

Safety Data Sheet

according to Regulation (EC) No 1907/2006

OT2 SN100C T3/4; P-OT2M SN100C T3/4

Revision date: 18.02.2021

Product code: 950610

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

OT2 SN100C T3/4; P-OT2M SN100C T3/4

Further trade names

This MSDS covers the following products:

OT2 SN100C T3

OT2 SN100C T4

P-OT2M SN100C T3

P-OT2M SN100C T4

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

Solder paste

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: 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 915-114

Responsible Department: cia@BalverZinn.com

1.4. Emergency telephone**number:**

+49 (0) 700 24 112 112 (Contract-ID:BZW)

from USA/Canada pls call 011 49 700 24 112 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Reproductive toxicity: Repr. 1B

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May damage the unborn child.

Harmful to aquatic life with long lasting effects.

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

bis(2-(2-methoxyethoxy)ethyl) ether

Signal word: Danger

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Pictograms:



Hazard statements

- H360D May damage the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

- P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Special labelling of certain mixtures

- EUH208 Contains maleic acid. May produce an allergic reaction.
Restricted to professional users.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
7440-31-5	tin	80 - 90 %
	231-141-8	
65997-06-0	Rosin, hydrogenated	2,5 - 5 %
	266-041-3	
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol	1 - 2 %
	205-592-6	603-183-00-0
	Eye Dam. 1; H318	
1072-62-4	2-ethylimidazole	<1 %
	214-011-5	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether	<1 %
	205-594-7	
	Repr. 1B; H360Df	
7440-50-8	Copper	0.5 - < 1 %
	231-159-6	
	Flam. Sol. 2, Aquatic Acute 1, Aquatic Chronic 1; H228 H400 H410	

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64-17-5	ethanol, ethyl alcohol		0 - 0,2 %
	200-578-6	603-002-00-5	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319		
110-16-7	maleic acid		<0,1 %
	203-742-5	607-095-00-3	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT SE 3; H302 H315 H319 H317 H335		
7440-02-0	nickel powder		<0,1 %
	231-111-4	028-002-01-4	
	Carc. 2, Skin Sens. 1, STOT RE 1, Aquatic Chronic 3; H351 H317 H372 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	
143-22-6	205-592-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol	1 - 2 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg Eye Dam. 1; H318: >= 30 - 100 Eye Irrit. 2; H319: >= 20 - < 30	
143-24-8	205-594-7	bis(2-(2-methoxyethoxy)ethyl) ether	<1 %
		oral: LD50 = 3850 mg/kg	
64-17-5	200-578-6	ethanol, ethyl alcohol	0 - 0,2 %
		inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = >5000 mg/kg Eye Irrit. 2; H319: >= 50 - 100	
110-16-7	203-742-5	maleic acid	<0,1 %
		oral: LD50 = (2870) mg/kg Skin Sens. 1; H317: >= 0,1 - 100	
7440-02-0	231-111-4	nickel powder	<0,1 %
		inhalation: LC50 = >=10,2 mg/l (dusts or mists); oral: LD50 = >9000 mg/kg	

Further Information

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: bis(2-(2-methoxyethoxy)ethyl) ether (CAS: 143-24-8)

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

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical advice/attention.

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. 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. Get medical advice/attention.

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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**

Sand
Extinguishing powder
D -powder

Unsuitable extinguishing media

Extinguishing media which must not be used for safety reasons:

Water
High power water jet
Water spray 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). Nitrogen oxides (NO_x). Metal oxide smoke, toxic.**5.3. Advice for firefighters**

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

In case of fire: Wear self-contained breathing apparatus.

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.

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

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

Ventilate affected area. Remove persons to safety.

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

Wear personal protection equipment. (See section 8.)

Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

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

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**

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Advice on safe handling

Technical ventilation of workplace
Avoid exposure - obtain special instructions before use.
Do not breathe smoke. 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.

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. Gas. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Ammonium nitrate and preparations containing ammonium nitrate. Combustible toxic substances. 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. 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/m ³	fibres/ml	Category	Origin
7440-50-8	Copper, fume	-	0.2		TWA (8 h)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
-	Nickel and its inorganic compounds (except nickel tetracarbonyl): nickel and water-insoluble nickel compounds (as Ni)	-	0.5		TWA (8 h)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
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
110-16-7	maleic acid			
	Worker DNEL, long-term	dermal	local	0,04 mg/cm ²

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Worker DNEL, acute	dermal	local	0,55 mg/cm ²
Worker DNEL, long-term	dermal	systemic	3,3 mg/kg bw/day
Worker DNEL, acute	dermal	systemic	58 mg/kg bw/day

PNEC values

CAS No	Substance	Value
Environmental compartment		
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether	
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
Freshwater		32 mg/l
Soil		6,7 mg/kg
110-16-7 maleic acid		
Freshwater		0,074 mg/l
Freshwater sediment		0,0624 mg/kg
Micro-organisms in sewage treatment plants (STP)		3,33 mg/l

8.2. Exposure controls



Appropriate engineering controls

Technical ventilation of workplace
Process within closed systems.

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. (BS/EN 166)

Hand protection

Wear suitable gloves. (BS EN 374)
for coarse soldering works: heat insulating.
The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 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

Protective clothing (heat-resistant)
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

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Respiratory protection

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

Respiratory protection necessary at:

Insufficient ventilation

Release of: Product.

Exceeding exposure limit values

Suitable respiratory protective equipment:

Combination filtering device (EN 14387); Type : A-P3

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

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.	
pH-Value:		not determined

Changes in the physical state

Melting point:		227 °C
Boiling point or initial boiling point and boiling range:		not determined
Flash point:		not determined

Explosive properties

none

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

Oxidizing properties

none.

Vapour pressure: (at 20 °C)		not determined
Density:		not determined
Water solubility:		not miscible

Solubility in other solvents

not determined

Viscosity / dynamic: (at 20 °C)		not determined
Viscosity / kinematic: (at 20 °C)		not determined
Flow time:		not determined
Relative vapour density:		not determined

9.2. Other information

Solid content:		not determined
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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

Reacts with : Strong acid, Oxidising agent

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 (CO₂). Nitrogen oxides (NO_x). Metal oxide smoke, toxic.

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.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol				
	oral	LD50 >5000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rabbit	ECHA Dossier	
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether				
	oral	LD50 3850 mg/kg	Rat. (OECD 401)	ECHA Dossier	
64-17-5	ethanol, ethyl alcohol				
	oral	LD50 >5000 mg/kg	Rat.	ECHA Dossier	
	inhalation (4 h) vapour	LC50 124,7 mg/l	Rat.	ECHA Dossier	
110-16-7	maleic acid				
	oral	LD50 (2870) mg/kg	Rat	ECHA Dossier	
7440-02-0	nickel powder				
	oral	LD50 >9000 mg/kg	Rat	ECHA Dossier	
	inhalation (1 h) aerosol	LC50 >=10,2 mg/l	Rat	ECHA Dossier	

Irritation and corrosivity

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

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Sensitising effects

Contains maleic acid. May produce an allergic reaction.
May cause sensitisation especially in sensitive humans.

Carcinogenic/mutagenic/toxic effects for reproduction

May damage the unborn child. (bis(2-(2-methoxyethoxy)ethyl) ether)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
bis(2-(2-methoxyethoxy)ethyl) ether:
Developmental toxicity/teratogenicity:
Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study)
Species: Rabbit.
Exposure duration: 14 d.
Results: NOEL = 125 mg/kg
Literature information: ECHA Dossier

Nickel:

Germ cell mutagenicity:

Method: (AMES SALMONELLA TYPHIMURIUM): -

Result: negative.

Literature information: WONG, PK; MUTAGENICITY OF HEAVY METALS; BULL. ENVIRON. CONTAM. TOXICOL. 40(4): 597-603, 1988

Carcinogenicity:

Method: OECD Guideline 451 (Carcinogenicity Studies)

Species: Rat.

Length of test: 2 years

Result: NOAEC = 0.4 mg/m³

Literature information: ECHA Dossier

Evidence exists for human carcinogenicity. [IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS, INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, LYON, FRANCE, p. V2 126 Y73][IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO HUMANS, INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, LYON, FRANCE, p. V11 75 Y76]

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.

bis(2-(2-methoxyethoxy)ethyl) ether:

Subacute oral toxicity:

Method: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Species: Rat

Exposure duration: 28 d.

Results: NOEL = 250 mg/kg

Literature information: ECHA Dossier

Nickel:

Subchronic inhalation toxicity :

Method: OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)

Species: Rat.

Exposure duration: 28 d

Result: NOEL = 4 mg/kg

Literature information: ECHA Dossier

Aspiration hazard

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

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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
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol					
	Acute fish toxicity	LC50 2200-4600 mg/l	96 h	Leuciscus idus	ECHA Dossier	
	Acute algae toxicity	ErC50 >500 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50 2210 mg/l	48 h	Daphnia magna	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 extern	
	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	
7440-50-8	Copper					
	Acute fish toxicity	LC50 0,00756 mg/l	96 h	Periophthalmus waltoni	in analogy; MSDS extern.	
	Acute algae toxicity	ErC50 0,013 mg/l	72 h	Pseudokirchnerella subcapitata	in analogy; MSDS extern.	
	Acute crustacea toxicity	EC50 0,0021 mg/l	48 h	Daphnia magna	in analogy; MSDS extern.	
	Fish toxicity	NOEC 0,0008 mg/l	42 d	Oreochromis niloticus	in analogy; MSDS extern.	
	Algae toxicity	NOEC 0,0025 mg/l	3 d	Nitzschia closterium	in analogy; MSDS extern.	
	Crustacea toxicity	NOEC 0,002 mg/l	21 d	Daphnia magna	in analogy; MSDS extern.	
64-17-5	ethanol, ethyl alcohol					
	Acute fish toxicity	LC50 14200 mg/l	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50 275 mg/l	72 h	Chlorella vulgaris	ECHA Dossier	
	Acute crustacea toxicity	EC50 5012 mg/l	48 h	Ceriodaphnia dubia	ECHA Dossier	
	Crustacea toxicity	NOEC 9,6 mg/l	9 d	Daphnia magna	ECHA Dossier	
110-16-7	maleic acid					
	Acute algae toxicity	ErC50 (74,35) mg/l	96 h	Pseudokirchnerella subcapitata (OECD 201)	ECHA Dossier	
	Acute crustacea toxicity	EC50 (42,81) mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier	
7440-02-0	nickel powder					
	Acute algae toxicity	ErC50 0,148 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	

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	Acute crustacea toxicity	EC50 mg/l	0,276	48 h	Ceriodaphnia spec	ECHA Dossier	
	Acute bacteria toxicity	(33 mg/l)		0,5 h	activated sludge	ECHA Dossier	

12.2. Persistence and degradability

CAS No	Chemical name	Value	d	Source
	Method			
	Evaluation			
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol			
	OECD 301D/ EEC 92/69/V, C.4-E	95%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
64-17-5	ethanol, ethyl alcohol			
	not determined	84%	20	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
110-16-7	maleic acid			
	OECD Guideline 301 OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	97,08%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol	0,51
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether	-0,84
64-17-5	ethanol, ethyl alcohol	-0,31
110-16-7	maleic acid	-0,79

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****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

160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing hazardous substances; hazardous waste

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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 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)**

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

Inland waterways transport (ADN)

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

Marine transport (IMDG)

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: Not restricted
14.2. UN proper shipping name: Not restricted
14.3. Transport hazard class(es): Not restricted
14.4. Packing group: Not restricted

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 27, Entry 40

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

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

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Information according to 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

Additional information

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
REACH 1907/2006 Appendix XVII, No (mixture): 28/29/30

National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

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; 11.05.2015, Initial release
- Rev. 1.1; 10.06.2016, Documentation of changes: chapter: 15, 16.
- Rev. 1.2; 08.11.2016, Documentation of changes: chapter: 1, 8, 16.
- Rev. 2,0; 18.02.2021, Documentation of changes: 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

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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
Repr. 1B; H360D	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains maleic acid. May produce an allergic reaction.

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.)