

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 1 of 14

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

OT2 SAC3 T3/4; P-OT2M SAC3 T3/4

**Further trade names**

This MSDS covers the following products:

OT2 SAC3 T3

OT2 SAC3 T4

P-OT2M SAC3 T3

P-OT2M SAC3 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: NL-4823 AL Breda  
Telephone: +31 76 5445566  
e-mail: info@Cobar.com

Telefax: +31 76 5445577

**Supplier**

Company name: Balver Zinn Josef Jost GmbH & Co. KG  
Street: Blintroper Weg 11  
Place: D-58802 Balve  
Telephone: +49 2375 915-0  
Responsible Department: sds@balverzinn.com

Telefax: +49 2375 915-1700

**1.4. Emergency telephone number:**

Chemtrec: +44(0) 870-8200418

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

Hazard categories:

Reproductive toxicity: Repr. 1B

Hazard Statements:

May damage the unborn child.

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

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

**Signal word:** Danger**Pictograms:**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 2 of 14

**Hazard statements**

H360D May damage the unborn child.

**Precautionary statements**

P201 Obtain special instructions before use.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P501 Dispose of contents/container to 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	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7440-31-5	tin			80 - 90 %
	231-141-8			
65997-06-0	Rosin, hydrogenated			1 - < 5 %
	266-041-3			
7440-22-4	silver			1 - < 5 %
	231-131-3		01-2119555669-21	
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid			1 - < 5 %
	434-230-1	607-682-00-4		
	Aquatic Chronic 4; H413			
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether			< 1 %
	205-594-7		01-2119958965-16	
	Repr. 1B; H360Df			
7440-50-8	copper			< 1 %
	231-159-6			
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			

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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 3 of 14

**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 drunk 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.

**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 mixture**

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Metal oxide smoke, toxic.

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
Wear a self-contained breathing apparatus and chemical protective clothing.

**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.)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 4 of 14

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 articles and floor according to the environmental legislation.

**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**

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.

**Advice on storage compatibility**

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. 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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 5 of 14

**Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7440-50-8	Copper, dusts and mists (as Cu)	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL
7440-50-8	Copper, fume	-	0.2		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
7440-22-4	Silver, metallic	-	0.1		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 6 of 14

**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
7440-22-4	silver			
Consumer DNEL, long-term		oral	systemic	1,2 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	0,1 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	0,04 mg/m <sup>3</sup>
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 <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	0,0005 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,001 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,001 mg/kg bw/day
7440-50-8	copper			
Worker DNEL, acute		dermal	systemic	273 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	273 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	20 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	137 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	137 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	20 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
110-16-7	maleic acid			
Worker DNEL, long-term		dermal	local	0,04 mg/cm <sup>2</sup>
Worker DNEL, acute		dermal	local	0,55 mg/cm <sup>2</sup>
Worker DNEL, long-term		dermal	systemic	3,3 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	58 mg/kg bw/day

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 7 of 14

**PNEC values**

CAS No	Substance	Value
Environmental compartment		
7440-22-4	silver	
Soil		1,41 mg/kg
Freshwater		0,00004 mg/l
Marine sediment		438,13 mg/kg
Freshwater sediment		438,13 mg/kg
Marine water		0,00086 mg/l
Micro-organisms in sewage treatment plants (STP)		0,025 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
7440-50-8	copper	
Freshwater sediment		87 mg/kg
Marine water		0,0052 mg/l
Freshwater		0,0078 mg/l
Marine sediment		678 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,23 mg/l
Soil		65 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. (DIN EN 166)

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 8 of 14

**Hand protection**

Wear suitable gloves. (DIN EN 374)  
for coarse soldering works: heat insulating.  
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**

Protective clothing (heat-resistant)  
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:  
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.  
Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**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.

**Test method**

pH-Value:	not determined
-----------	----------------

**Changes in the physical state**

Melting point:	219 °C
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
--------------------------------	----------------



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SAC3 T3/4; P-OT2M SAC3 T3/4

Revision date: 08.11.2016

Product code: 950611

Page 9 of 14

Density:	not determined
Water solubility:	not miscible
<b>Solubility in other solvents</b>	
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**

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 (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SAC3 T3/4; P-OT2M SAC3 T3/4

Revision date: 08.11.2016

Product code: 950611

Page 10 of 14

CAS No	Chemical name			
	Exposure route	Dose	Species	Source
7440-31-5	tin			
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier
	inhalative (4 h) aerosol	LC50 (>4,75) mg/l	Rat	ECHA Dossier
7440-22-4	silver			
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier
	inhalative (4 h) aerosol	LC50 >5,16 mg/l	Rat	ECHA Dossier
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid			
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether			
	oral	LD50 3850 mg/kg	Rat. (OECD 401)	ECHA Dossier
7440-50-8	copper			
	inhalative (4 h) aerosol	LC50 >5,11 mg/l	Rat	ECHA Dossier
110-16-7	maleic acid			
	oral	LD50 (2870) mg/kg	Rat	ECHA Dossier

**Irritation and corrosivity**

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

**Sensitising effects**

Based on available data, the classification criteria are not met.  
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 (CAS-No.: 143-24-8):  
In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.  
literature information: ECHA Dossier

**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 (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

**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**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SAC3 T3/4; P-OT2M SAC3 T3/4

Revision date: 08.11.2016

Product code: 950611

Page 11 of 14

**12.1. Toxicity**

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d]	Species	Source
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid				
	Acute algae toxicity	ErC50 (>0,49) mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50 (>1) 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
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

**12.2. Persistence and degradability**

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
144413-22-9	complex reaction mass of Chinese gum rosin post reacted with acrylic acid			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	25%	28	ECHA Dossier
	Not readily biodegradable (according to OECD criteria)			
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
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether	-0,84
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****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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SAC3 T3/4; P-OT2M SAC3 T3/4

Revision date: 08.11.2016

Product code: 950611

Page 12 of 14

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**

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

**Waste disposal number of used product**

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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SAC3 T3/4; P-OT2M SAC3 T3/4

Revision date: 08.11.2016

Product code: 950611

Page 13 of 14

## 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): No information available.

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

**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 juvenils 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 contaminating class (D): 2 - 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; 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.

**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)

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 )

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SAC3 T3/4; P-OT2M SAC3 T3/4**

Revision date: 08.11.2016

Product code: 950611

Page 14 of 14

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360D	May damage the unborn child.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H413	May cause long lasting harmful effects to aquatic life.
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.)*