8054 Graz

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Anton Paar

.1		
	Product identifier	
		AP Density Standard Dodecane
	IUPAC	Dodecane
	EINECS/ELINCS	203-967-9
	CAS	112-40-3
1.2	Relevant identified uses of t	he substance or mixture and uses advised against
1.2.1	Relevant uses	
		Density standard Analytics
1.2.2	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 numb	er
	Advisory body	Call NHS 111 or a doctor
	Company	+43 (0) 316 257-0
SEC	TION 2: Hazards identification	n
2.1	Classification of the substar	nce 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.
	Special labelling	EUH066 Repeated exposure may cause skin dryness or cracking.
2.3	Other hazards	
2.3	Other hazards Environmental hazards	Contains no ingredients with endocrine-disrupting properties. Does not contain any PBT or vPvB substances.

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3.1 Substances Fre 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 For full text of H-statements: see SECTION 16. 3.2 Mixtures not applicable SECTION 4: 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 pres 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 voriting. Consult a doctor intimediately. Never give anything by mouth to an unconscious person. 4.2 Most important symptoms and effects, both acute and delayed None known. 4.3 Indication of an vimmediate medical attention and special treatment needed	present and easy	
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4.3 Indication of any immediate medical attention and special treatment needed		
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 Full water jet be used		
5.2 Special hazards arising from the substance or mixture		
Carbon monoxide (CO)		
Carbon dioxide (CO2)		
5.3 Advice for firefighters		
Use self-contained breathing apparatus.		
Gool containers at risk with water spray jet.		
Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into	nto the drains.	
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6.2 Environmental precautions		
	Do not discharge into the drains/surface waters/groundwater.	
6.3 Methods and material for containr	nent and cleaning up	
	Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous ea Dispose of absorbed material in accordance within the regulations.	ırth).
6.4 Reference to other sections		
	See SECTION 8+13	
SECTION 7: Handling and storage		
7.1 Precautions for safe handling		
	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, inclu	ding any incompatibilities	
	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	
SECTION 8: Exposure controls / persor	nal protection	
8.1 Control parameters		

Ingredients with occupational exposure limits to be monitored (UK)

not relevant

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

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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 environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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 or initial boiling point and boiling range [°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 ³]	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 (log value)	6,98 (25°C)
Kinematic viscosity	1,98 mm²/s (20°C)(ECHA)
Relative vapour density	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

Safety Data Sheet (UK REACH) (UK) AP Density Standard Dodecane

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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

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, Rat, > 2000 mg/kg (OECD 402)	
LD50, dermal, Rabbit, > 3160 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.

C	Substance
	Dodecane, CAS: 112-40-3
	Eve. Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

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

Substance
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: 112-40-3	
dermal, Guinea pig, OECD 406, non-sensitizing	

Specific target orga single exposure	an toxicity —	Based on the available information, the classification criteria are not fulfilled.
Specific target orga repeated exposure		Based on the available information, the classification criteria are not fulfilled.
	Substance	

Dodecane, CAS: 112-40-3
NOAEL, oral, Rat, >= 5000 mg/kg bw/day, OECD 408, adverse effect observed
NOAEL, oral, Rat, >= 1000 mg/kg bw/day, OECD 422, adverse effect observed

Mutagenicity

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

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

Reproduction toxicity

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

- Fertility

Substance	
Dodecane, CAS: 112-40-3	
NOAEC, oral, Rat, 1000 mg/kg bw/day, OECD 422, no adverse effect observed	



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 - Development
 Substance

	Substance	
	Dodecane, CAS: 112-40-3	
	NOAEC, inhalative, Rat, 5220 mg/m ³ , OECD 414, no adverse effect observed	
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.	
	Substance	
	Dodecane, CAS: 112-40-3	
	NOAEC, inhalative, Mouse (male), > 2200 mg/m ³ , 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 working in medicinal professions, experts for occupational health and safety and toxicologists. toxicity data pertaining to the ingredients were supplied by the manufacturers of raw	The
11.2 Information on c	ther hazards	
11.2.1 Endocrine d properties	isrupting Contains no ingredients with endocrine-disrupting properties.	
11.2.2 Other inform	nation none	
SECTION 12: Ecologie	cal 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.

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.

Safety Data Sheet (UK REACH) (UK)

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Product

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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. Coordinate disposal with the authorities if necessary. 070104* 160508* Uncontaminated packaging may be taken for recycling. Contaminated packing should be disposed of as product waste.

150110* packaging containing residues of or contaminated by hazardous substances

Waste no. (recommended) **SECTION 14: Transport information**

Waste no. (recommended)

Contaminated packaging

SEC	HON 14: Transport information	
14.1	UN number or ID number 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"
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



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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

.1 Safety, health and environmenta	l regulations/legislation specific for the substance or mixture
EEC-REGULATIONS	2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- Comment on component parts	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%
- Annex XIV (REACH)	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contai any substances \geq 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances \geq 0.1% that are restricted.
TRANSPORT-REGULATIONS	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)
NATIONAL REGULATIONS (UK):	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%

15.2 Chemical safety assessment

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.

Safety Data Sheet (UK REACH) (UK) AP Density Standard Dodecane

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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 Modified position

Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (On basis of test data) none

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