



PRODUCT: COASOL (COA) REVISION: 2

DATED: 22/06/22

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## PRODUCT SPECIFICATION

Product Name	Coasol
Alternative Name	Reaction mass of diisobutyl adipate and diisobutyl glutarate and diisobutyl succinate

## SALES SPECIFICATION

*Appearance	Pass = Clear, colourless liquid				Test Method: QCM 01
<b>Properties</b>	<b>Units</b>	<b>Min</b>	<b>Max</b>	<b>Typical Values</b>	<b>Test Methods</b>
*Density, 20°C	g/ml	-	-	0.958 – 0.96	ASTM D4052
*Colour Pt-Co	-	-	25	-	ASTM D1209
*Water	%	-	0.2	-	ASTM D1364
*FTIR	% match	99.5	-	-	QCM 09
*D.I.B.A.	%	10	25	-	-
*D.I.B.G	%	55	65	-	-
*D.I.B.S.	%	15	25	-	-
Total Diester content	%	99	-	-	-
*Acidity	mgKOH/g	-	1.0	-	C & FC 100005
Flash Point Boiling	°C	-	-	131	-
Range	°C	-	-	274-289	-
Evaporation Rate	nBac = 1	-	-	<0.001	-
Vapour Pressure 20°C	hPa	-	-	0.004	-

\*Quoted on Certificate of Analysis

Controlled minor variations of published ASTM methods may be applied, and other suitable elemental test methods may sometimes be used

## 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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### Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.



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## SAFETY DATA SHEET

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

#### 1.1 Product Identifier

Product Name COASOL  
Synonyms Reaction mass of diisobutyl adipate and diisobutyl glutarate and diisobutyl succinate  
EINECS Number 907-870-9  
REACH Registration Number 01-2119486562-31-XXXX

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

Identified use(s) Industrial manufacturing (all). Industrial. Uses in coatings, industrial. For industrial use cleaner. Uses in coatings professional. Cleaner. Professional use. Uses in coatings consumer  
Uses advised against No further information provided

#### 1.3 Details of the supplier of the safety data sheet

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

#### 1.4 Emergency telephone number

Tel: 44(0)844 335 0001 (24 hours)

### 2. HAZARDS IDENTIFICATION

Classification (67/548/EEC)	Not classified	
Classification (EC 1272/2008):	Physical	Not classified
	Health	Not classified
	Environmental	Not classified

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name	Reaction mass of diisobutyl adipate and diisobutyl glutarate and diisobutyl succinate
EINECS No.	907-870-9
Reach Registration Number	01-2119486562-31-XXXX

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### General Advice

If you feel unwell, seek medical advice (show the label where possible)  
Take off contaminated clothing immediately. Consult a physician for severe cases

##### Inhalation

Remove affected person from exposure  
Provide fresh air  
If symptoms occur, get prompt medical attention

##### Skin contact

Flush with large amounts of water, use soap of available  
Remove grossly contaminated clothing, including shoes, and launder before reuse  
If symptoms occur, get prompt medical attention

##### Eye contact

Immediately flush eyes with large amounts of water for at least 15 minutes  
Remove contact lenses  
If symptoms occur, get prompt medical attention



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<b>Ingestion</b> If swallowed, DO NOT induce vomiting Keep at rest Get prompt medical attention	
<b>5. FIRE FIGHTING MEASURES</b>	
<b>Extinguishing Media</b> Suitable extinguishing media: Alcohol resistant foam, dry powder, carbon dioxide (CO <sub>2</sub> ), water fog Unsuitable extinguishing media: Water jets	
<b>Special hazards arising from the substance or mixture</b> In combustion, emits fumes, smoke, carbon dioxide (CO <sub>2</sub> ), and carbon monoxide (CO)	
<b>Advice for fire-fighters</b> Wear self-contained breathing apparatus Wear protective clothing to prevent contact with skin and eyes Avoid spraying water directly onto storage containers due to danger of boilover Use water spray to cool surfaces exposed to fire and to protect personnel. If possible, shut off source of fuel to the fire	
<b>6. ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal precautions, protective equipment and emergency procedures</b> Wear appropriate PPE – See Section also 8 Shut off source if possible to do so without hazard. Avoid breathing spray/mist/vapour.	
<b>Environmental precautions</b> Eliminate source of ignition. Prevent liquid from entering sewers, watercourses or low areas. Take measures to minimise the effect on the ground water. Advise local authorities of substance has entered a watercourse or sewer or has contaminated soil or vegetation	
<b>Methods and material for containment and cleaning up</b> Contain spilled liquid with sand or earth. Recover by pumping (use an explosion proof or hand pump) or with a suitable absorbent. Collect in suitably labelled containers. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations	
<b>Reference to other sections</b> See also Section 4 and Section 10 of this SDS	
<b>7. HANDLING AND STORAGE</b>	
<b>Precautions for safe handling</b> Handle and open containers with care. Ensure good ventilation. DO NOT handle near an open flame, sources of heat or sources of ignition. Avoid release to the environment. Avoid handling near drains, unmade ground and open waterways	
<b>Conditions for safe storage, including any incompatibilities</b> Store in a cool, well ventilated place away from incompatible materials – See also Section 10. Keep container closed. DO NOT store near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid storing near drains, unmade ground and open waterways. Suitable materials and coatings: Store in original containers Unsuitable materials and coatings: No further information given Addition Information: DO NOT pressurise, cut, heat or weld containers. Empty product containers may contain product residue. DO NOT reuse empty containers without commercial cleaning or reconditioning. Contain remains hazardous when empty. Continue to observe all precautions	
<b>8. EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>8.1 Control parameters</b>	
Coasol: Contains no substances with occupational exposure limits	
<b>DNEL</b>	
<b>End Use</b>	
Workers	Long term exposure, systemic effects: Inhalation 4.2 mg/m <sup>3</sup>
Consumer	Long term exposure, systemic effects: Inhalation 2.5 mg/m <sup>3</sup>
<b>Predicted No Effect Concentrations (PNEC): butan-1-ol; n-butanol</b> Freshwater = 0.0016mg/l Intermittent releases = 0.016mg/l STP = 0.1mg/l Fresh water sediment = 0.122mg/kg dw marine water = 0.00016 mg/l Marine sediment = 0.0122 mg/kg dw Soil = 0.0236 mg/kg dw	
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b> The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a lab hood. Provide mechanical ventilation of confined spaces	



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**Personal Protection**

**General Advice**

The use and choice of Personal Protective Equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum safety precaution that safety glasses with side shields and work clothes protecting arms, legs and body be used. In addition, any person visiting an area where the product is handled or processed should at least wear safety glasses with side shields. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product

**Respiratory protection**

Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask confirming to EN 136 or EN 140 and EN 143 to protect over exposure by inhalation. Suitable filter material depends on the amount and type of chemicals being handled in the workplace, but filter material of type 'A' or similar may be considered for use

**Hand protection**

When handling this product, it is recommended to wear chemical resistant gloves. The choice of suitable protective gloves depends on work conditions and what chemicals are handled, but there is positive experience with gloves made of PVC or Nitrile. Gloves should be replaced immediately if signs of degradation are observed.

**Eye/Face protection**

See general advice

**Skin/Body protection**

See general advice. In abnormal/emergency situations, it is recommended to wear a chemical resistant suit, rubber boots and a face shield

**Environmental exposure controls**

See also Section 12. If possible use in a closed system. Use in bunded areas only. Advise local authorities if substance has entered watercourse or sewer or has contaminated soil or vegetation

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance	Liquid
Colour	Colourless
Odour	Odourless
Odour Threshold	No data
pH	Not applicable
Melting/Freezing Point	-21°C
Boiling Point/Range	250 – 285°C
Flash Point (Method)	131 °C (Closed cup)
Evaporation Rate (n-butyl acetate = 1)	No data
Flammability	Not flammable
Vapour Pressure	Lower 0.6% (V) Upper 4.7% (V)
Vapour Pressure in air	0.007 mmHG (25°C)
Vapour Density (air = 1)	No data
Density	0.96 g/cm <sup>3</sup> (20°C)
Solubility In Water	0.068 g/l (20°C)
Partition co-efficient (n-octanol/water)	No data
Auto Ignition Temperature	400°C
Decomposition Temperature	No data
Viscosity	5.3 mm <sup>2</sup> /s (25°C)
Explosive Properties	Not explosive
Oxidising Properties	Not an oxidiser

**10. STABILITY AND REACTIVITY**

**Reactivity**

No dangerous reactivity known under the conditions of normal use

**Chemical stability**

Stable under normal conditions of use

**Possibility of hazardous reactions**

Polymerisation will not occur

**Conditions to avoid**

Exposure to the temperatures can cause the product to decompose



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**Incompatible materials**

Strong oxidising agents. Strong acids. Strong bases

**Hazardous decomposition products**

Material does not decompose at ambient temperatures

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

**Acute Oral Toxicity**

LD50 >2000 mg/kg Rat (method not given)

**Acute Dermal Toxicity**

LD50 >2000 mg/kg Rat (male and female) (Method: Information for similar material)

**Acute Inhalation Toxicity**

LC50 >11 mg/l Rat (male and female) (Method: Information for similar material)

**Irritation & Corrosion**

Target Organ Effects	Species	Result	Method
Skin	Not given	Not irritating	Not given
Eyes	Not given	Not irritating	Not given

**Sensitisation**

Target Organ Effects	Species	Result	Method
Skin	Guinea Pig	Not a sensitiser	Not given
Eyes	No data		

**Sub-Acute, Sub-Chronic & Prolonged Toxicity:**

**Developmental toxicity :** Method: Information for similar product

Dose: Not given Species: Laboratory animals Evaluation: No birth defects or foetal effects

**Reproductive toxicity:** Method: Information for similar product

Dose: Not given Species: Animal studies Evaluation: Does not interfere with reproduction or fertility

**Genetic toxicity:** Method: in vitro

Dose: Not given Species: Animal studies Evaluation: Negative

**Other Information**

Negligible inhalation hazard at ambient temperature (-18 to 38oC) or recommended blending temperature

Vapours or aerosols which may be formed at elevated temperatures may be irritating to respiratory tract Avoid breathing vapours or mists

Frequent or prolonged contact may cause mild skin discomfort

May cause slight eye discomfort, but will not injure eye tissue

Low toxicity if swallowed; however swallowing larger amounts may cause injury

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/l in the most sensitive of species)

Species	Endpoint	Exposure Time	Values	Method
Copepod Acartia tonsa	LL50	48h	25 mg/l	Static
Diatom Skeletonema costatum	EL50	72h	7.9 mg/l	Static. Growth rate inhibition

**Persistence and degradability** Expected

to be readily biodegradable **OECD**

**Biodegradation Tests**

Biodegradation	Exposure Time	Method	10 day window
68%	28d	OECD 306	Not applicable
80%	28d	OECD 301D	Not applicable

**Bio accumulative potential**

No data available

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

Not considered to be PBT or vPvB

**Other adverse effects**

None known



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### 13. DISPOSAL CONSIDERATIONS

#### General Information

The user must be aware that the conditions of use may affect the waste classification after use. Please refer to the List of Wastes (England) Regulations 2005 (SI 2005 No. 805) for waste nomenclature  
The following advice only applies to the product as supplied. Combination of other materials may well indicate another route of disposal. If in doubt contact your supplier or the Local Authorities. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licenced contractor. Care should in any case be taken to ensure compliance with EC, national and local regulations

#### 13.1 Waste treatment methods

This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers

### 14. TRANSPORT INFORMATION

This product is not classified for transportation

### 15. REGULATORY INFORMATION

#### EU Directives

- EU. Directive 2012/18/EU (SEVESO TTT) Annex 1- Product does not fall under this legislation.
- Major Accidents Directive 96/82/CEE Solvent emissions Directive
- Drug Precursor Regulation (EC) 273/2004 – not scheduled
- Chemical Weapons Convention – not scheduled
- Export and Import of Dangerous Chemicals Regulation (EC) 689/2008
- Ozone Layer Depletion Regulation (EC) 850/2004 – Not scheduled

#### UK Legislation

- Workplace Exposure Limits EH40/2005 – WEL listed
- The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (CHIP 4)
- The List of Wastes (England) Regulations 2005 (SI 2005 No.895)

#### Chemical safety assessment

A Chemical Safety Assessment has been carried out for this material

### 16. OTHER INFORMATION

#### Abbreviations

WEL: Workplace Exposure Limit

PNEC: Predicted No Effect Concentration

DNEL: Derived No Effect Limit

STP: Sewage Treatment Plant

CAS: Chemical Abstract Service

EINECS: European Inventory of Existing Chemicals

REACH: Registration, Evaluation, authorisation and Restriction of Chemicals Regulations (EC) No. 1907/2006

STOT: Single Target Organ Toxicant

PPE: Personal Protective Equipment

LTEL: Long Term Exposure Limit

STEL: Short Term Exposure Limit

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent Very Bioaccumulative

**Training:** Suitable for those handling industrial chemicals

#### Source of key data used to compile the data sheet

Supplier information

#### Modifications from last revision

Document revised in Section 8, 9, and 15

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