermal, Rabbit Read-across data

No specific test data are available.

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Skin corrosion/irritation Not irritating. Read-across data.

Serious eye damage/irritation Not irritating. Read-across data.

Respiratory sensitisation No information available.

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro

Genotoxicity - in vivo

Ames test: Negative.

No information available.

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available. Reproductive toxicity development No information available.

Specific target organ toxicity - single exposure No information available.

Specific target organ toxicity - repeated exposure No information available.

Aspiration hazard No information available.

Inhalation Gas or vapour in high concentrations may irritate the

respiratory system.

Ingestion This product has low toxicity. No harmful effects

expected from quantities likely to be ingested by accident. May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary

irritation.

Eye contact May cause temporary eye irritation.

Section 12: Ecological Information

Ecotoxicity

Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

12.1 Toxicity

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hour: 38 mg/l, Lepomis macrochirus

(Bluegill) OECD 203 Read-across data.

LC₅₀, 96 hour: 59 mg/l, Fish Read-across data.

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Acute toxicity - aquatic invertebrates EC₅₀, 48 hour: 100 mg/l, Daphnia magna

OECD 202

Acute toxicity - aquatic plants EC₅₀, 72 hour: 100.4 mg/l, Pseudokirchneriella

Subcapitata OECD 201

NOEC, 72 hour: 6 mg/l, Pseudokirchneriella

subcapitata

12.2 Persistence and degradability

Persistence and degradability The product is readily biodegradable.

Biodegradation Activated sludge - Degradation 76%: 28 day

OECD 301F

12.3 Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely

Partition coefficient log Pow: 1.34

12.4 Mobility in soil

Mobility No information available

12.5 Results of PBT and vPvB assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6 Other adverse effects

No information available.

Section 13: Disposal considerations

13.1 Waste treatment methods

General information:

Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Disposal methods:

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority

Section 14: Transport Information

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1 UN number

Not applicable

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14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

No transport warning sign required.

14.4 Packing group

Not applicable

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant: No

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15: Regulatory Information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.