SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 04-Oct-2017 **Revision Date** 8-May-2023 **Revision Number** 7

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Code(s) 800127

Product Name CA-40 BW01DI

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Solder Mask Component

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Importer
REACH OR: CAPLINQ Europe
BV at Industrieweg 15E
1566JN Assendelft,
The Netherlands
+31208932224

Supplier
Taiyo America, Inc.
2675 Antler Drive
Carson City, NV 89701
TEL: 775-885-9959 (M-F, 8 AM - 4 PM, Pacific Time Zone)

For further information, please contact
E-mail address SDSinfo@taiyo-america.com

1.4. Emergency telephone number

Emergency telephone +1-813-248-0585 International - product safety issues (24 hours; in most major languages)
+1-800-255-3924 Within U.S.A. only (24 hours)

Emergency telephone - §45 - (EC)1272/2008	
Europe	**112**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains Bisphenol A diglycidyl ether, melamine

Signal word
Warning

Hazard statements
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H351 - Suspected of causing cancer
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves and eye/face protection
P321 - Specific treatment (see .? on this label)
P337 + P313 - If eye irritation persists: Get medical advice/attention
P501 – Dispose of contents/ container t oa n approved waste disposal plant

2.3. Other hazards
Toxic to aquatic life. Combustible liquid.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Barium sulfate 7727-43-7	20-30	01-2119491274-35	231-784-4	Not Classified	-	-	-
2-(2-ethoxyethoxy)ethyl acetate 112-15-2	5-10	01-2119966911-29	203-940-1	Eye Irrit. 2 (H319)	-	-	-
Bisphenol A diglycidyl ether 1675-54-3	5-10	01-2119456619-26	No information available	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 :: C>=5%	-	-
(2-methoxymethylethoxy)propanol	1-5	01-2119450011-60	252-104-2	Not Classified	-	-	-

34590-94-8							
Melamine 108-78-1	1-5	No data available	(613-345-00-2) 203-615-4	Carc. 2 (H351) STOT RE 2 (H373)	-	-	-
Naphtha (petroleum), heavy aromatic 64742-94-5	1-5	01-2119917229-35	265-198-5	Flam. Liq. 1 (H224) Skin Irrit. 2 (H315) Asp. Tox. 1 (H304) Repr. 2 (H361) STOT SE 3 (H336) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	-	-	-
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]- 125051-32-3	< 1	No data available	412-000-1	Repr. 2 (H361f) STOT RE 2 (H373) Aquatic Chronic 2 (H411) Flam. Sol. 1 (H228)	-	-	-
Naphthalene 91-20-3	< 0.1	No data available	202-049-5	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	-	-
1,2,4 Trimethylbenzene 95-63-6	< 0.1	No data available	202-436-9	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)	-	-	-

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Barium sulfate 7727-43-7	307000	No data available	No data available	No data available	No data available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
2-(2-ethoxyethoxy)ethyl acetate 112-15-2	11000	15100	No data available	No data available	No data available
Bisphenol A diglycidyl ether 1675-54-3	11266.1	20000	No data available	No data available	No data available
(2-methoxymethylethoxy)propanol 34590-94-8	5350	9500	No data available	No data available	No data available
Melamine 108-78-1	3161	1000	No data available	No data available	No data available
Naphtha (petroleum), heavy aromatic 64742-94-5	5000	2000	No data available	No data available	No data available
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]- 125051-32-3	No data available	2000	No data available	No data available	No data available
Naphthalene 91-20-3	1110	1120	0.085	No data available	No data available
1,2,4 Trimethylbenzene 95-63-6	3280	3160	18	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Get medical attention immediately if symptoms occur. Remove to fresh air.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO2). Foam. Dry chemical.

Unsuitable extinguishing media Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Combustible material. Vapours may travel to source of ignition and flash back. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Specific/special fire-fighting measures Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. Dyke far ahead of liquid spill for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash it before reuse. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep out of the reach of children. Keep away from sources of ignition - No smoking.

7.3. Specific end use(s)

Specific use(s).
No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Barium sulfate 7727-43-7	-	-	TWA: 5 mg/m^3	TWA: 10.0 mg/m^3	TWA: 10 mg/m^3 TWA: 4 mg/m^3
Bisphenol A diglycidyl ether 1675-54-3	-	-	-	TWA: 1.0 mg/m^3	-
(2-methoxymethylethoxy) propanol 34590-94-8	TWA: 50 ppm TWA: 308 mg/m^3 *	TWA: 50 ppm TWA: 307 mg/m^3 STEL 100 ppm STEL 614 mg/m^3 H*	TWA: 50 ppm TWA: 308 mg/m^3 *	TWA: 50 ppm TWA: 308.0 mg/m^3 K*	TWA: 50 ppm TWA: 308 mg/m^3 *
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3 H*	TWA: 10 ppm TWA: 53 mg/m^3 STEL: 15 ppm STEL: 80 mg/m^3 *	STEL: 75.0 mg/m^3 TWA: 50.0 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3
1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3 STEL 30 ppm STEL 150 mg/m^3	-	TWA: 20 ppm TWA: 100.0 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
(2-methoxymethylethoxy) propanol 34590-94-8	* TWA: 50 ppm TWA: 308 mg/m^3	TWA: 270 mg/m^3 Ceiling: 550 mg/m^3 *	TWA: 50 ppm TWA: 309 mg/m^3 H*	TWA: 50 ppm TWA: 308 mg/m^3 A*	TWA: 50 ppm TWA: 310 mg/m^3 iho*
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 50 mg/m^3 Ceiling: 100 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 1 ppm TWA: 5 mg/m^3

					STEL: 2 ppm STEL: 10 mg/m^3
1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 100 mg/m^3 Ceiling: 250 mg/m^3 *	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3
Chemical name	France	Germany	Germany MAK	Greece	Hungary
Barium sulfate 7727-43-7	-	TWA: 1.25 mg/m^3 TWA: 10 mg/m^3	TWA: 4 mg/m^3 TWA: 0.3 mg/m^3 Peak: 2.4 mg/m^3	-	-
(2-methoxymethylethoxy) propanol 34590-94-8	TWA: 50 ppm TWA: 308 mg/m^3 *	TWA: 50 ppm TWA: 310 mg/m^3	TWA: 50 ppm TWA: 310 mg/m^3 Peak: 50 ppm Peak: 310 mg/m^3	TWA: 100 ppm TWA: 600 mg/m^3 STEL: 150 ppm STEL: 900 mg/m^3 skin - potential for cutaneous absorption	TWA: 308 mg/m^3
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 0.4 ppm TWA: 2 mg/m^3 H*	*	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 50 mg/m^3
1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m^3 STEL: 50 ppm STEL: 250 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3 Peak: 40 ppm Peak: 200 mg/m^3	TWA: 25 ppm TWA: 125 mg/m^3	TWA: 100 mg/m^3
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Barium sulfate 7727-43-7	TWA: 5 mg/m^3 STEL: 15 mg/m^3	-	TWA: 5 mg/m^3	-	-
(2-methoxymethylethoxy) propanol 34590-94-8	TWA: 50 ppm TWA: 308 mg/m^3 STEL: 150 ppm STEL: 924 mg/m^3 Sk*	TWA: 50 ppm TWA: 308 mg/m^3 pelle*	TWA: 100 ppm TWA: 606 mg/m^3 STEL: 150 ppm STEL: 909 mg/m^3 *	TWA: 50 ppm TWA: 308 mg/m^3 *	* TWA: 300 mg/m^3 TWA: 50 ppm STEL: 450 mg/m^3 STEL: 75 ppm
Melamine 108-78-1	-	-	-	-	TWA: 0.5 mg/m^3
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m^3 STEL: 30 ppm STEL: 150 mg/m^3	-	TWA: 10 ppm TWA: 52 mg/m^3 *	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3
1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m^3 STEL: 60 ppm STEL: 300 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3	-	TWA: 20 ppm TWA: 100 mg/m^3	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Barium sulfate 7727-43-7	-	-	-	TWA: 0.5 mg/m^3 STEL: 1.5 mg/m^3	-
(2-methoxymethylethoxy) propanol 34590-94-8	* TWA: 308 mg/m^3 TWA: 50 ppm	* TWA: 50 ppm TWA: 308 mg/m^3	TWA: 300 mg/m^3	TWA: 50 ppm TWA: 300 mg/m^3 STEL: 75 ppm STEL: 375 mg/m^3 H*	STEL: 480 mg/m^3 TWA: 240 mg/m^3 *
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]- 125051-32-3	-	-	-	-	STEL: 30 mg/m^3 TWA: 10 mg/m^3
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 50 mg/m^3 STEL: 80 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3 STEL: 20 ppm STEL: 75 mg/m^3	STEL: 50 mg/m^3 TWA: 20 mg/m^3 *
1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 100 mg/m^3 STEL: 200 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3 STEL: 150 mg/m^3	STEL: 170 mg/m^3 TWA: 100 mg/m^3 *

				STEL: 30 ppm	
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Barium sulfate 7727-43-7	TWA: 5 mg/m^3	-	TWA: 4 mg/m^3 TWA: 1.5 mg/m^3	-	TWA: 10 mg/m^3
(2-methoxymethylethoxy) propanol 34590-94-8	TWA: 50 ppm TWA: 308 mg/m^3 STEL: 150 ppm P*	TWA: 50 ppm TWA: 308 mg/m^3 *	TWA: 50 ppm TWA: 308 mg/m^3 *	TWA: 50 ppm TWA: 308 mg/m^3 STEL: STEL ppm STEL: STEL mg/m^3 *	TWA: 50 ppm TWA: 308 mg/m^3 vía dérmica*
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m^3 STEL: 15 ppm P*	TWA: 10 ppm TWA: 50 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3 * Ceiling: 80 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3 STEL: STEL ppm STEL: STEL mg/m^3 *	TWA: 10 ppm TWA: 53 mg/m^3 STEL: 15 ppm STEL: 80 mg/m^3 vía dérmica*
1,2,4 Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3 STEL: STEL ppm STEL: STEL mg/m^3	TWA: 20 ppm TWA: 100 mg/m^3

Chemical name	Sweden	Switzerland	United Kingdom
Barium sulfate 7727-43-7	-	-	TWA: 10 mg/m^3 TWA: 4 mg/m^3 STEL: 30 mg/m^3 STEL: 12 mg/m^3
2-(2-ethoxyethoxy)ethyl acetate 112-15-2	NGV: 15 ppm NGV: 110 mg/m^3 Vägledande KGV: 30 ppm Vägledande KGV: 220 mg/m^3 *	-	-
(2-methoxymethylethoxy)propanol 34590-94-8	NGV: 50 ppm NGV: 300 mg/m^3 Vägledande KGV: 75 ppm Vägledande KGV: 450 mg/m^3 *	TWA: 50 ppm TWA: 300 mg/m^3 STEL: 50 ppm STEL: 300 mg/m^3	TWA: 50 ppm TWA: 308 mg/m^3 STEL: 150 ppm STEL: 924 mg/m^3 Sk*
Naphthalene 91-20-3	NGV: 10 ppm NGV: 50 mg/m^3 Vägledande KGV: 15 ppm Vägledande KGV: 80 mg/m^3	TWA: 10 ppm TWA: 50 mg/m^3 H*	-
1,2,4 Trimethylbenzene 95-63-6	NGV: 20 ppm NGV: 100 mg/m^3 Bindande KGV: 35 ppm Bindande KGV: 170 mg/m^3	-	-

Biological occupational exposure limits

Chemical name	Denmark	Finland	France	Germany	Germany MAK
Naphthalene 91-20-3	-	-	-	35 µg/L - BAR (end of exposure or end of shift) urine 35 µg/L - BAR (for long-term exposures: at the end of the shift after several shifts) urine	-
1,2,4 Trimethylbenzene 95-63-6	-	-	600 mg/g creatinine - urine (Total Dimethylbenzoic acids (after hydrolysis) in urine) - end of shift after several shits	400 mg/g Creatinine (urine - Dimethylbenzoic acid (sum of all isomers after hydrolysis) end of shift) 400 mg/g Creatinine	400 mg/g Creatinine (urine - Dimethylbenzoic acid (sum of all isomers after hydrolysis) end of shift) 400 mg/g Creatinine

				(urine - Dimethylbenzoic acid (sum of all isomers after hydrolysis) for long-term exposures: at the end of the shift after several shifts) 400 mg/g Creatinine - BAT (end of exposure or end of shift) urine 400 mg/g Creatinine - BAT (for long-term exposures: at the end of the shift after several shifts) urine	(urine - Dimethylbenzoic acid (sum of all isomers after hydrolysis) for long-term exposures: at the end of the shift after several shifts)

Chemical name	Hungary	Ireland	Italy	Italy REL
Naphthalene 91-20-3	-	-	-	- () - end of shift

Chemical name	Latvia	Luxembourg	Romania	Slovakia
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]- 125051-32-3	-	-	5 mg/g Creatinine - urine (Fluorine) - end of shift	-

Chemical name	Slovenia	Spain	Switzerland	United Kingdom
1,2,4 Trimethylbenzene 95-63-6	400 mg/g Creatinine - urine (Dimethylbenzoic acid (all isomers after hydrolysis)) - at the end of the work shift; for long-term exposure: at the end of the work shift after several consecutive workdays	-	-	-

Derived No Effect Level (DNEL) - Workers **Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
Barium sulfate 7727-43-7	-	-	10 mg/m^3 [4] [6] 10 mg/m^3 [5] [6]
2-(2-ethoxyethoxy)ethyl acetate 112-15-2	-	1.48 mg/kg bw/day [4] [6]	10.45 mg/m^3 [4] [6]
Bisphenol A diglycidyl ether 1675-54-3	-	0.75 mg/kg bw/day [4] [6]	4.93 mg/m^3 [4] [6]
(2-methoxymethylethoxy)propanol 34590-94-8	-	283 mg/kg bw/day [4] [6]	308 mg/m^3 [4] [6]
Melamine 108-78-1	-	11.8 mg/kg bw/day [4] [6] 117 mg/kg bw/day [4] [7]	8.3 mg/m^3 [4] [6] 82.3 mg/m^3 [4] [7]
Naphthalene 91-20-3	-	3.57 mg/kg bw/day [4] [6]	25 mg/m^3 [4] [6] 25 mg/m^3 [5] [6]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

8.2. Exposure controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Hand protection	Protective gloves.
Skin and body protection	Lightweight protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
Environmental exposure controls	Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid
Physical state	Liquid
Colour	Cream
Odour	Mild solvent
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	80 °C	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	1.456	None known
Bulk density	No data available	
Liquid Density	No data available	
Vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

VOC Content (%)	10.73
VOC	156.2 g/L

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Incompatible materials. Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating gases and vapours. Carbon monoxide. Carbon dioxide (CO2). Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes skin irritation. (based on components).

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document:

ATEmix (oral) 21,889.40 mg/kg
ATEmix (dermal) 33,822.70 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Barium sulfate	= 307000 mg/kg (Rat)	-	-
2-(2-ethoxyethoxy)ethyl acetate	= 11 g/kg (Rat)	= 15100 mg/kg (Rabbit)	-
Bisphenol A diglycidyl ether	= 11300 µL/kg (Rat)	= 20000 mg/kg (Rabbit)	-
(2-methoxymethylethoxy)propanol	= 5.35 g/kg (Rat)	= 9500 mg/kg (Rabbit)	-
Melamine	= 3161 mg/kg (Rat)	> 1 g/kg (Rabbit)	-
Naphtha (petroleum), heavy aromatic	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 590 mg/m^3 (Rat) 4 h
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]-	-	> 2000 mg/kg (Rat)	-
Naphthalene	= 1110 mg/kg (Rat)	= 1120 mg/kg (Rabbit)	> 340 mg/m^3 (Rat) 1 h
1,2,4 Trimethylbenzene	= 3280 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m^3 (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitisation Classification based on data available for ingredients. May cause sensitisation by skin contact.

Germ cell mutagenicity No information available.

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Melamine	Carc. 2
Naphthalene	Carc. 2

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

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]-	Repr. 2

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
(2-methoxymethylethoxy)propanol	-	LC50: >10000mg/L (96h, Pimephales promelas)	-	LC50: =1919mg/L (48h, Daphnia magna)
Melamine 108-78-1	EC50: =940mg/L (96h, Scenedesmus pannonicus)	LC50: >3000mg/L (96h, Poecilia reticulata)	-	EC50: >2000mg/L (48h, Daphnia magna)
Naphtha (petroleum), heavy aromatic	-	LC50: =1740mg/L (96h, Lepomis macrochirus) LC50: =19mg/L (96h, Pimephales promelas) LC50: =2.34mg/L (96h, Oncorhynchus mykiss) LC50: =41mg/L (96h, Pimephales promelas) LC50: =45mg/L (96h, Pimephales promelas)	-	EC50: =0.95mg/L (48h, Daphnia magna)
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]-	-	LC50: >100mg/L (96h, Danio rerio)	-	-
Naphthalene	-	LC50: 0.91 - 2.82mg/L (96h, Oncorhynchus mykiss) LC50: 5.74 - 6.44mg/L (96h, Pimephales promelas) LC50: =1.6mg/L (96h, Oncorhynchus mykiss) LC50: =1.99mg/L (96h,	-	EC50: 1.09 - 3.4mg/L (48h, Daphnia magna) EC50: =1.96mg/L (48h, Daphnia magna) LC50: =2.16mg/L (48h, Daphnia magna)

		Pimephales promelas) LC50: =31.0265mg/L (96h, Lepomis macrochirus)		
1,2,4 Trimethylbenzene	-	LC50: 7.19 - 8.28mg/L (96h, Pimephales promelas)	-	EC50: =6.14mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
(2-methoxymethylethoxy)propanol	0.35
Bisphenol A diglycidyl ether	2.33
Melamine	-1.22
Naphtha (petroleum), heavy aromatic	6.5
Naphthalene	3.6
1,2,4 Trimethylbenzene	3.63

12.4. Mobility in soil

Mobility in soil Adsorbs on soil.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Barium sulfate	The substance is not PBT / vPvB PBT assessment does not apply
2-(2-ethoxyethoxy)ethyl acetate	The substance is not PBT / vPvB
Bisphenol A diglycidyl ether	The substance is not PBT / vPvB
(2-methoxymethylethoxy)propanol	The substance is not PBT / vPvB
Melamine	The substance is not PBT / vPvB
Naphtha (petroleum), heavy aromatic	The substance is not PBT / vPvB
Naphthalene	The substance is not PBT / vPvB
1,2,4 Trimethylbenzene	The substance is not PBT / vPvB PBT assessment does not apply

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Do not allow into any sewer, on the ground or into any body of water.

Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
Waste codes / waste designations according to EWC / AVV	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
Marine pollutant	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special Precautions for Users	
Special Provisions	None
Note:	None

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
2-(2-ethoxyethoxy)ethyl acetate 112-15-2	RG 84	-
(2-methoxymethylethoxy)propanol 34590-94-8	RG 84	-
Naphtha (petroleum), heavy aromatic 64742-94-5	RG 84	-
1,2,4 Trimethylbenzene 95-63-6	RG 84	-

Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
Titanium, bis(.eta.5-2,4-cyclopentadien-1-yl)bis[2,6-difluoro-3-(1H-pyrrol-1-yl)phenyl]-	-	-	Fertility Category 1B

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Bisphenol A diglycidyl ether - 1675-54-3	75.	-
Naphthalene - 91-20-3	75.	-

Persistent Organic Pollutants
Not applicable

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Naphtha (petroleum), heavy aromatic - 64742-94-5	-	25000

Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

EU - Water Framework Directive (2000/60/EC)

Chemical name	EU - Water Framework Directive (2000/60/EC)
Naphthalene - 91-20-3	Priority substance

EU - Environmental Quality Standards (2008/105/EC)

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Naphthalene - 91-20-3	Priority substance

International Inventories
Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H224 - Extremely flammable liquid and vapour
H226 - Flammable liquid and vapour
H228 - Flammable solid
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H351 - Suspected of causing cancer
H361 - Suspected of damaging fertility or the unborn child
H361f - Suspected of damaging fertility
H373 - May cause 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

Legend
SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal

Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
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End of Safety Data Sheet