

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 1 of 14

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

OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4

**Further trade names**

This MSDS covers the following products:

OT2 SCAN-Ge071 T3

OT2 SCAN-Ge071 T4

P-OT2M SCANGe071 T3

P-OT2M SCANGe071 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 2

Hazard Statements:

May damage the unborn child.

Toxic 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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 2 of 14

**Pictograms:**



**Hazard statements**

H360D May damage the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.  
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.  
P391 Collect spillage.  
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			
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol; TEGBE; triethylene glycol monobutylether; butoxytriethylene glycol			1 - < 3 %
	205-592-6	603-183-00-0		
	Eye Dam. 1; H318			
7440-22-4	Silver powder (< 1 mm)			<1 %
	231-131-3		01-2119555669-21	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether			0.5 - < 1 %
	205-594-7			
	Repr. 1B; H360Df			
7440-50-8	Copper			<1 %
	231-159-6			
	Flam. Sol. 2, Aquatic Acute 1, Aquatic Chronic 1; H228 H400 H410			
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			

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4

Revision date: 24.02.2021

Product code: 950612

Page 3 of 14

7440-02-0	nickel		<0,1 %
	231-111-4	028-002-00-7	
	Flam. Sol. 1, Carc. 2, Skin Sens. 1, STOT RE 1, Aquatic Chronic 3; H228 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 - < 3 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg Eye Dam. 1; H318: >= 30 - 100 Eye Irrit. 2; H319: >= 20 - < 30		
7440-22-4	231-131-3	Silver powder (< 1 mm)	<1 %
	M akut; H400: M=10 M chron.; H410: M=10		
143-24-8	205-594-7	bis(2-(2-methoxyethoxy)ethyl) ether	0.5 - < 1 %
	oral: LD50 = 3850 mg/kg		
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	<0,1 %
	inhalation: LC50 = 10,2 mg/l (dusts or mists); oral: LD50 = > 5000 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 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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 4 of 14

**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.  
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****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.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 5 of 14

**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 <sup>3</sup>	fibres/ml	Category	Origin
7440-50-8	Copper, fume	-	0.2		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
7440-22-4	Silver, metallic	-	0.1		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 <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
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
7440-02-0	nickel			
Worker DNEL, acute		inhalation	systemic	680 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,05 mg/m <sup>3</sup>

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 6 of 14

Worker DNEL, long-term	inhalation	systemic	0,05 mg/m <sup>3</sup>
Worker DNEL, acute	inhalation	local	4 mg/m <sup>3</sup>
Worker DNEL, long-term	dermal	local	0,035 mg/cm <sup>2</sup>
Consumer DNEL, long-term	inhalation	systemic	0,02 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	systemic	408 mg/m <sup>3</sup>
Consumer DNEL, long-term	inhalation	local	0,02 mg/m <sup>3</sup>
Consumer DNEL, acute	inhalation	local	2,4 mg/m <sup>3</sup>
Consumer DNEL, long-term	dermal	local	0,035 mg/cm <sup>2</sup>
Consumer DNEL, long-term	oral	systemic	0,02 mg/kg bw/day
Consumer DNEL, acute	oral	systemic	0,012 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4

Revision date: 24.02.2021

Product code: 950612

Page 7 of 14

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).

**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:	217 - 225 °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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 8 of 14

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
----------------	----------------

**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.

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 mg/kg >5000	Rat	ECHA Dossier	
	dermal	LD50 mg/kg >2000	Rabbit	ECHA Dossier	
143-24-8	bis(2-(2-methoxyethoxy)ethyl) ether				
	oral	LD50 mg/kg 3850	Rat. (OECD 401)	ECHA Dossier	
110-16-7	maleic acid				
	oral	LD50 mg/kg (2870)	Rat	ECHA Dossier	
7440-02-0	nickel				
	oral	LD50 mg/kg > 5000	Rat	ECHA Dossier	



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4

Revision date: 24.02.2021

Product code: 950612

Page 9 of 14

	inhalation aerosol	LC50	10,2 mg/l	Rat	ECHA Dossier	
--	--------------------	------	-----------	-----	--------------	--

**Irritation and corrosivity**

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

**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 (CAS-No.: 143-24-8):

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/m<sup>3</sup>

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 (CAS-No.: 143-24-8):

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 10 of 14

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**

**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.	
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					
	Acute fish toxicity	LC50 > 100 mg/l	96 h	Danio rerio	ECHA Dossier	
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Selenastrum capricornutum	ECHA Dossier	
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	ECHA Dossier	

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4

Revision date: 24.02.2021

Product code: 950612

Page 11 of 14

**12.2. Persistence and degradability**

CAS No	Chemical name	Method	Value	d	Source
		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).				
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
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

**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

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4

Revision date: 24.02.2021

Product code: 950612

Page 12 of 14

**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:</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:</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:</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:</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

**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

2010/75/EU (VOC):	No information available.
2004/42/EC (VOC):	No information available.
Information according to 2012/18/EU (SEVESO III):	E2 Hazardous to the Aquatic Environment

**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**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4**

Revision date: 24.02.2021

Product code: 950612

Page 13 of 14

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; 24.02.2021, 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  
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 2; H411	Calculation method

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## OT2 SCAN-Ge071 T3/4; P-OT2M SCANGe071 T3/4

Revision date: 24.02.2021

Product code: 950612

Page 14 of 14

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

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.
H411	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.)*