



PRODUCT: **ESTASOL/DIBASIC ESTER**.(ES) REVISION: 6 DATED:13/01/15

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PRODUCT SPECIFICATION

Product Name	Estasol
Alternative Name	Dibasic Ester
Specification Reference	ES/6 (08/13/0030020)

SALES SPECIFICATION

Assay as Diesters (wt %)	min 99.0%
Colour	max 15 APHA
Water (wt %)	max 0.05%
Methanol (wt %)	max 0.2%
Acid Value (expressed in mg KOH/g RPDE)	max 0.3

Typical Composition

Dimethyl Glutarate	57 – 73%
Dimethyl Succinate	17 – 28%
Dimethyl Adipate	8 – 22%

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.

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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product Identifier

Trade name	Estasol/Dibasic Ester
Chemical Name	Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate
EC Number	906-170-0
REACH Registration Number	01-2119475445-32-xxxx

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

Identified use(s): Intermediate, Paint Additive, Solvent

Uses advised against No information given

1.3 Details of the supplier of the safety data sheet

Tennants Distribution Limited
Hazelbottom Road
Cheetham
Manchester
M8 0GR
Tel: 44(0)161 205 4454
Fax: 44(0) 161 203 4298
Email: msds@tennantsdistribution.com

1.4 Emergency telephone number

Tel: 44(0) 844 3350001 (24 hours)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Not classified as hazardous for supply

2.2 Label elements

Label In Accordance With (EC) No. 1272/2008
None

Hazard Phrases

Not classified

Precautionary Phrases

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 advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

2.3 Other Hazards

No further information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Reach Registration Number:

Reaction mass of dimethyl adipate, dimethyl glutarate, dimethyl succinate	
Concentration	99 – 100%
CAS No.	Not available
EC No.	906-170-0
REACH Registration No.	01-2119475445-32-xxxx
Classification	Not classified
Methanol	
Concentration	<0.2%
CAS No.	67-56-1
EC No.	200-659-6



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R/H Phrases	H225, H331, H311, H301, H370, R11, R23/24/25, R39/23/24/25
Symbols	GHS02, GHS06, GHS08, F, T
4. FIRST AID MEASURES	
4.1 Description of first aid measures	
General Advice IF exposed or concerned: Get medical advice/attention.	
Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.	
Ingestion IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Give 200-300mls (half pint) water to drink	
Skin contact After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water	
Eye contact If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes and get medical attention	
4.2. Most important symptoms and effects, both acute and delayed This material is not considered hazardous.	
4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.	
5. FIRE FIGHTING MEASURES	
5.1 Extinguishing Media Extinguishing media In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide <i>Unsuitable extinguishing media</i> - High Volume Water Jet Fire run off water should be contained and not allowed to enter the environment.	
5.2 Special hazards arising from the substance or mixture Material is combustible Vapours may ignite	
5.3 Advice for fire-fighters Wear full protective clothing including chemical protection suit Wear Breathing Apparatus Do not use water jet	
6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures Avoid Sparks. Extinguish naked flames. Take precautionary measures against static discharge. Prevent the spilled product coming into contact with sources of flame. Ensure adequate ventilation. Wear protective clothing.	
6.2 Environmental precautions Do not allow to enter public sewers and watercourses. If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities	
6.3 Methods and material for containment and cleaning up Absorb spillage in earth or sand. Collect as much as possible in clean container for reuse or disposal. Seek expert advice for removal and disposal of all contaminated materials and wastes	
6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protective equipment.	
7. HANDLING AND STORAGE	
7.1 Precautions for safe handling Ensure adequate ventilation. Keep away from heat and sources of ignition. The usual precautions for handling chemicals should be observed. Wear eye/face protection	
7.2 Conditions for safe storage, including any incompatibilities Keep away from oxidisers, heat, flames or ignition sources. Keep container tightly closed	
7.3 Specific end use(s) See Section 1	



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

DNEL (inhalational) 8.3 mg/m³
PNEC 0.018 mg/l freshwater
PNEC 0.0018 mg/l seawater
PNEC 0.16 mg/kg freshwater
TWA 260 (Methanol) mg/m³

8.2 Exposure controls

Chemical gloves, goggles and appropriate skin protection should be worn when handling
Engineering controls should be provided to prevent the need for ventilation
Appropriate respiratory protection should be worn for short periods if no extraction available

8.3 Occupational exposure controls

In case of insufficient ventilation, wear suitable respiratory equipment. Wear suitable protective clothing, eye/face protection and gloves

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Colourless
Odour	Slight
Boiling Point	>200°C
Vapour Pressure	0.094 hPa at 25°C
Melting Point	< -50°C
Water Solubility	26 – 41 g/l
Relative Density	1.0915 at 20°C
Flash Point	99°C
Lower Flammability Limit	0.8% (in air)
Upper Flammability Limit	7 – 9% (in air)
Auto Ignition Temperature (°C)	>400°C
Log Pow	1.4
Viscosity	2.85 mPa.s at 20°C

9.2 Other information

No further information

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal temperature conditions and recommended use

Chemical stability

Stable under normal temperature conditions and recommended use.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Avoid contact with oxidising substances

Incompatible materials

Incompatible with strong oxidizing substances. Incompatible with alkalis (strong bases). Incompatible with strong acids

Hazardous decomposition products

Decomposition products may include carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

LD50 (oral, rat) >5000 mg/kg
LCLo (inhalation) : >11 mg/l/4h
LD50 (skin, rat) >2000 mg/kg

Inhalation

Not hazardous
May cause irritation

Contact with skin

May cause irritation

Contact with eyes

May cause irritation



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Ingestion

Not classified as hazardous but the ingestion of significant quantities should be referred to a physician.

Carcinogenicity

No evidence of carcinogenic effects in man

Teratogenicity

No evidence of reproductive effects

Mutagenicity

No evidence of mutagenic effects

12. ECOLOGICAL INFORMATION

12.1. Toxicity

LC50 (fish) 18-24 mg/l (96 hr)

EC50 (Daphnia magna) 112-150 mg/l (48 hr)

IC50 (algae) >85 mg/l (72 hr)

Harmful to aquatic organisms

12.2 Persistence and degradability

Readily biodegradable.

12.3 Bioaccumulative potential

Low bioaccumulation potential

12.4 Mobility in soil

Insoluble in water

This substance is involatile

12.5 Results of PBT and vPvB assessment

Not a PBT according to REACH Annex XIII

12.6 Other adverse effects

No further information

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Incineration by an approved method could be considered

This material and its container must be disposed of as hazardous waste

14. TRANSPORT INFORMATION

Not classified as dangerous goods in accordance with ADR/RID/IMDG/IATA

15. REGULATORY INFORMATION

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

No further information available at this time

15.2 Chemical safety assessment

No information available at this time

16. OTHER INFORMATION

Full text of H-Statements referred to under section 3

H225: Highly flammable liquid and vapour.

H301: Toxic if swallowed.

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

H370: Causes damage to organs.

Full text of R Phrases referred to under section 3

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

Source of key data used to compile the data sheet

Supplier information

Modifications from last revision

The Specification has incurred revision. The Safety Data Sheets remain the same

Date: 13/01/15

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