# Anton Paar GmbH

8054 Graz



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SEC		ubstance/mixture and of the company/undertaking				
1.1	Product identifier					
		AP Density Standard Dodecane				
	IUPAC	Dodecane				
	EINECS/ELINCS	203-967-9				
	CAS	112-40-3				
1.2	Relevant identified uses of the	ne substance or mixture and uses advised against				
1.2.1	Relevant uses					
		Density standard Analytics				
1.2.2	Uses advised against					
		None known.				
1.3	Details of the supplier of the	safety data sheet				
	Company	Anton Paar GmbH Anton-Paar-Str. 20 8054 Graz / AUSTRIA Phone +43 (0) 316 257-0 Fax +43 (0) 316 257-257 Homepage www.anton-paar.com E-mail info@anton-paar.com				
	Address enquiries to					
	Technical information	info@anton-paar.com				
	Safety Data Sheet	sdb@chemiebuero.de (No dispatch of safety data sheets)				
		Safety data sheets are available from the supplier.				
1.4	Emergency telephone number					
	Advisory body	Call NHS 111 or a doctor				
	Company	+43 (0) 316 257-0				
SEC	TION 2: Hazards identification	1				
2.1	Classification of the substan	ce or mixture [REGULATION (GB) CLP]				
		Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.				
2.2	Label elements					
		The product is required to be labelled in accordance with regulation CLP.				
	Hazard pictograms					
	Signal word	DANGER				
	Contains:	Dodecane EINECS: 203-967-9				
	Hazard statements	H304 May be fatal if swallowed and enters airways.				
	Precautionary statements	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor. P331 Do NOT induce vomiting. P308+P313 IF exposed or concerned: Get medical advice / attention.				

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#### 2.3 Other hazards

Human health dangers	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Environmental hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other hazards	Further hazards were not determined with the current level of knowledge.

### **SECTION 3: Composition / Information on ingredients**

#### 3.1 Substances

#### The product is a substance.

Range [%] Substance	
100 Dodecane	
	CAS: 112-40-3, EINECS/ELINCS: 203-967-9
GHS/CLP: Asp. Tox. 1: H304 - EUH066	

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.

#### 3.2 Mixtures

not applicable

#### SECTION 4: First aid measures

4.1	Description of first aid measures		
	General information	Take off contaminated clothing and wash before reuse.	
	Inhalation	Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.	
	Skin contact	When in contact with the skin, clean with soap and water. If skin irritation or rash occurs: Get medical advice/attention.	
	Eye contact	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.	
	Ingestion	Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Consult a doctor immediately. Never give anything by mouth to an unconscious person.	
4.2	2 Most important symptoms and effects, both acute and delayed		
		None known.	

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### Treat symptomatically.

If swallowed or in the event of vomiting, risk of product entering the lungs.

## SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media	Foam, dry powder, water spray jet, carbon dioxide
Extinguishing media that must not be used	Full water jet

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5.2 Special hazards arising from the substance or mixture		
		Carbon monoxide (CO)
		Carbon dioxide (CO2)
.3	Advice for firefighters	
		Use self-contained breathing apparatus.
		Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.
SEC	CTION 6: Accidental release measu	ures
6.1	Personal precautions, protective	e equipment and emergency procedures
		Ensure adequate ventilation.
		Use personal protective clothing.
		High risk of slipping due to leakage/spillage of product.
		Remove persons to safety.
6.2	Environmental precautions	
		Do not discharge into the drains/surface waters/groundwater.
6.3 Methods and material for containment and cleaning up		nment and cleaning up
		Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.
6.4	Reference to other sections	
		See SECTION 8+13
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
	Ū.	Use only in well-ventilated areas.
		Provide good room ventilation even at ground level (vapours are heavier than air).
		Avoid contact with eyes and skin. Use personal protective equipment.
		Place the container in an upright position and protect it against falling over.
		Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.
		Take off contaminated clothing and wash before reuse.
		Do not eat, drink or smoke when using this product.
		Wash face and/or hands before break and end of work. Use barrier skin cream.
7.2	Conditions for safe storage, incl	Keep only in original tightly closed container.
		Do not store together with oxidizing agents.
		Keep container tightly closed. Keep container in a well-ventilated place.
		Store in a dry place.
		Recommended storage temperature: room temperature.
7.3	Specific end use(s)	
	,	See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection **Control parameters** 8.1 Ingredients with occupational exposure limits to be monitored (GB) not relevant Ingredients with occupational exposure limits to be monitored (EU) not relevant 8.2 Exposure controls Additional advice on system design Ensure adequate ventilation on workstation. Eye protection If there is a risk of splashing: Tightly fitting goggles (EN 166:2001). Hand protection The details concerned are recommendations. Please contact the glove supplier for further information. 0.4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3). Skin protection Protective clothing (EN 340) Other Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. **Respiratory protection** In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387) Thermal hazards none Delimitation and monitoring of the Comply with applicable environmental regulations limiting discharge to air, water and soil. environmental exposition

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SEC	SECTION 9: Physical and chemical properties		
9.1	Information on basic physical and chemical properties		
	Physical state	liquid	
	Form	liquid	
	Color	colourless	
	Odor	characteristic	
	Odour threshold	not applicable	
	pH-value	not applicable	
	pH-value [1%]	not applicable	
	Boiling point [°C]	215 - 217	
	Flash point [°C]	70	
	Flammability	not applicable	
	Lower explosion limit	0.6 Vol. %	
	Upper explosion limit	No information available.	
	Oxidising properties	no	
	Vapour pressure/gas pressure [kPa]	0.02 (25°C)	
	Density [g/cm <sup>3</sup> ]	0.75	
	Relative density	not determined	
	Bulk density [kg/m³]	not applicable	
	Solubility in water	insoluble	
	Solubility other solvents	No information available.	
	Partition coefficient [n-octanol/water]	6.98 (25°C)	
	Kinematic viscosity	1.98 mm²/s (20°C)(ECHA)	
	Relative vapour density	No information available.	
	Evaporation speed	No information available.	
	Melting point [°C]	-9.6	
	Auto-ignition temperature [°C]	No information available.	
	Decomposition temperature [°C]	No information available.	
	Particle characteristics	not applicable	
9.2	Other information		
		none	

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

Vapours can form an explosive mixture with air.

## 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

Forms explosive mixtures with air on intense heating.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

## 10.5 Incompatible materials

Oxidizing agent

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### **10.6 Hazardous decomposition products**

No dangerous reactions known if used as directed. In the event of fire: See SECTION 5.

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SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

### Acute oral toxicity

 Substance

 Dodecane, CAS: 112-40-3

 LD50, oral, Rat, > 5000 mg/kg (OECD 401)

#### Acute dermal toxicity

Substance
Dodecane, CAS: 112-40-3
LD50, dermal, Rabbit, > 3160 mg/kg (OECD 402)
LD50, dermal, Rat, > 2000 mg/kg (OECD 402)

#### Acute inhalational toxicity

Substance	
Dodecane, CAS: 112-40-3	
LC50, inhalative, Rat, > 4.9 mg/l/4h (OECD 403)	

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

S	ubstar	nce	
_			 

Dodecane, CAS: 112-40-3 Eye, Rabbit, OECD 405, non-irritating

#### Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

		Substance
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Dodecane, CAS: 112-40-3

dermal, Rabbit, OECD 404, irritant

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance	
Dodecane, CAS: 11	2-40-3
dermal, Guinea pig	OECD 406, non-sensitizing
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — Based on the available information, the classification criteria are not fulfilled.

repeated exposure

Substance
Dodecane, CAS: 112-40-3
NOAEL, oral, Rat, >= 1000 mg/kg bw/day, OECD 422, adverse effect observed

NOAEL, oral, Rat, >= 5000 mg/kg bw/day, OECD 408, adverse effect observed

#### Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance		
Dodecane, CAS: 112-40-3		
in vitro, Ames-test, negativ		
in vitro, OECD 473, negativ		







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Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.			
- Fertility				
Substance	112-40-3			
Dodecane, CAS: 1				
NOAEC, oral, Rat, 1000 mg/kg bw/day, OECD 422, no adverse effect observed				
- Development				
Substance				
Dodecane, CAS: 1	12-40-3			
NOAEC, inhalative	, Rat, 5220 mg/m³, OECD 414, no adverse effect observed			
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.			
Substance				
Dodecane, CAS: 1	12-40-3			
NOAEC, inhalative	, Mouse (male), > 2200 mg/m <sup>3</sup> , OECD 453, no adverse effect observed			
Aspiration hazard	Based on available data, the classification criteria are met. On basis of test data			
General remarks				
	The toxicity data listed pertaining to the ingredients are intended for those workin medicinal professions, experts for occupational health and safety and toxicologis toxicity data pertaining to the ingredients were supplied by the manufacturers of	sts. The		
11.2 Information on other hazards				
Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.			
Other information	none			
SECTION 12: Ecological information				
12.1 Toxicity				

Substance	
Dodecane, CAS: 112-40-3	
LC50, (96h), Oncorhynchus mykiss, > 1000 mg/l (OECD 203)	
EC50, (72h), Pseudokirchneriella subcapitata, > 1000 mg/l (OECD 201)	

# 12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	OECD 301F: 76%. 28d - The product is readily biodegradable.

# 12.3 Bioaccumulative potential

No information available.

# 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

# 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

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#### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment or into the drainage.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product	
	Coordinate disposal with the authorities if necessary.
Waste no. (recommended)	070104* 160508*
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling. Contaminated packing should be disposed of as product waste.
Waste no. (recommended)	150110* packaging containing residues of or contaminated by hazardous substances

#### SECTION 14: Transport information

#### 14.1 UN number or ID number

14.1		
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.2	UN proper shipping name	
	Transport by land according to ADR/RID	NO DANGEROUS GOODS
	Inland navigation (ADN)	NO DANGEROUS GOODS
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

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14.3	Transport hazard class(es) Transport by land according to ADR/RID	not	applicable
	Inland navigation (ADN)	not	applicable
	Marine transport in accordance with IMDG	not	applicable
	Air transport in accordance with IATA	not	applicable
14.4	Packing group		
	Transport by land according to ADR/RID	not	applicable
	Inland navigation (ADN)	not	applicable
	Marine transport in accordance with IMDG	not	applicable
	Air transport in accordance with IATA	not	applicable
14.5	Environmental hazards		
	Transport by land according to ADR/RID	no	
	Inland navigation (ADN)	no	
	Marine transport in accordance with IMDG	no	
	Air transport in accordance with IATA	no	
14.6	Special precautions for user		

Relevant information under SECTION 6 to 8.

### 14.7 Maritime transport in bulk according to IMO instruments

#### not applicable

# SECTION 15: Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014 TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023) NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP. - Observe employment restrictions for people Observe employment restrictions for young people. - VOC (2010/75/CE) 100%

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Date printed 19.04.2023, Revision 19.04.2023 Page 11 / 12 Version 2.0. Supersedes version: 1.0 15.2 Chemical safety assessment A chemical safety assessment is not yet available for this substance. SECTION 16: Other information 16.1 Hazard statements (SECTION 3) EUH066 Repeated exposure may cause skin dryness or cracking. H304 May be fatal if swallowed and enters airways. 16.2 Abbreviations and acronyms: ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure ATE = acute toxicity estimate CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community EINECS = European Inventory of Existing Commercial Chemical Substances EL50 = Median effective loading ELINCS = European List of Notified Chemical Substances EmS = Emergency Schedules GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods IUCLID = International Uniform ChemicaL Information Database IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0% LOAEL = lowest-observed-adverse-effect level LL50 = Median lethal loading LQ = Limited Quantities MARPOL = International Convention for the Prevention of Marine Pollution from Ships NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration PBT = Persistent, Bioaccumulative and Toxic substance PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals STP = Sewage Treatment Plant TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative

# 16.3 Other information

**Classification procedure** 

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data)

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Modified position	SECTION 2 been added: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
	SECTION 2 been added: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
	SECTION 2 been added: The product is a hydraulic material. When mixed with water, an intended reaction takes place. As a result, the product hardens and forms a solid mass, which does not react with its environment.
	SECTION 10 been added: Forms explosive mixtures with air on intense heating.
	SECTION 10 been added: Vapour/air-mixtures are explosive at intense warming.
	SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.
	SECTION 12 been added: Based on all available information not to be classified as PBT or vPvB respectively.
	SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.
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