

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 20/03/2023

SN96C RMA H-1 FDQ / SN97C RMA H-1 FDQ

Product code: 950605

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

SN96C RMA H-1 FDQ / SN97C RMA H-1 FDQ

**Further trade names**

This MSDS covers the following products:

Solder paste SN96C RMA H-1 FDQ

Solder paste SN97C RMA H-1 FDQ

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Solder paste for soft soldering, lead free

**Uses advised against**

Any non-intended use.

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

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
e-mail:	cia@balverzinn.com	
e-mail (Contact person):	SDS@balverzinn.com	
Internet:	www.balverzinn.com	
Responsible Department:	Product Safety Department +49 2375 915-199	
	Only available during office hours.	

**1.4. Emergency telephone number:**+49 700 24 112 122 (Contract-ID: BZW)  
from USA / Canada please call 011 49 700 24 112 112**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Skin Sens. 1; H317  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

rosin; colophony

**Signal word:** Warning**Pictograms:****Hazard statements**H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.

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**Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of Water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to local/regional/national/international regulations.

**2.3. Other hazards**

For information or further instructions, see also section 11 or 12.

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

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
7440-22-4	Silver in matrix, powdery			1 - < 5 %
	231-131-3		01-2119555669-21	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
107-41-5	2-methylpentane-2,4-diol			1 - < 5 %
	203-489-0	603-053-00-3	01-2119539582-35	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
8050-09-7	rosin; colophony			1 - < 5 %
	232-475-7	650-015-00-7		
	Skin Sens. 1; H317			
8000-41-7	Terpineol			1 - < 5 %
	232-268-1			
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
7440-50-8	Copper in matrix, powdery			< 1 %
	231-159-6		01-2119480154-42	
	Aquatic Acute 1, Aquatic Chronic 3; H400 H412			

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

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
7440-22-4	231-131-3	Silver in matrix, powdery	1 - < 5 %
		Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10	
107-41-5	203-489-0	2-methylpentane-2,4-diol	1 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
8050-09-7	232-475-7	rosin; colophony	1 - < 5 %
		dermal: LD50 = >2500 mg/kg; oral: LD50 = >4000 mg/kg	
8000-41-7	232-268-1	Terpineol	1 - < 5 %
		inhalation: LC50 = > 4,76 mg/l (vapours); dermal: LD50 = 2000 mg/kg; oral: LD50 = 2000 mg/kg	

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**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
7440-50-8	231-159-6	Copper in matrix, powdery	< 1 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2500 mg/kg Aquatic Acute 1; H400: M=10000	

**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.

**After inhalation**

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of breathing difficulties administer oxygen. In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. 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. Consult an ophthalmologist.

**After ingestion**

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician in any case!

**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 (CO<sub>2</sub>). Dry extinguishing powder. alcohol resistant foam. 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 (CO<sub>2</sub>). Metal oxide smoke, toxic

**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.

Co-ordinate fire-fighting measures to the fire surroundings.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove persons to safety. Ventilate affected area.  
Avoid contact with skin, eyes and clothes. Do not breathe vapour/aerosol.  
Personal protection equipment: see section 8

**For emergency responders**

No special measures are necessary.

**6.2. Environmental precautions**

Do not allow to enter into surface water or 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****Other information**

Take up mechanically.  
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

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

Provide adequate ventilation.  
Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.  
Wear suitable protective clothing. (See section 8.)

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

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. Do not eat, drink, smoke or sneeze at the workplace.  
Wash hands before breaks and after work. Take off contaminated clothing.

**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.  
Keep/Store only in original container.

**Hints on joint storage**

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Organic peroxides. Self-reactive substances and mixtures. 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. Humidity frost.  
storage temperature: refer to specifications.

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

See section 1.

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**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
7440-50-8	Copper, fume	-	0.2		TWA (8 h)	
107-41-5	Hexylene glycol	25	125		STEL (15 min)	
-	Rosin core solder pyrolysis products (as airborne total resin acid)	-	0.05		TWA (8 h)	
		-	0.15		STEL (15 min)	
7440-22-4	Silver (metallic)	-	0.1		TWA (8 h)	
7440-31-5	Tin (Metal)	-	2		TWA (8 h)	

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
7440-31-5	tin			
	Consumer DNEL, long-term	inhalation	systemic	3,476 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	3,476 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	systemic	11,75 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	11,75 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	80 mg/kg bw/day
	Worker DNEL, acute	dermal	systemic	133,3 mg/kg bw/day
	Consumer DNEL, acute	dermal	systemic	80 mg/kg bw/day
	Worker DNEL, long-term	dermal	systemic	133,3 mg/kg bw/day
	Consumer DNEL, acute	oral	systemic	80 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	80 mg/kg bw/day
65997-05-9	Rosin, oligomers			
	Consumer DNEL, long-term	oral	systemic	10 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	117 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	17 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	35 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	10 mg/kg bw/day
107-41-5	2-methylpentane-2,4-diol			
	Consumer DNEL, long-term	dermal	systemic	1 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	1 mg/kg bw/day
	Worker DNEL, long-term	dermal	systemic	2 mg/kg bw/day
	Worker DNEL, acute	inhalation	local	98 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	25 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	systemic	3,5 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	49 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	49 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	systemic	14 mg/m <sup>3</sup>
8000-41-7	Terpineol			
	Worker DNEL, long-term	inhalation	systemic	5,8 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	1,17 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	1,25 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	0,42 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,42 mg/kg bw/day
7440-50-8	Copper in matrix, powdery			
	Worker DNEL, long-term	dermal	systemic	137 mg/kg bw/day

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
	DNEL type			
	Worker DNEL, acute	dermal	systemic	273 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	local	1 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	1 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	137 mg/kg bw/day
	Consumer DNEL, acute	dermal	systemic	273 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	0,041 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
	Environmental compartment	
65997-05-9	Rosin, oligomers	
	Freshwater	0,0016 mg/l
	Marine water	0,00016 mg/l
	Freshwater sediment	0,007 mg/kg
	Marine sediment	0,0007 mg/kg
	Micro-organisms in sewage treatment plants (STP)	1000 mg/l
	Soil	0,00045 mg/kg
107-41-5	2-methylpentane-2,4-diol	
	Freshwater	0,429 mg/l
	Marine water	0,0429 mg/l
	Freshwater sediment	1,79 mg/kg
	Marine sediment	0,179 mg/kg
	Secondary poisoning	100 mg/kg
	Micro-organisms in sewage treatment plants (STP)	20 mg/l
	Soil	0,11 mg/kg
7440-50-8	Copper in matrix, powdery	
	Freshwater	0,0078 mg/l
	Marine water	0,0052 mg/l
	Freshwater sediment	87 mg/kg
	Marine sediment	676 mg/kg
	Micro-organisms in sewage treatment plants (STP)	0,23 mg/l
	Soil	65 mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses. (EN 166)

**Hand protection**

Wear suitable gloves.

Suitable material: Butyl rubber. Thickness of glove material: 0,5 mm break-through time: > 480 min.

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard

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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 (D).

**Respiratory protection**

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

Respiratory protection necessary at:

Insufficient ventilation

Exceeding exposure limit values

Suitable respiratory protective equipment: Combination filtering device (EN 14387) Type: A-P2/3

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.

**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:	Paste	
Colour:	metallic, grey	
Odour:	characteristic.	
		<b>Test method</b>
Melting point/freezing point:	217 - 219 °C	
Boiling point or initial boiling point and boiling range:	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not determined	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Viscosity / kinematic (at 20 °C):	not determined	
Water solubility:	not miscible	
Solubility in other solvents		
not determined		
Vapour pressure (at 20 °C):	not determined	
Density:		N/A
Relative vapour density:	not determined	

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties

The product is not: Explosive. none

Oxidizing properties

none.

**Other safety characteristics**

Solid content: not determined

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Viscosity / dynamic (at 20 °C):

not determined

Flow time:

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 hazardous reaction when handled and stored according to provisions.

Refer to chapter 10.5.

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Toxic metal fumes and metallic oxide fumes.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Toxicocinetics, metabolism and distribution**

No data available.

**Acute toxicity**

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

**ATEmix calculated**

ATE (inhalation dust/mist) 16896,617 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
107-41-5	2-methylpentane-2,4-diol				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	OECD 420
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	OECD 402
8050-09-7	rosin; colophony				
	oral	LD50 >4000 mg/kg	Rat		
	dermal	LD50 >2500 mg/kg	Rabbit		
8000-41-7	Terpineol				
	oral	LD50 2000 mg/kg	Rat	OECD 401	ECHA Dossier
	dermal	LD50 2000 mg/kg	Rat	OECD 402	ECHA Dossier
	inhalation (4 h) vapour	LC50 > 4,76 mg/l	Rat	OECD 403	
7440-50-8	Copper in matrix, powdery				
	oral	LD50 > 2500 mg/kg	Rat	ECHA Dossier	WoE
	dermal	LD50 > 2000 mg/kg	Rat	ECHA Dossier	WoE



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**Irritation and corrosivity**

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

**Sensitising effects**

May cause an allergic skin reaction. (rosin; colophony)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No data available.

**SECTION 12: Ecological information****12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h][d]	Species	Source	Method
107-41-5	2-methylpentane-2,4-diol					
	Acute fish toxicity	LC50 8690 mg/l	96 h	Pimephales promelas	ECHA Dossier	(OECD 203)
	Acute algae toxicity	ErC50 >429 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	(OECD 201)
	Acute crustacea toxicity	EC50 5410 mg/l	48 h	Daphnia magna	ECHA Dossier	(OECD 202)
	Acute bacteria toxicity	(EC50 3070 mg/l)		Pseudomonas aeruginosa	ECHA Dossier	
8000-41-7	Terpineol					
	Acute fish toxicity	LC50 62,80 mg/l	96 h	Danio rerio (zebrafish)	SDS external	
	Acute algae toxicity	ErC50 68 mg/l	72 h	Pseudokirchneriella subcapitata	SDS external	
7440-50-8	Copper in matrix, powdery					
	Acute fish toxicity	LC50 [0,004-1,1] mg/l	96 h	Fish	ECHA Dossier	READ ACROSS
	Acute algae toxicity	ErC50 [0,018-0,987] mg/l		algae (72-96h)	ECHA Dossier	READ ACROSS
	Acute crustacea toxicity	EC50 [0,001-0,792] mg/l	48 h	daphnia	ECHA Dossier	READ ACROSS
	Fish toxicity	NOEC [0,002-0,188] mg/l	12 d	Fish (4-330d)	ECHA Dossier	READ ACROSS
	Algae toxicity	NOEC [0,01-0,05] mg/l		algae (10-19d)	ECHA Dossier	READ ACROSS
	Crustacea toxicity	NOEC [0,004-0,145] mg/l		daphnia (4-240d)	ECHA Dossier	READ ACROSS

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
107-41-5	2-methylpentane-2,4-diol			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	81%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
8000-41-7	Terpineol			
	OECD Guideline 310	80%	28	ECHA Dossier
	Product is biodegradable.			

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
107-41-5	2-methylpentane-2,4-diol	0,58
8050-09-7	rosin; colophony	3 - 6,2
8000-41-7	Terpineol	2,6

**BCF**

CAS No	Chemical name	BCF	Species	Source
7440-50-8	Copper in matrix, powdery	0,02 - 20	Crangon crangon	

**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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

**12.7. 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****Disposal recommendations**

Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to (EWC) European Waste Catalogue, 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 (EWC) European Waste Catalogue:

**List of Wastes Code - residues/unused products**

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

**List of Wastes Code - used product**

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

**List of Wastes Code - 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

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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.

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	Not restricted
<b>14.2. UN proper shipping name:</b>	Not restricted
<b>14.3. Transport hazard class(es):</b>	Not restricted
<b>14.4. Packing group:</b>	Not restricted

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	Not restricted
<b>14.2. UN proper shipping name:</b>	Not restricted
<b>14.3. Transport hazard class(es):</b>	Not restricted
<b>14.4. Packing group:</b>	Not restricted

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	Not restricted
<b>14.2. UN proper shipping name:</b>	Not restricted
<b>14.3. Transport hazard class(es):</b>	Not restricted
<b>14.4. Packing group:</b>	Not restricted

**Air transport (ICAO-TI/IATA-DGR)**

<b>14.1. UN number or ID number:</b>	Not restricted
<b>14.2. UN proper shipping name:</b>	Not restricted
<b>14.3. Transport hazard class(es):</b>	Not restricted
<b>14.4. Packing group:</b>	Not restricted

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**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 75

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): E1 Hazardous to the Aquatic Environment

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

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

REACH 1907/2006 Appendix XVII, No: not relevant

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

**Additional information**

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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**

This data sheet contains changes from the previous version in section(s): 16.

16.05.2015; Rev. 1.0: Initial release

10.06.2016; Rev. 1.1: Changes in chapter: 15, 16.

08.11.2016; Rev. 1.2: Changes in chapter: 1, 8, 16.

20.03.2023/JTH; Rev. 2.0: Changes in chapter: 1 - 16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

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 concentration

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

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

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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

H412 Harmful to aquatic life with long lasting effects.

**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.

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