DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : DisboPUR 924 PHS Comp. A RAL7032

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

Use of the Substance/Mixture : Polyurethane-resin-based coating material, solvent-containing

Recommended restrictions on use : within adequate application - none

1.3 Details of the supplier of the safety data sheet

Company : Disbon GmbH
Roßdörfer Straße 50
64372 Ober-Ramstadt

Telephone : +496154710

Telefax : +4961547170222

E-mail address Responsible/issuing person : msds@dr-rmi.com

1.4 Emergency telephone

Emergency telephone 1 : +49613284463 GBK GmbH

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal Word : Warning

Hazard Statements :
H226 Flammable liquid and vapor.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours/ spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection.

Hazardous ingredients which must be listed on the label:

xylene
Acrylic copolymer
bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexan-1,2-diylbiscarbamate
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
hexahydromethylphthalic anhydride

Additional Labeling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other 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.

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Asp. Tox. 1; H304 STOT RE 2; H373	>= 10 - < 20
titanium dioxide	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	>= 1 - < 10
Acrylic copolymer	Not Assigned	Skin Irrit. 2; H315 Skin Sens. 1B; H317	>= 1 - < 10
bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexan-1,2-diylbiscarbamate	59719-67-4 261-879-6 01-2119983487-19	Eye Irrit. 2; H319 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 2,5 - < 10
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
hexahydromethylphthalic anhydride	25550-51-0 247-094-1 607-241-00-6 01-2119845474-33	Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317	>= 0,1 - < 1
dibutyltin dichloride	683-18-1 211-670-0 050-022-00-X 01-2119496066-31	Acute Tox. 4; H312 Acute Tox. 3; H301 Skin Corr. 1B; H314 Muta. 2; H341 Repr. 1B; H360FD STOT RE 1; H372 Aquatic Chronic 1; H410 Acute Tox. 2; H330 M-Factor (Acute aquatic toxicity): 10	>= 0,025 - < 0,1

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

		M-Factor (Chronic aquatic toxicity): 10 specific concentration limit Skin Corr. 1B; H314 >= 5 % Skin Irrit. 2; H315 0,01 - < 5 % Eye Dam. 1; H318 3 - < 5 % Eye Irrit. 2; H319 0,01 - < 3 %	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : Show this material safety data sheet to the doctor in attendance.
When symptoms persist or in all cases of doubt seek medical advice.
Move out of dangerous area.
First aider needs to protect himself.
Never give anything by mouth to an unconscious person.

If inhaled : Call a physician.
If breathing is irregular or stopped, administer artificial respiration.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
Move to fresh air.

In case of skin contact : Do NOT use solvents or thinners.
In case of contact, immediately flush skin with soap and plenty of water.
Take off all contaminated clothing immediately.

In case of eye contact : If eye irritation persists: Get medical advice/ attention.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
If accidentally swallowed obtain immediate medical attention.
If swallowed, DO NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Foam
Carbon dioxide (CO2)

Unsuitable extinguishing media : Water

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.
In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Standard procedure for chemical fires.
In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Evacuate personnel to safe areas.

Ensure adequate ventilation.
Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.
,For personal protection see section 8.,For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
Avoid exceeding the given occupational exposure limits (see section 8).
Provide sufficient air exchange and/or exhaust in work rooms.
Contains isocyanates. Please, attend to producer's advice.
Liquid product may irritate and sensitize skin and respiratory tract and may cause allergic reaction. Do not inhale vapours.
Take care for sufficient fresh air supply during and after use.
Product must not be sprayed. Allergics or persons tending to respiratory tract diseases must not be involved in operations with this product.

In addition, the current technical information for this product and its application on www.caparol.com must be observed.

Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Vapors are heavier than air and may spread along floors. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Keep working clothes separately. Remove and wash contaminated clothing before re-use. Avoid contact with the skin and the eyes. Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product.

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Specific use(s) : This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		STEL	100 ppm 442 mg/m3	2000/39/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		TWA	50 ppm 220 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	100 ppm 441 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40
dibutyltin dichloride	683-18-1	TWA	0,1 mg/m3 (Tin)	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	0,2 mg/m3 (Tin)	GB EH40
	Further information: Can be absorbed through the skin. The assigned sub-			

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

	stances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methyl hippuric acid: 650 Millimo-les per mole Creat-inine (Urine)	After shift	GB EH40 BAT

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo-sure	Potential health ef-fects	Value
xylene	Consumers	Inhalation	Acute local effects	174,00 mg/m3
	Consumers	Skin contact	Long-term systemic effects	108,00 mg/kg bw/day
	Consumers	Inhalation	Acute systemic ef-fects	174,00 mg/m3
	Consumers	Ingestion	Long-term systemic effects	1,60 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	14,80 mg/m3
	Workers	Inhalation	Acute systemic ef-fects	289,00 mg/m3
	Workers	Inhalation	Acute local effects	289,00 mg/m3
	Workers	Inhalation	Long-term systemic effects	77,00 mg/m3
	Workers	Skin contact	Long-term systemic effects	180,00 mg/kg bw/day
titanium dioxide	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day
	Workers	Inhalation	Long-term local ef-fects	10,00 mg/m3
bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexan-1,2-diylbiscarbamate	Consumers	Inhalation	Long-term systemic effects	6,25 mg/m3
	Consumers	Skin contact	Long-term systemic effects	8,30 mg/kg bw/day
	Consumers	Inhalation	Long-term local ef-fects	50,00 mg/m3
	Consumers	Ingestion	Long-term systemic effects	4,20 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	29,40 mg/m3
	Workers	Inhalation	Long-term local ef-fects	150,00 mg/m3

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

	Workers	Skin contact	Long-term systemic effects	16,70 mg/kg bw/day
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Consumers	Inhalation	Acute local effects	0,58 mg/m3
	Consumers	Ingestion	Long-term systemic effects	1,25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,58 mg/m3
	Consumers	Inhalation	Acute systemic effects	0,58 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1,25 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	1,25 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	1,25 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	2,35 mg/m3
	Workers	Inhalation	Acute local effects	2,35 mg/m3
	Workers	Inhalation	Long-term systemic effects	2,35 mg/m3
	Workers	Skin contact	Acute systemic effects	2,50 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	2,50 mg/kg bw/day
hexahydro-methylphthalic anhydride	Consumers	Ingestion	Long-term systemic effects	45,00 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	45,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	19,60 mg/m3
	Workers	Inhalation	Long-term systemic effects	79,30 mg/m3
	Workers	Skin contact	Long-term systemic effects	90,00 mg/kg bw/day
dibutyltin dichloride	Consumers	Ingestion	Long-term systemic effects	0,00 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	0,50 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	0,02 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0,08 mg/kg bw/day

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

	Consumers	Ingestion	Acute systemic effects	0,01 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	0,07 mg/m3
	Workers	Inhalation	Long-term systemic effects	0,01 mg/m3
	Workers	Skin contact	Acute systemic effects	1,00 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	0,20 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,00 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
xylene	Fresh water	0,327 mg/l
	Intermittent use/release	0,327 mg/l
	Soil	2,31 mg/kg dry weight (d.w.)
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Sewage treatment plant	6,58 mg/l
	Sea water	0,327 mg/l
	Sea sediment	12,46 mg/kg dry weight (d.w.)
titanium dioxide	Sewage treatment plant	100 mg/l
	Fresh water	0,184 mg/l
	Soil	100 mg/kg dry weight (d.w.)
	Sea water	0,0184 mg/l
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
	Sea sediment	100 mg/kg dry weight (d.w.)
	Intermittent use/release	0,193 mg/l
bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexan-1,2-diylbiscarbamate	Sewage treatment plant	89,4 mg/l
	Fresh water	0,0186 mg/l
	Sea sediment	0,0709 mg/kg dry weight (d.w.)
	Sea water	0,00186 mg/l
	Intermittent use/release	0,186 mg/l
	Soil	0,131 mg/kg dry weight (d.w.)
	Fresh water sediment	0,709 mg/kg dry weight (d.w.)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) seba-	Sea water	0,00022 mg/l

cate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
	Soil	0,21 mg/kg dry weight (d.w.)
	Fresh water	0,0022 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	1,05 mg/kg dry weight (d.w.)
	Intermittent use/release	0,009 mg/l
	Sea sediment	0,11 mg/kg dry weight (d.w.)
hexahydromethylphthalic anhydride	Fresh water	0,1 mg/l
	Soil	0,603 mg/kg dry weight (d.w.)
	Sea water	0,01 mg/l
	Intermittent use/release	1 mg/l
	Sewage treatment plant	2,19 mg/l
	Sea sediment	0,269 mg/kg dry weight (d.w.)
	Fresh water sediment	2,69 mg/kg dry weight (d.w.)
dibutyltin dichloride	Fresh water	0,000843 mg/l
	Intermittent use/release	0,00843 mg/l
	Soil	0,00181 mg/kg dry weight (d.w.)
	Secondary Poisoning	0,2 mg/kg food
	Fresh water sediment	0,006526 mg/kg dry weight (d.w.)
	Sewage treatment plant	0,115 mg/l
	Sea sediment	0,000653 mg/kg dry weight (d.w.)
	Sea water	0,000084 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Hand protection
- Material : butyl-rubber
- Glove thickness : 0,3 mm
- Protective index : Class 3
- Wearing time : 30 min

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

Skin and body protection	:	Safety shoes Long sleeved clothing Remove and wash contaminated clothing before re-use. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Skin should be washed after contact.
Respiratory protection	:	During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	Not relevant
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	33 °C
Autoignition temperature	:	not determined
Decomposition temperature	:	Not applicable
pH	:	6,95 Concentration: 10 %
Viscosity		
Viscosity, dynamic	:	No data available

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Vapor pressure	:	not determined
Relative density	:	not determined
Density	:	1,7 g/cm3
Relative vapor density	:	not determined

9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	Not applicable
Flammability (liquids)	:	Sustains combustion
Evaporation rate	:	Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Amines and alcohols cause exothermic reactions.
Mixture reacts slowly with water resulting in evolution of CO2.

10.4 Conditions to avoid

Conditions to avoid : Exposure to water vapor.
Protect from frost, heat and sunlight.

10.5 Incompatible materials

Materials to avoid : Amines
Incompatible with oxidizing agents.
Incompatible with acids and bases.

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity	:	Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Based on available data, the classification criteria are not met. Acute toxicity estimate: > 20000 ppm Exposure time: 4 h Test atmosphere: gas Method: Calculation method
Acute dermal toxicity	:	Remarks: Based on available data, the classification criteria are not met. Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method

Components:

xylene:

Acute inhalation toxicity	:	LC50 (Rat): 5000 ppm Exposure time: 4 h Test atmosphere: gas

Skin corrosion/irritation

Product:

Remarks	:	May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks	:	Vapors may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

Product:

Remarks : Causes sensitization.

11.2 Information on other hazards

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Components:

dibutyltin dichloride:

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : 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.

12.6 Endocrine disrupting properties

No data available

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

12.7 Other adverse effects

Product:

Additional ecological information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.

Uncured product residues and unpurified packaging should be disposed of as hazardous waste.
Waste should not be disposed of via wastewater.

Material residues: Allow the basic substance to harden with hardener and dispose of as paint waste.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product
080111*, waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1263

RID : UN 1263

IMDG : UN 1263

IATA : UN 1263

14.2 UN proper shipping name

ADR : PAINT

RID : PAINT

IMDG : PAINT

IATA : Paint

14.3 Transport hazard class(es)

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

ADR : 3

RID : 3

IMDG : 3

IATA : 3

14.4 Packing group

ADR

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3
Tunnel restriction code	:	(D/E)

RID

Packing group	:	III
Classification Code	:	F1
Hazard Identification Number	:	30
Labels	:	3

IMDG

Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E

IATA (Cargo)

Packing instruction (cargo aircraft)	:	366
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	Flammable Liquids

IATA (Passenger)

Packing instruction (passenger aircraft)	:	355
Packing instruction (LQ)	:	Y344
Packing group	:	III
Labels	:	Flammable Liquids

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	hexahydromethylphthalic anhydride

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	P5c	FLAMMABLE LIQUIDS

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
P5c FLAMMABLE LIQUIDS

Volatile organic compounds : < 14 %
< 230 g/l

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of H-Statements

H226 : Flammable liquid and vapor.
H301 : Toxic if swallowed.

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

H304	:	May be fatal if swallowed and enters airways.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H330	:	Fatal if inhaled.
H332	:	Harmful if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	:	May cause respiratory irritation.
H341	:	Suspected of causing genetic defects.
H351	:	Suspected of causing cancer if inhaled.
H360FD	:	May damage fertility. May damage the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure if swallowed.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
H411	:	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Muta.	:	Germ cell mutagenicity
Repr.	:	Reproductive toxicity
Resp. Sens.	:	Respiratory sensitization
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitization
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	:	UK. Biological monitoring guidance values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

DisboPUR 924 PHS Comp. A RAL7032

Version	Revision Date:	Print Date	Date of last issue: -
1.0	14.09.2021	23.09.2021	Date of first issue: 14.09.2021

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information:
No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.
Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

Sources of key data used to compile the Material Safety Data Sheet:
ECHA WebSite
ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH
NIOSH - Registry of toxic effects of chemical substances
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX'S - Dangerous properties of industrial materials
GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)
Toxnet - Toxicology Data Network

Classification of the mixture:		**Classification procedure:**
Flam. Liq. 3	H226	Based on product data or assessment
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Chronic 3	H412	Calculation method

DisboPUR 924 PHS Comp. A RAL7032

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.
Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

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