according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

Carsystem Felgensilber

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

1.1 Product identifier

Trade name : Carsystem Felgensilber

Product code : 126.021

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

Use of the Sub- : Paints

stance/Mixture

Recommended restrictions : Industrial use, professional use

on use

1.3 Details of the supplier of the safety data sheet

Company : JASA AG

Müslistrasse 43 8957 Spreitenbach

Schweiz

info@jasa-ag.ch, www.jasa-ag.ch

Telephone : +41 (0)44 431 60 70 Telefax : +41 (0)44 432 63 17

Responsible Department : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

1.4 Emergency telephone

Telephone : Tox Info Suisse (STIZ), Tel: 145

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Eye irritation, Category 2 H319: Causes serious eye irritation.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous

system

H336: May cause drowsiness or dizziness.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal Word : Danger

Hazard Statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin dryness or

cracking.

Buildup of explosive mixtures possible without

sufficient ventilation.

Precautionary Statements :

P101 If medical advice is needed, have product con-

tainer or label at hand.

P102 Keep out of reach of children.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition

source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P271 Use only outdoors or in a well-ventilated area.

Storage:

P410 + P412 Protect from sunlight. Do not expose to tem-

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peratures exceeding 50 °C/ 122 °F.

Disposal:

P501 Dispose of contents/ container to an approved

facility in accordance with local, regional, national

and international regulations.

Hazardous ingredients which must be listed on the label:

acetone

n-butyl acetate

2-methoxy-1-methylethyl acetate

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.

Ecological information: 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.

Toxicological information: 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 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : aerosol Mixture

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	>= 25 - < 50
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 5 - < 10
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9	Flam. Liq. 3; H226 STOT SE 3; H336	>= 5 - < 10

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Reaction mass of ethylbenzene and xylene	607-195-00-7 01-2119475791-29 Not Assigned 905-588-0 01-2119486136-34, 01-2119488216-32, 01-2119539452-40	(Central nervous system) Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304 specific concentration limit STOT RE 2 >= 10 %	>= 1 - < 2,5
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 2,5
Substances with a workplace expo	sure limit :		
dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas 1A; H220 Press. Gas Compr. Gas; H280	>= 20 - < 25

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice : First aider needs to protect himself.

Remove from exposure, lie down.

If unconscious, place in recovery position and seek medical

advice.

Take off contaminated clothing and shoes immediately.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.

If symptoms persist, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

diately with plenty of water, also under the eyelids, for at least

15 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Swallowing is not regarded as a possible method for expo-

sure.

Immediately give large quantities of water to drink.

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Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye irritation.

May cause drowsiness or dizziness.

Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder Water spray jet Alcohol-resistant foam

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

Vapors may form explosive mixtures with air.

Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

Hazardous combustion prod: :

ucts

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

5.3 Advice for firefighters

Special protective equipment:

for fire-fighters

Use personal protective equipment. Wear suitable respiratory

protection equipment.

Further information : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. Use water spray to cool unopened containers.

In the event of fire and/or explosion do not breathe fumes.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

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Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Avoid inhalation of vapor or mist.

Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate the area.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Local/Total ventilation : Ensure adequate ventilation.

Advice on safe handling : Pressurized container: Protect from sunlight and do not ex-

pose to temperatures exceeding 50°C / 122 °F. Also after use,

do not open with force or burn.

Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Keep away from open flames, hot surfaces and sources of

ignition. Keep away from direct sunlight.

Hygiene measures : Do not inhale aerosol.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Please observe the storage instructions for aerosols! Keep containers tightly closed in a cool, well-ventilated place. Solvent vapors are heavier than air and may spread along floors. Keep away from direct sunlight. Keep away from heat and

sources of ignition.

Further information on stor-

age conditions

Storage must be in accordance with the BetrSichV (Germany).

Advice on common storage : Keep away from food and drink.

Storage class (TRGS 510) : 2B

7.3 Specific end use(s)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Specific use(s) : No data 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	
acetone	67-64-1	TWA	500 ppm	2000/39/EC	
			1.210 mg/m3		
	Further infor	mation: Indicative			
		AGW	500 ppm	DE TRGS	
			1.200 mg/m3	900	
	Peak-limit ca				
			compliance with the OEL a	and biological	
	tolerance val		of harming the unborn child	T DE DEC 1444	
		MAK	500 ppm	DE DFG MAK	
	F		1.200 mg/m3		
			currently available information		
	the level of the	ne MAK and BAT valu			
dimethyl ether	115-10-6	TWA	1.000 ppm	2000/39/EC	
			1.920 mg/m3		
	Further infor	mation: Indicative			
		AGW	1.000 ppm	DE TRGS	
			1.900 mg/m3	900	
	Peak-limit category: 8;(II)				
		MAK	1.000 ppm	DE DFG MAK	
		<u> </u>	1.900 mg/m3		
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently				
			r classification in one of the	DE TRGS	
propane	74-98-6	AGW	1.000 ppm	900	
	Dook limit on	togory 4./II\	1.800 mg/m3	900	
	Peak-limit ca	MAK	4 000	DE DFG MAK	
		IVIAK	1.000 ppm 1.800 mg/m3	DE DEG MAK	
	Further infor	mation: Fither there a	re no data for an assessme	nt of damage to	
			velopmental neurotoxicity, o		
			r classification in one of the		
n-butyl acetate	123-86-4	STEL	150 ppm	2019/1831/E	
,			723 mg/m3	U	
	Further infor	mation: Indicative	,		
		TWA	50 ppm	2019/1831/E	
			241 mg/m3	U	
	Further infor	nation: Indicative			
		AGW	62 ppm	DE TRGS	
			300 mg/m3	900	
	Peak-limit category: 2;(I)				
		· · · · /			

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			s compliance with the OEL a	and biological
		MAK	100 ppm 480 mg/m3	DE DFG MAK
	Further inform	nation: Damage to the	ne embryo or foetus is unlike	ly when the
	MAK value or	the BAT value is of	served	
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
	Further inform skin, Indicativ		possibility of significant upta	ake through the
	,	TWA	50 ppm 275 mg/m3	2000/39/EC
	Further inform		possibility of significant upta	ake through the
		AGW	50 ppm 270 mg/m3	DE TRGS 900
	Peak-limit cat	egory: 1;(I)	•	•
	Further inform	nation: When there i	s compliance with the OEL a of harming the unborn child	and biological
		MAK	50 ppm 270 mg/m3	DE DFG MAK
		nation: Damage to the the BAT value is ob-	ne embryo or foetus is unlike	ly when the
butane (containing < 0,1 % butadiene (203-450-8))	106-97-8	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900
, , , , , , , , , , , , , , , , , , , ,	Peak-limit cat	egory: 4;(II)		•
isobutane (< 0,1% 1,3-butadiene (203-450-8))	75-28-5	AGW	1.000 ppm 2.400 mg/m3	DE TRGS 900
, , , , , , , , , , , , , , , , , , , ,	Peak-limit cat	egory: 4;(II)		•
aluminium powder (stabilised)	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	DE TRGS 900
	Peak-limit cat			
			s compliance with the OEL a of harming the unborn child	and biological
		AGW (Alveolate fraction)	1,25 mg/m3	DE TRGS 900
	Peak-limit cat	egory: 2;(II)		
	Further inform	nation: When there i	s compliance with the OEL a of harming the unborn child	and biological
ethanol	64-17-5	AGW	200 ppm 380 mg/m3	DE TRGS 900
	Peak-limit category: 4;(II)			
	Further inform	nation: When there i	s compliance with the OEL a	and biological
		MAK	200 ppm 380 mg/m3	DE DFG MAK
			that cause cancer in humans genic for humans and for wh	

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can be derived, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed, Germ cell mutagens or suspected substances (according to the definition of Category 3 A and 3B), the potency of which is considered to be so low that, provided the MAK and BAT values are observed, their contribution to genetic risk for man is considered to be very slight

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
acetone	67-64-1	Acetone: 50 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
		Acetone: 50 mg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT
aluminium powder (stabilised)	7429-90-5	Aluminum: 50 µg/g creatinine (Urine)	In case of long- term exposure: after more than one shift	TRGS 903
		Aluminum: 50 μg/g creatinine (Urine)	end of shift, for long-term expo- sures after several previous shifts	DE DFG BAT

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

Substance name	End Use	Routes of expo- sure	Potential health effects	Value
acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m3
	Workers	Inhalation	Long-term local ef- fects	2420 mg/m3
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	200 mg/m3
	Consumers	Skin contact, Oral	Long-term systemic effects	62 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	300 mg/m3
	Workers	Inhalation	Acute systemic effects	600 mg/m3
	Workers	Dermal	Long-term systemic effects, Acute systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	35,7 mg/m3
	Consumers	Inhalation	Acute systemic effects	300 mg/m3
	Consumers	Dermal	Long-term systemic effects, Acute systemic effects	6 mg/kg bw/day

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	Consumers	Oral	Long-term systemic effects, Acute systemic effects	2 mg/kg bw/day
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
Reaction mass of ethylbenzene and xylene	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	15 mg/m3
	Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,6 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
acetone	Fresh water	10,6 mg/l
	Sea water	1,06 mg/l
	Sewage treatment plant (STP)	100 mg/l
	Fresh water sediment	30,4 mg/kg dry weight (d.w.)
	Sea sediment	3,04 mg/kg dry weight (d.w.)
	Soil	29,5 mg/kg dry weight (d.w.)
n-butyl acetate	Fresh water	0,18 mg/l
	Sea water	0,018 mg/l
	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Sea sediment	0,098 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	35,6 mg/l
	Soil	0,09 mg/kg dry weight (d.w.)
2-methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l
	Sea water	0,064 mg/l
	Sewage treatment plant (STP)	100 mg/l
	Fresh water sediment	3,29 mg/kg dry weight (d.w.)
	Sea sediment	0,329 mg/kg dry weight (d.w.)

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	Soil	0,29 mg/kg dry weight (d.w.)
Reaction mass of ethylbenzene and xylene	Fresh water	0,327 mg/l
	Sea water	0,327 mg/l
	Sewage treatment plant (STP)	6,58 mg/l
	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Sea sediment	12,46 mg/kg dry weight (d.w.)
	Soil	2,31 mg/kg dry weight (d.w.)
ethanol	Fresh water	0,96 mg/l
	Sea water	0,79 mg/l
	Sewage treatment plant (STP)	580 mg/l
	Fresh water sediment	3,6 mg/kg dry weight (d.w.)
	Sea sediment	2,9 mg/kg dry weight (d.w.)
	Soil	0,63 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	0,38 mg/kg food

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Safety glasses with side-shields conforming to EN166

Hand protection

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : >= 0,4 mm
Directive : DIN EN 374
Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on

its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this

has to be observed. Preventive skin protection

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton

or heat-resistant synthetic fibres.

Long sleeved clothing

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

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Filter type : Filter type A-P

Protective measures : Use only with adequate ventilation.

When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

Environmental exposure controls

Soil : Avoid subsoil penetration.

Water : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : aerosol

Color : silver

Odor : characteristic

Melting point/range : not determined

Boiling point/boiling range : Not applicable

Upper explosion limit / Upper

flammability limit

18,6 %(V)

Lower explosion limit / Lower

flammability limit

1,2 %(V)

Flash point : Not applicable

Autoignition temperature : 235 °C

pH : not determined substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

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Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

No data available

Vapor pressure : 8.300 hPa (20 °C)

Density : 0,77 g/cm3 (20 °C)

9.2 Other information

Explosives : In use, may form flammable/explosive vapour-air mixture.

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapors may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Components:

acetone:

Acute oral toxicity : LD50 Oral (Rat): 5.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 76 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 7.400 mg/kg

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10.760 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : LD50 (Rat): > 21 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 14.112 mg/kg

Method: OECD Test Guideline 402

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6.190 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

Method: OECD Test Guideline 402

Reaction mass of ethylbenzene and xylene:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Acute oral toxicity : LD50 Oral (Rat): 3.523 - 4.000 mg/kg

Method: EC Directive 92/69/EEC B.1 Acute Toxicity (Oral)

Acute inhalation toxicity : LC50 (Rat, male): 6350 - 6700 ppm

Exposure time: 4 h
Test atmosphere: vapor

Method: Regulation (EC) No. 440/2008, Annex, B.2

Acute dermal toxicity : LD50 Dermal (Rabbit): 12.126 mg/kg

ethanol:

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 117 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Method: OECD Test Guideline 403

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Components:

Reaction mass of ethylbenzene and xylene:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Reaction mass of ethylbenzene and xylene:

Result : Moderate eye irritation

ethanol:

Result : Mild eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT-single exposure

May cause drowsiness or dizziness.

Components:

n-butyl acetate:

Assessment : May cause drowsiness or dizziness.

2-methoxy-1-methylethyl acetate:

Routes of exposure : Ora

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

Reaction mass of ethylbenzene and xylene:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified due to lack of data.

Components:

Reaction mass of ethylbenzene and xylene:

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Aspiration toxicity

Not classified due to lack of data.

Components:

Reaction mass of ethylbenzene and xylene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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SECTION 12: Ecological information

12.1 Toxicity

Components:

acetone:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.540 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia pulex (Water flea)): 8.800 mg/l

End point: mortality Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOEC (algae): 430 mg/l

Exposure time: 96 h

Toxicity to microorganisms : EC10 (Bacteria): 1.000 mg/l

Exposure time: 0,5 h

Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chron-

ic toxicity)

NOEC: 2.212 mg/l Exposure time: 28 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

n-butyl acetate:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 18 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 44 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 647,7 mg/l

Exposure time: 72 h

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 23 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

Exposure time: 48 h Test Type: static test

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): >

1.000 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC: 47,5 mg/l Exposure time: 14 d

Species: Oryzias latipes (Orange-red killifish)

Method: OECD Test Guideline 204

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: >= 100 mg/lExposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Reaction mass of ethylbenzene and xylene:

Toxicity to fish LC50 (Fish): 2,6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia dubia (Water flea)): 1 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (algae): 1,3 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (algae): 0,44 mg/l Exposure time: 72 h

Toxicity to microorganisms EC50 (Bacteria): 96 mg/l

Toxicity to fish (Chronic tox-

icity)

NOEC: > 1.3 mg/l

Exposure time: 56 d Species: Fish

Toxicity to daphnia and other :

NOEC: 0.96 ma/l Exposure time: 7 d

aquatic invertebrates (Chron-

ic toxicity)

Species: Daphnia magna (Water flea)

Ecotoxicology Assessment

Acute aquatic toxicity This product has no known ecotoxicological effects.

Chronic aquatic toxicity This product has no known ecotoxicological effects.

ethanol:

Toxicity to fish LC50 (Fish): 11.200 mg/l

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Exposure time: 96 h

Remarks: This product has no known ecotoxicological effects.

Toxicity to fish (Chronic tox-

icity)

NOEC: 250 mg/l Species: Fish

12.2 Persistence and degradability

Components:

acetone:

Result: Readily biodegradable. Biodegradability

Biodegradation: 90,9 % Exposure time: 28 d

Method: OECD Test Guideline 301B

n-butyl acetate:

Biodegradability Result: Readily biodegradable.

> Biodegradation: 83 % Exposure time: 28 d

2-methoxy-1-methylethyl acetate:

Biodegradability Result: Readily biodegradable.

Biodegradation: 90 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Reaction mass of ethylbenzene and xylene:

Biodegradability Result: Readily biodegradable.

ethanol:

Biodegradability Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

acetone:

Bioaccumulation Bioconcentration factor (BCF): 3

Remarks: Calculation

Partition coefficient: n-

octanol/water

log Pow: -0,24 (20 °C)

n-butyl acetate:

Partition coefficient: n-

log Pow: 2,3 (25 °C)

octanol/water Method: OECD Test Guideline 117

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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2-methoxy-1-methylethyl acetate:

Partition coefficient: n- : log Pow: 1,2 (20 °C)

octanol/water pH: 6,8

Method: OECD Test Guideline 117

Reaction mass of ethylbenzene and xylene:

Bioaccumulation : Bioconcentration factor (BCF): 25,9

Partition coefficient: n-

octanol/water

: log Pow: 3,2 (20 °C)

ethanol:

Partition coefficient: n-

octanol/water

log Pow: -0,35 (20 °C)

dimethyl ether:

Partition coefficient: n-

octanol/water

log Pow: 0,07 (25 °C)

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

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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.

12.7 Other adverse effects

Product:

Additional ecological infor-

mation

: No data available

Global warming potential

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Components:

propane:

20-year global warming potential: 0,072 100-year global warming potential: 0,02 500-year global warming potential: 0,006

Atmospheric lifetime: 0,036 yr Radiative efficiency: 0 Wm2ppb

Further information: Miscellaneous compounds

butane (containing < 0,1 % butadiene (203-450-8)):

20-year global warming potential: 0,022 100-year global warming potential: 0,006 500-year global warming potential: 0,002

Atmospheric lifetime: 0,019 yr Radiative efficiency: 0 Wm2ppb

Further information: Miscellaneous compounds

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : According to the European Waste Catalog, Waste Codes are

not product specific, but application specific.

Dispose of in conjunction with appropriate waste disposal authorities and in accordance with disposal regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:

08 01 11, waste paint and varnish containing organic solvents

or other hazardous substances 150104, metallic packaging

15 01 10, packaging containing residues of or contaminated

by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950
IATA : UN 1950

14.2 UN proper shipping name

ADN : AEROSOLS ADR : AEROSOLS

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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RID : AEROSOLS IMDG : AEROSOLS

IATA : Aerosols, flammable

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADN
 : 2
 2.1

 ADR
 : 2
 2.1

 RID
 : 2
 2.1

IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADN

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

ADR

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23 Labels : 2.1

IMDG

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passen: 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

Labels : Flammable Gas

14.5 Environmental hazards

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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ADN

Environmentally hazardous : no

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) Conditions of restriction for the following entries should be considered: Number on list 75

If you intend to use this product as tattoo ink, please contact your ven-

dor.

REACH - Candidate List of Substances of Very High

Concern for Authorization (Article 59).

Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

Not applicable

Regulation (EU) 2019/1021 on persistent organic pollu-

tants (recast)

Not applicable

REACH - List of substances subject to authorisation

(Annex XIV)

Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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

FLAMMABLE AEROSOLS

Water hazard class (Germa-

WGK 1 slightly water endangering

P3a

ny)

Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds : Directive 2004/42/EC

Volatile organic compounds (VOC) content: < 840 g/l VOC content for the product in a ready to use condition.

Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16: Other information

Full text of H-Statements

H220 : Extremely flammable gas.

H225 : Highly flammable liquid and vapor. H226 : Flammable liquid and vapor.

H280 : Contains gas under pressure; may explode if heated.

H304 : May be fatal if swallowed and enters airways.

H312 : Harmful in contact with skin.

H315 : Causes skin irritation.

H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness.

H373 : May cause damage to organs through prolonged or repeated

exposure.

EUH066 : Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Asp. Tox. : Aspiration hazard
Eye Irrit. : Eye irritation
Flam. Gas : Flammable gases
Flam. Liq. : Flammable liquids
Press. Gas : Gases under pressure

Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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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

2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a

fifth list of indicative occupational exposure limit values

DE DFG BAT : Germany. MAK BAT Annex XIII
DE DFG MAK : Germany. MAK BAT Annex IIa

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

TRGS 903 : c - Biological limit values 2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit 2019/1831/EU / TWA : Limit Value - eight hours 2019/1831/EU / STEL : Short term exposure limit

DE DFG MAK / MAK : MAK value

DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - 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

Classification of the mixture:

Classification procedure:

Aerosol 1 H222, H229 Calculation method

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Eye	Irrit. 2	H319	Calculation method	
STO	T SE 3	H336	Calculation method	

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.

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