

according to Regulation (EC) No 1907/2006

385-D; 385-SEL; 385-LMP

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

#### 1.1. Product identifier

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

#### Use of the substance/mixture

Fluxes for soft soldering

#### Uses advised against

any non-intended use.

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

Manufacturer

Cobar Europe BV Company name: Aluminiumstraat 2 Street: Place: NL-4823 AL Breda +31 76 5445566

Telephone: Telefax: +31 76 5445577

e-mail: info@Cobar.com

**Supplier** 

Company name: Balver Zinn Josef Jost GmbH & Co. KG

Street: Blintroper Weg 11 Place: D-58802 Balve Telephone: +49 2375 915-0

Telefax: +49 2375 915-114

Responsible Department: cia@BalverZinn.com

Chemtrec: +44(0) 870-8200418 1.4. Emergency telephone

number:

## **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

## 2.2. Label elements

## Regulation (EC) No. 1272/2008

#### Hazard components for labelling

propan-2-ol; isopropyl alcohol; isopropanol

Signal word: Danger

Pictograms:





#### **Hazard statements**

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.



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H336 May cause drowsiness or dizziness.

#### **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.

P403+P235 Store in a well-ventilated place. Keep cool.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. In use, may form flammable/explosive vapour-air mixture.

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

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	•	•	
67-63-0	propan-2-ol; isopropyl alco	85 - < 90 %		
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, S			
64-17-5	ethanol, ethyl alcohol	5 - < 10 %		
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H	225 H319		
100-51-6	benzyl alcohol			1 - < 5 %
	202-859-9	603-057-00-5	01-2119492630-38	
	Acute Tox. 4, Acute Tox. 4	, Eye Irrit. 2; H332 H302 H319	·	
110-15-6	succinic acid			1 - < 5 %
	203-740-4			
	Skin Irrit. 2, Eye Dam. 1, S			

Full text of H and EUH statements: see section 16.

#### **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Change contaminated clothing.

First aider: Pay attention to self-protection!

#### After inhalation

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.



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#### After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. In case of skin irritation, seek medical treatment.

#### After contact with eyes

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

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. In all cases of doubt, or when symptoms persist, seek medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

refer to chapter 2 and 11.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam.

In case of major fire and large quantities: Atomized water.

#### Unsuitable extinguishing media

High power water jet.

#### 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx).

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Remove all sources of ignition. Ventilate affected area.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear personal protection equipment. (See section 8.)

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



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#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations.

Do not breathe gas/vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

#### Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking. Take precautionary measures against static discharges. Flammable vapours can accumulate in head space of closed systems. In use, may form flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

#### Further information on handling

General protection and hygiene measures: See section 8.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Protect against direct sunlight.

Ensure adequate ventilation of the storage area.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

#### Hints on joint storage

Do not store together with: Gas. Explosives. Flammable solids. Pyrophoric liquids and solids. Self-heating substances and mixtures. Substances and mixtures which, in contact with water, emit flammable gases. Oxidizing liquids. Oxidizing solids. Ammonium nitrate and preparations containing ammonium nitrate. Self-reactive substances and mixtures. Organic peroxides. Non-combustible toxic substances. Radioactive substances. Infectious substances.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.

Protect against: UV-radiation/sunlight. heat. Humidity frost.

storage temperature: refer to specifications.

#### 7.3. Specific end use(s)

See section 1.

#### **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

## **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
Worker DNEL,	long-term	inhalation	systemic	500 mg/m³		
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³		
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day		



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Consumer DNEL, long-term	oral	systemic	26 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	319 mg/kg bw/day
64-17-5 ethanol, ethyl alcohol			
Worker DNEL, acute	inhalation	local	1900 mg/m³
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	950 mg/m³
Consumer DNEL, acute	inhalation	local	950 mg/m³
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m³
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day
100-51-6 benzyl alcohol			
Consumer DNEL, acute	dermal	systemic	20 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	4 mg/kg bw/day
Consumer DNEL, acute	inhalation	systemic	27 mg/m³
Worker DNEL, long-term	inhalation	systemic	22 mg/m³
Consumer DNEL, long-term	oral	systemic	4 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	40 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	5,4 mg/m³
Worker DNEL, long-term	dermal	systemic	8 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	110 mg/m³
Consumer DNEL, acute	oral	systemic	20 mg/kg bw/day
110-15-6 succinic acid			
Worker DNEL, acute	inhalation	systemic	10 mg/m³
Worker DNEL, long-term	inhalation	systemic	10 mg/m³
Consumer DNEL, acute	inhalation	systemic	10 mg/m³
Worker DNEL, long-term	inhalation	local	10 mg/m³
Consumer DNEL, long-term	inhalation	systemic	10 mg/m³
Consumer DNEL, long-term	inhalation	local	10 mg/m³
Consumer DNEL, acute	dermal	systemic	67 mg/kg bw/day
Consumer DNEL, acute	inhalation	local	10 mg/m³
Worker DNEL, long-term	dermal	systemic	71 mg/kg bw/day
Worker DNEL, acute	inhalation	local	10 mg/m³
Worker DNEL, acute	dermal	systemic	67 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	43 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	67 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	43 mg/kg bw/day

## PNEC values

CAS No	Substance		
Environmental compartment		Value	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol		
Freshwater		140,9 mg/l	
Marine water		140,9 mg/l	
Micro-organisr	Micro-organisms in sewage treatment plants (STP)		



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Freshwater se	diment	552 mg/kg
Marine sedime	ent	552 mg/kg
Soil	Soil	
Secondary poi	soning	160 mg/kg
64-17-5	ethanol, ethyl alcohol	
Freshwater		0,96 mg/l
Freshwater (in	termittent releases)	2,75 mg/l
Marine water		0,79 mg/l
Marine water (	intermittent releases)	2,75 mg/l
Freshwater se	diment	3,6 mg/kg
Marine sedime	ent	2,9 mg/kg
Secondary poisoning		0,72 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
100-51-6	benzyl alcohol	
Marine sedime	ent	0,527 mg/kg
Micro-organisr	ns in sewage treatment plants (STP)	39 mg/l
Marine water		0,1 mg/l
Freshwater se	diment	5,27 mg/kg
Freshwater		1 mg/l
Soil		0,456 mg/kg
110-15-6	succinic acid	
Micro-organisr	ms in sewage treatment plants (STP)	3 mg/l
Freshwater sediment		0,079 mg/kg
Freshwater		0,1 mg/l
Marine water		0,01 mg/l
Marine sedime	ent	0,0079 mg/kg
Soil		0,0177 mg/kg

## 8.2. Exposure controls







#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Protective and hygiene measures

The usual precautions for handling chemicals should be considered.

Keep away from food, drink and animal feedingstuffs.

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing.

#### Eye/face protection

Recommended eye protection brand: Tightly sealed safety glasses. (DIN EN 166)

#### **Hand protection**

In case of prolonged or frequently repeated skin contact: Wear suitable gloves.



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Suitable material: Butyl rubber. Thickness of glove material: 0,5 mm

penetration time (maximum wearing period): 120 min.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

In the case of wanting to use the gloves again, clean them before taking off and air them well. Before using check leak tightness / impermeability.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

exceeding exposure limit values

Insufficient ventilation.

Suitable respiratory protective equipment: gas filtering equipment (EN 141). Type: A

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### **Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

This material and its container must be disposed of in a safe way.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: liquid.
Colour: colourless
Odour: alcoholic.

Test method

pH-Value: not determined

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Flash point:

Inot applicable
Isopropyl alcohol: 82 °C

not determined
not determined
not determined
Isopropyl alcohol: 12 °C

## **Explosive properties**

In use, may form flammable/explosive vapour-air mixture. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

Lower explosion limits:not determinedUpper explosion limits:not determinedIgnition temperature:not determinedDecomposition temperature:not determined



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**Oxidizing properties** 

none.

Vapour pressure: not determined

(at 20 °C)

Density: 0,804 g/cm³ N/A

Water solubility: miscible.

Solubility in other solvents

not determined

Viscosity / dynamic: not determined

(at 20 °C)

Viscosity / kinematic: not determined

(at 20 °C)

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

9.2. Other information

Solid content: not determined

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

## 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat. moisture.

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

Heating causes rise in pressure with risk of bursting.

#### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis (Base)

## 10.6. Hazardous decomposition products

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx).

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

No data available.

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol						
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier			



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	dermal	LD50 mg/kg	>5000	Rabbit	ECHA Dossier	
64-17-5	ethanol, ethyl alcohol					
	oral	LD50 mg/kg	>5000	Rat	ECHA Dossier	
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	ECHA Dossier	
100-51-6	benzyl alcohol					
	oral	LD50 mg/kg	1620	Rat	ECHA Dossier	
	dermal	LD50 mg/kg	>2000	Rabbit	RTECS	
	inhalation vapour	ATE	11 mg/l			
	inhalation (4 h) aerosol	LC50 mg/l	>4,178	Rat (OECD 403)	ECHA Dossier	
110-15-6	succinic acid					
	oral	LD50 mg/kg	2260	Rat.	RTECS	

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

Isopropyl alcohol. (CAS-No.: 67-63-0):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Carcinogenicity:

Exposure time: 24 month Species: Fischer 344 Rat. Method: OECD Guideline 451 Result: NOEL = 5000 ppm

Literature information: ECHA Dossier

Ethanol. (CAS-No.: 64-17-5):

In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.

Reproductive toxicity:
Exposure time: 18 weeks
Species: CD-1 Mouse.
Method: OECD Guideline 416
Result: NOAEL = 20700 mg/kg/day
Developmental toxicity/teratogenicity:

Exposure time: 19d

Species: Sprague-Dawley Rat. Method: OECD Guideline 414

Result: NOAEL = 16000 ppm (maternal toxicity)
Result: NOAEL >= 20000 ppm (teratogenicity)

Literature information: ECHA Dossier

succinic acid (CAS-No.: 110-15-6):

Carcinogenicity: Exposure time: ~728d Species: Fischer 344 Rat.

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Method: OECD Guideline 451

Result: NOAEL = 2% (20g/L) ~1000 mg/kg Literature information: ECHA Dossier

#### STOT-single exposure

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

Isopropyl alcohol. (CAS-No.: 67-63-0):

Chronic inhalative toxicity Exposure time: 24 month Species: Fischer 344 Rat. Method: OECD Guideline 451 Result: NOAEC = 5000 ppm

Literature information: ECHA Dossier

Ethanol. (CAS-No.: 64-17-5): Subchronic oral toxicity Exposure time: 90d

Species: Sprague-Dawley Rat. Method: OECD Guideline 408 Result: NOAEL = 1280 mg/kg

Literature information: ECHA Dossier

succinic acid (CAS-No.: 110-15-6):

Subchronic oral toxicity:
Exposure time: 90d
Species: Fischer 344 Rat.
Method: OECD Guideline 408
Result: NOAEL = 860 - 990 mg/kg
Literature information: ECHA Dossier

benzyl alcohol (CAS-No.: 100-51-6):

Chronic oral toxicity:
Exposure time: 103 weeks
Species: Fischer 344 Rat.
Method: OECD Guideline 451
Result: NOAEL = 400 mg/kg
Subacute inhalative toxicity:

Exposure time: 28d

Species: Sprague-Dawley Rat.
Method: OECD Guideline 412
Result: NOAEC = 1072 mg/m3
Literature information: ECHA Dossier

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### Specific effects in experiment on an animal

No data available.

#### **Further information**

Solvent:

Symptoms: Depression of the central nervous system. Liver and kidney damage. drowsiness. vomiting. Nausea. Dizziness. unconsciousness. Impaired consciousness. Intoxication. erythema (redness)

#### **SECTION 12: Ecological information**



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#### 12.1. Toxicity

CAS No	Chemical name								
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol								
	Acute fish toxicity	LC50 mg/l	9640	96 h	Pimephales promelas	ECHA Dossier			
	Acute algae toxicity	ErC50 mg/l	1800		Scenedesmus quadricauda	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	>10000	48 h	Daphnia magna (24h)	ECHA Dossier			
64-17-5	ethanol, ethyl alcohol								
	Acute fish toxicity	LC50 mg/l	14200	96 h	Pimephales promelas	ECHA Dossier			
	Acute algae toxicity	ErC50	275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	5012	48 h	Ceriodaphnia dubia	ECHA Dossier			
	Crustacea toxicity	NOEC mg/l	(9,6)	9 d	Daphnia magna	ECHA Dossier			
100-51-6	benzyl alcohol								
	Acute fish toxicity	LC50	460 mg/l	96 h	Pimephales promelas	ECHA Dossier			
	Acute algae toxicity	ErC50	500 mg/l	72 h	Pseudokirchnella subcpitata	ECHA Dossier			
	Acute crustacea toxicity	EC50	230 mg/l	48 h	Daphnia magna	ECHA Dossier			
	Crustacea toxicity	NOEC	51 mg/l	21 d	Daphnia magna (OECD 211)	ECHA Dossier			
110-15-6	succinic acid								
	Acute fish toxicity	LC50 mg/l	>100	96 h	Danio rerio (OECD 203)	ECHA Dossier			
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA Dossier			
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	ECHA Dossier			
	Acute bacteria toxicity	(>300 m	g/l)	3 h	Belebtschlamm (OECD 209 )	ECHA Dossier			

## 12.2. Persistence and degradability

CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation	•	-					
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	propan-2-ol; isopropyl alcohol; isopropanol						
	EU Method C.5/ EU Method C.6	53%	5	ECHA Dossier				
	Easily biodegradable (concerning to the criteria of the OECD)							
64-17-5	ethanol, ethyl alcohol							
	other guideline	84%	20	ECHA Dossier				
	Biodegradable.							
100-51-6	benzyl alcohol							
	OECD Guideline 301 C	92-96%	14	ECHA Dossier				
	Product is biodegradable.							
110-15-6	succinic acid							
	OECD 301E / EEC 92/69 annex V, C.4-B	96%	28	ECHA Dossier				



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Easily biodegradable (concerning to the criteria of the OECD)

## 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	0,05
64-17-5	ethanol, ethyl alcohol	-0,31
100-51-6	benzyl alcohol	1,05
110-15-6	succinic acid	-0,75

#### 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Other adverse effects

No data available.

#### **Further information**

Do not allow to enter into surface water or drains.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## Advice on disposal

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to EAKV:

#### Waste disposal number of waste from residues/unused products

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

## Waste disposal number of used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

#### Waste disposal number of contaminated packaging

150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

Recommended cleaning agent: Water, if necessary together with cleansing agents.

Do not empty into drains; dispose of this material and its container in a safe way.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number: UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (Ethanol. / Isopropyl alcohol.)

14.3. Transport hazard class(es): 3 Ш 14.4. Packing group:

# BALVER ZINN<sup>®</sup> COBAR<sup>®</sup>

## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

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Hazard label: 3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

**14.1. UN number:** UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (Ethanol. / Isopropyl alcohol.)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L Excepted quantity: E2

Marine transport (IMDG)

**14.1. UN number:** UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (Ethanol. / Isopropyl alcohol.)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Marine pollutant:

Special Provisions:

Limited quantity:

Excepted quantity:

E2

EmS:

NO

274

1 L

E2

E7-E, S-D

Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 1987

14.2. UN proper shipping name: ALCOHOLS, N.O.S. (Ethanol. / Isopropyl alcohol.)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions: A3 A180



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Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

See section 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not relevant.

#### **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

Restrictions on use (REACH, annex XVII): Entry 40: ethanol, ethyl alcohol

2010/75/EU (VOC): 94,202 % (757,386 g/l)
2004/42/EC (VOC): 98,382 % (790,993 g/l)
Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

**Additional information** 

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

REACH 1907/2006 Appendix XVII, No: 3, 40

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile

work protection guideline' (94/33/EC).

Water contaminating class (D): 2 - clearly water contaminating

**Additional information** 

Observe technical data sheet.

#### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

propan-2-ol; isopropyl alcohol; isopropanol

ethanol, ethyl alcohol

## **SECTION 16: Other information**

#### Changes

Rev. 1.00; 25.02.2015, Initial release

Rev. 1.1; 24.11.2016, Indication of changes - chapter: 1, 2, 3, 6, 12, 15, 16.

Rev. 1.2; 22.11.2017, Indication of changes - chapter: 1. Rev. 2.0; 13.05.2019, Indication of changes - chapter: 2-16.

## Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods



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IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level

NTP: National Toxicology Program N/A: not applicable

OSHA: Occupational Safety and Health Administration

PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

SARA: Superfund Amendments and Reauthorization Act

SVHC: substance of very high concern TRGS Technische Regeln fuerGefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefaehrdender Stoffe

WGK: Wassergefaehrdungsklasse

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

# H336 May cause drowsiness or dizziness.

#### **Further Information**

Classification according EC regulation 1272/2008 (CLP): - Classification procedure:

Health hazards: Calculation method. Environmental hazards: Calculation method.

Physical hazards: On basis of test data. and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)