

95-DRM

Print date: 21.04.2015

Product code: 950412

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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**

Company name:	Cobar Europe BV	
Street:	Aluminiumstraat 2	
Place:	NL-4823 AL Breda	
Telephone:	+31 76 5445566	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 915-1700
Responsible Department:	sds@BalverZinn.com	

1.4. Emergency telephone number:

Poison Center Berlin - phone: +49 (0) 30-30686 790 - Consultation in German and English

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

Indications of danger: F - Highly flammable, Xi - Irritant

R phrases:

Highly flammable.

Irritating to eyes.

Vapours may cause drowsiness and dizziness.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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**Hazardous components which must be listed on the label**

propan-2-ol; isopropyl alcohol; isopropanol

Signal word: Danger

Pictograms: GHS02-GHS07

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**Hazard statements**

- | | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| 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. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

Special labelling of certain mixtures

- | | |
|--------|---|
| EUH208 | Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction. |
|--------|---|

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	50 - < 55 %
67-63-0	F - Highly flammable, Xi - Irritant R11-36-67	
603-117-00-0	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
01-2119457558-25		
203-817-2	glutaric acid	1 - < 5 %
110-94-1	Xi - Irritant R36	
	Eye Irrit. 2; H319	
204-673-3	adipic acid	1 - < 5 %
124-04-9	Xi - Irritant R36	
607-144-00-9	Eye Irrit. 2; H319	
01-2119457561-38		
204-809-1	2,4,7,9-tetramethyldec-5-yne-4,7-diol	< 1 %
126-86-3	Xi - Irritant R36-43-52-53	
	Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 3; H319 H317 H412	
205-594-7	bis(2-(2-methoxyethoxy)ethyl) ether	< 1 %
143-24-8	Repr. Cat. 1, Repr. Cat. 2, Repr. Cat. 3 R61-62	
	Repr. 1B; H360Df	
01-2119958965-16		

Full text of R-, H- and EUH-phrases: see section 16.

Further Information

This product does not contain SVHC substances in an amount >0.1%.

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 allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

Take off immediately all contaminated clothing. Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

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.

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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 mixtureCan be released in case of fire: Gas/vapours, irritant. Carbon monoxide. Carbon dioxide (CO₂).**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. 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. (refer to chapter 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

refer to chapter 8.

refer to chapter 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

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

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

Wear suitable protective clothing. (refer to chapter 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

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flammable/explosive vapour-air mixture. Heating causes rise in pressure with risk of bursting.

Further information on handling

General protection and hygiene measures: refer to chapter 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).

Advice on storage compatibility

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. 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 absorption of humidity.

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

storage temperature: refer to specifications.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

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

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	89 mg/m ³
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
124-04-9	adipic acid			
Worker DNEL, acute		inhalation	systemic	264 mg/m ³
Worker DNEL, acute		inhalation	local	5 mg/m ³
Worker DNEL, long-term		dermal	systemic	38 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	38 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	65 mg/m ³
Consumer DNEL, acute		inhalation	systemic	65 mg/m ³
Consumer DNEL, long-term		dermal	systemic	19 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	19 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	19 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	19 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	5 mg/m ³
Worker DNEL, long-term		inhalation	systemic	264 mg/m ³
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether			
Worker DNEL, long-term		dermal	systemic	3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	22 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	0,0005 mg/m ³
Consumer DNEL, long-term		dermal	systemic	0,001 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,001 mg/kg bw/day

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PNEC values

CAS No	Substance	Value
Environmental compartment		
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Freshwater		140,9 mg/l
Marine water		140,9 mg/l
Micro organisms in sewage treatment plants (STP)		2251 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Soil		28 mg/kg
Secondary poisoning		160 mg/kg
124-04-9	adipic acid	
Micro organisms in sewage treatment plants (STP)		59,1 mg/l
Freshwater sediment		0,484 mg/kg
Marine water		0,0126 mg/l
Marine sediment		0,0484 mg/kg
Soil		0,0228 mg/kg
Freshwater		0,126 mg/l
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether	
Freshwater		32 mg/l
Marine water		3,2 mg/l
Micro organisms in sewage treatment plants (STP)		500 mg/l
Freshwater sediment		127 mg/kg
Marine sediment		12,7 mg/kg
Secondary poisoning		8,32 mg/kg
Soil		6,7 mg/kg

8.2. Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaust 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)

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Hand protection

Wear suitable gloves. (DIN EN 374)
Suitable material: Butyl rubber.
Thickness of glove material: 0,5 mm
penetration time (maximum wearing period): 120 min.
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, closed-circuit breathing apparatus must be used!

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

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: not applicable
Initial boiling point and boiling range: Isopropyl alcohol: 82 °C
Flash point: Isopropyl alcohol: 12 °C

Explosive properties

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

Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined
Decomposition temperature: not determined

Oxidizing properties

none.

Vapour pressure: not determined
(at 20 °C)

Density: 0,915 g/cm³ N/A

Water solubility: miscible.

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Solubility in other solvents

not determined

Viscosity / dynamic:
(at 20 °C)

not determined

Viscosity / kinematic:
(at 20 °C)

not determined

Flow time:

not determined

Vapour density:

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

Stable under normal storage and handling conditions.

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.

10.6. Hazardous decomposition productsCan be released in case of fire: Gas/vapours, irritant. Carbon monoxide. Carbon dioxide (CO₂).**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available.

Acute toxicity

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

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Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50	>5000 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>5000 mg/kg	Rabbit	RTECS
110-94-1	glutaric acid				
	oral	LD50	6000 mg/kg	Mouse.	RTECS
	dermal	LD50	>10000 mg/kg	Rabbit.	RTECS
124-04-9	adipic acid				
	oral	LD50	5560 mg/kg	Ratte	ECHA Dossier
	dermal	LD50	5010 mg/kg	Ratte	ECHA Dossier
	inhalative (4 h) aerosol	LC50	> 7,7 mg/l	Ratte	ECHA Dossier
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether				
	oral	LD50	3850 mg/kg	Rat. (OECD 401)	ECHA Dossier

Irritation and corrosivity

Causes serious eye irritation.

Sensitising effects

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

May cause sensitisation especially in sensitive humans.

STOT-single exposure

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

Severe effects after repeated or prolonged exposure

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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

adipic acid (CAS-No.: 124-04-9):

Chronic oral toxicity

Exposure time: 24 month

Species: Carworth Farm strain Rat.

Method: no guideline followed

Result: NOAEL = 750 mg/kg(bw)/day

literature information: ECHA Dossier

2,4,7,9-tetramethyldec-5-yne-4,7-diol (CAS-No.: 126-86-3)

Subacute oral toxicity:

Exposure time: 28d

Species: Long-Evans Rat.

Method: other

Result: NOAEL = 5000 ppm

literature information: ECHA Dossier

bis(2-(2-methoxyethoxy)ethyl) ether (CAS-No.: 143-24-8):

Subacute oral toxicity

Exposure time: 28d

Species: Wistar Rat.

Method: OECD Guideline 407

Result: NOEL = 250 mg/kg(bw)/day

literature information: ECHA Dossier

Carcinogenic/mutagenic/toxic effects for reproduction

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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

adipic acid (CAS-No.: 124-04-9):

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

Carcinogenicity:

Exposure time: 24 month

Species: Carworth Farm strain Rat.

Method: no guideline followed

Result: NOAEL = >3750 mg/kg(bw)/day (male.)

Result: NOAEL = >750 mg/kg(bw)/day (female.)

Developmental toxicity/teratogenicity:

Exposure time: 10d

Species: Wistar Rat.

Method: no guideline followed

Result: NOAEL >= 288 ppm (maternal toxicity)

Result: NOAEL >= 288 ppm (developmental toxicity)

literature information: ECHA Dossier

2,4,7,9-tetramethyldec-5-yne-4,7-diol (CAS-No.: 126-86-3)

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

Reproductive toxicity:

Exposure time: 91d

Species: Sprague-Dawley Rat.

Method: no guideline

Result: NOAEL = 500 mg/kg/day

Developmental toxicity/teratogenicity:

Exposure time: 91d

Species: Sprague-Dawley Rat.

Method: no guideline

Result: NOAEL = 500 mg/kg/day

literature information: ECHA Dossier

bis(2-(2-methoxyethoxy)ethyl) ether (CAS-No.: 143-24-8):

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

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

Solvents:

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**12.1. Toxicity**

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50	9640 mg/l	96 h	Pimephales promelas	ECHA Dossier
	Acute algae toxicity	ErC50	>1000 mg/l	72 h	Scenedesmus subspicatus	MSDS external
	Acute crustacea toxicity	EC50	1400 mg/l	48 h	Daphnia magna	GESTIS
110-94-1	glutaric acid					
	Acute fish toxicity	LC50 mg/l	330 (24h)	96 h	Lepomis macrochirus	US EPA
124-04-9	adipic acid					
	Acute fish toxicity	LC50	1000 mg/l	96 h	Danio rerio (OECD 203)	ECHA Dossier
	Acute algae toxicity	ErC50	59 mg/l	72 h	Pseudokirchnerella subcapitata (IUCLID)	ECHA Dossier
	Acute crustacea toxicity	EC50	46 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier
	Fish toxicity	NOEC	6,3 mg/l	21 d	Daphnia magna (OECD 211)	ECHA Dossier
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether					
	Acute fish toxicity	LC50	>500 mg/l	96 h	Danio rerio (OECD 203)	MSDS exzern
	Acute algae toxicity	ErC50	8996 mg/l	72 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA Dossier
	Acute crustacea toxicity	EC50	7467 mg/l	48 h	Daphnia magna (OECD 202)	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				
	EU Method C.5/ EU Method C.6	53%	5	ECHA Dossier	
	Product is biodegradable.				
124-04-9	adipic acid				
	OECD Guideline 301 D	83%	30	ECHA Dossier	
	Product is biodegradable.				

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
110-94-1	glutaric acid	-0,297
124-04-9	adipic acid	0,093
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether	-0,84

BCF

CAS No	Chemical name	BCF	Species	Source
124-04-9	adipic acid	3,162	QSAR	ECHA Dossier

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Consult the appropriate 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

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

Waste disposal number of contaminated packaging

150203 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02

Contaminated packaging

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

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 1219
14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3



Classification code: F1
Special Provisions: 601
Limited quantity: 1 L
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Other applicable information (land transport)

Excepted quantity: E2

Inland waterways transport (ADN)

14.1. UN number: UN 1219

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14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Classification code: F1

Special Provisions: 601

Limited quantity: 1 L

Other applicable information (inland waterways transport)

Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 1219

14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Marine pollutant: NO

Special Provisions: -

Limited quantity: 1 L

EmS: F-E, S-D

Other applicable information (marine transport)

Excepted quantity: E2

Air transport (ICAO)

14.1. UN number: UN 1219

14.2. UN proper shipping name: ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Hazard label: 3



Special Provisions: A180

Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 353

IATA-max. quantity - Passenger: 5 L

IATA-packing instructions - Cargo: 364

IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

Excepted quantity: E2

Passenger-LQ: Y341

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

See section 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 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**

2010/75/EU (VOC): 51,6 % (calculated.)

2004/42/EC (VOC): 457,5 g/l (calculated.)

Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Directive 96/82/EC for danger control following severe accidents with dangerous substances: Appendix I, Part 2, No 7b, (Seveso II).

REACH 1907/2006 Appendix XVII, No: 3

National regulatory information

Employment restrictions: Observe employment restrictions for young people.

Water contaminating class (D): 1 - slightly water contaminating

Additional information

Observe technical data sheet.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

Rev. 1.00; 23.02.2015, Initial release

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

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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: Concerning the International Transport of Dangerous Goods by Rail)

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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 für Gefahrstoffe

TSCA: Toxic Substances Control Act

VOC: Volatile Organic Compounds

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

Relevant R-phrases (Number and full text)

- | | |
|----|---|
| 11 | Highly flammable. |
| 36 | Irritating to eyes. |
| 43 | May cause sensitisation by skin contact. |
| 52 | Harmful to aquatic organisms. |
| 53 | May cause long-term adverse effects in the aquatic environment. |
| 61 | May cause harm to the unborn child. |
| 62 | Possible risk of impaired fertility. |
| 67 | Vapours may cause drowsiness and dizziness. |

Relevant H- and EUH-phrases (Number and full text)

- | | |
|--------|---|
| H225 | Highly flammable liquid and vapour. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H360Df | May damage the unborn child. Suspected of damaging fertility. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains 2,4,7,9-tetramethyldec-5-yne-4,7-diol. May produce an allergic reaction. |

Further Information

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.)