MATERIAL SAFETY DATASHEET

TRIETHYL CITRATE

1. Identification of the substance/mixture and of the company

Product Name : TRIETHYL CITRATE Use of

substance/mixture : Company : Pell Wall Perfumes
Pell Wall
Market Drayton
TF9 2AE
UK

email address : enquiry@pellwall-perfumes.com
telephone +44 792 580511

2. Hazard identification

GHS Classification

Not hazardous according
to EC 1272/2008

GHS Labelling

Symbol :

Signal word :

hazard statements :

precaution statements :

Classification according toEU Directives 67/548/EEC or 1999/45/EC

Not classified as dangerous (Directive 67/548/EEC)
No hazard label required.

3. Composition/information on ingredients

IUPAC name	:	1,2,3-triethyl 2-hydroxypropane-1,2,3-tricarboxylate
Characterisation	:	Esters of Polycarboxcylic acids
Molecular formula	:	C12 H20 O7
Molecular weight	:	276.28
CAS no	:	77-93-0
EINECS no	:	201-070-7
FEMA	:	3083

4. First aid measures

Inhalation	:	In case of excessive inhalation remove the person to fresh air and keep at rest in a comfortable position. Obtain medical advice immediately.
Skin contact	:	Remove contaminated clothing (N.B. wash before re-use). Wash off skin immediately with plenty of water, using soap if available . If any sign of tissue damage or persistant irritation is apparent obtain medical advice immediately
Eye contact	:	Rinse the eyes immediately with plenty of water for at least ten minutes. If any sign of tissue damage or persistant irritation is apparent, obtain medical advice immediately.
Ingestion	:	Rinse mouth with water. Obtain medical advice immediately.

5. Fire-fighting measures

Extinguishing media	:	Carbon dioxide, foam, dry chemical Do not use a direct water jet.
Special hazards	:	CO/CO2, Smoke
Advice for firefighters	:	Avoid inhalation of smoke and fumes. In case of insufficient ventilation wear suitable respiratory equipment.

6. Accidental release measures

Personal precautions	:	Gloves and eye protection should be worn when handling spillages. Avoid skin/eye contact and inhalation of vapour. Good personal washing routines should be followed after accidental release. Ensure adequate ventilation in working areas following accidental release.
Environmental precautions:		Do not allow discharge into drains, soil or any aquatic environment.
Methods for cleaning up	:	Absorb spillages on porous inert material such as earth, sand or vermiculite and dispose of in accordance with local regulations. Large spillages should be contained by the use of sand or another inert material, transferred to a suitable container and recovered or disposed of in accordance with local regulations.

See also sections 8 and 13

7. Handling and storage

Precautions for safe handling:		Handle in accordance with good occupational hygene and safety practices in a well ventilated area. Avoid direct contact with skin and eyes. Depending on working conditions, this may include wearing of eye protection and protective clothing such as PVC gloves and suitable overalls. Wash hands after use Remove protective equipment and contaminated clothing before entering eating areas Avoid breathing vapours especially if the material is hot.
Conditions for safe storage:		Store in full, dry, airtight containers away from sources of heat and light. Do not re-use the empty container.
Uses and applications	:	Fragrances and flavours

8. Exposure controls/personal protection

Exposure parameters	:	No specific exposure limits found
Respiratory Protection	:	Where ventilation may be inadequate, wear self-contained breathing apparatus.
Hand protection	:	Wear impervious gloves.
Skin protection	:	Wear protective clothing.
Eye protection	:	Wear eye protection e.g. Safety glasses/goggles
Engineering measures	:	None found

9. Physical and chemical properties

Appearance	Colourless liquid
Odour	Faint
Odour threshold	Data not available
pH	Data not available
Melting point	-46℃ @ 760 mm/Hg
Initial boiling point	Data not available
Boiling Range	235℃ @ 150 mm/Hg
Flash point	>100℃
Evaporation rate	Data not available
Flammability	Data not available
Upper flammable limit	Data not available
Lower flammable limit	Data not available
Upper explosive limit	Data not available
Lower explosive limit	Data not available
Vapour pressure	0.7 mm/Hg @ 20℃
Vapour Density	9.7 g/l
Relative Density	1.139 @ 20℃
Solubility	Data not available
Partition coefficient n-octanol/water	0.33
Autoignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available
Explosive properties	Data not available
Oxidising properties	Data not available

10. Stability and reactivity

Stability:	Stable at ambient temperatures
Incompatible Materials:	Avoid oxidising agents
Conditions to avoid:	None known
Hazardous Decomposion Products:	No data available

11. Toxocological information

Acute toxicity	LD50 Oral Rat 5900 mg/kg LD50 Dermal Rabbit >5000 mg/kg LC50 Inhalation Rat 1300 ppm 6H
Skin corrosion/irritation	Data not available
Respiratory or skin sensitization	Data not available
Serious eye damage/irritation	Data not available
Germ cell mutagenicity	Data not available
Carcinogencity	Data not available
Reproductive toxicity	Data not available
STOT single exposure	Data not available
STOT repeat exposure	Data not available
Aspiration hazard	Data not available

12. Ecological information

Toxicity data	Data not available
Persistence and degradability data	Data not available
Bioaccumulative potential	Data not available

13. Disposal considerations

No special methods are necessary, but disposal should be in accordance with local regulations.

14. Transport information

Not restricted for transport purposes

15. Regulatory information

This datasheet has been compiled in accordance with 'COMMISSION REGULATION (EU) No 453/2010, Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)'

16. Other information

Changes since the last update

All sections changed due to CLP regulation