

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Microbond PD955PY 36G S3

Version Revision Date: Date of last issue: 08.01.2024 13.1 17.05.2024 Date of first issue: 09.02.2017

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

1.1 Product identifier

Trade name : Microbond PD955PY 36G S3

Product code : 5176682

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

Use of the Sub-: Industrial use

stance/Mixture ≤ 5 L

Recommended restrictions : For industrial use only.

on use

1.3 Details of the supplier of the safety data sheet

Company : Heraeus Electronics GmbH & Co. KG

Heraeusstrasse 12-14

63450 Hanau

: sds@heraeus.com E-mail address of person

responsible for the SDS (Heraeus Business Solutions GmbH: EHS Chemical Safety)

1.4 Emergency telephone number

Emergency telephone num-+49 6132-84463

ber International Emergency Number

This telephone number is available 24 hours per day, 7 days

per week.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Skin irritation, Category 2 H315: Causes skin irritation. Eye irritation, Category 2 H319: Causes serious eye irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.

Long-term (chronic) aquatic hazard, Cat-

egory 2



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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :





Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face pro-

tection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

ter for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical

advice/ attention.

Hazardous components which must be listed on the label:

Bisphenol-F-epichlorhydrin-epoxy resin Bis-[4-(2,3-epoxipropoxi)phenyl]propane Bisphenol A 2,3-Epoxypropyl phenyl ether

Additional Labelling

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : organic

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Bisphenol-F-epichlorhydrin-epoxy resin	9003-36-5 500-006-8	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 30 - < 50
Bis-[4-(2,3- epoxipropoxi)phenyl]propane	1675-54-3 216-823-5 603-073-00-2	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 10 - < 20
		specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	
Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7 236-675-5 022-006-00-2	Carc. 2; H351	>= 0.1 - < 1
Bisphenol A	80-05-7 201-245-8 604-030-00-0	Eye Dam. 1; H318 Skin Sens. 1; H317 Repr. 1B; H360F STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 ——— M-Factor (Acute aquatic toxicity): 1	>= 0.1 - < 0.25
2,3-Epoxypropyl phenyl ether	122-60-1	M-Factor (Chronic aquatic toxicity): 10 Acute Tox. 4; H302	>= 0.0025 - <
z,o zpokypropy, prioriy, odrior	204-557-2	Acute Tox. 4; H332	0.025



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	603-067-00-X	Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 1B; H350 STOT SE 3; H335 Aquatic Chronic 3; H412	
Substances with a workplace exposure	e limit :		
Talc	14807-96-6 238-877-9		>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.

Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.

Get medical attention.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off with:

Polyethylene glycol 400. Obtain medical attention.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

diately with plenty of water, also under the eyelids, for at least

15 minutes.

Keep eye wide open while rinsing.

Protect unharmed eye.
Call a physician immediately.

If swallowed : Immediately give large quantities of water to drink.

Do NOT induce vomiting.

Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation.



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4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Exposure to decomposition products may be a hazard to

health.

Hazardous combustion prod: :

ucts

Carbon oxides Metal oxides

Silicon oxides

5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

Further information : Use a water spray to cool fully closed containers.

Prevent fire extinguishing water from contaminating surface

water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice and personal protective equip-

ment recommendations.
Ensure adequate ventilation.
Evacuate personnel to safe areas.

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

Do not let product enter drains.

If the product contaminates rivers and lakes or drains inform

respective authorities.



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Sweep up or vacuum up spillage and collect in suitable con-

tainer for disposal.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Wear personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. Smoking, eating and drinking should be prohibited in the ap-

plication area.

Hygiene measures : Keep away from food and drink. Wash hands before breaks

and at the end of workday. Keep working clothes separately. Remove and wash contaminated clothing and gloves, includ-

ing the inside, before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep tightly closed in a dry, cool and well-ventilated place. Keep locked up or in an area accessible only to qualified or

authorised persons.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Talc	14807-96-6	TWA (Respirable dust)	1 mg/m3	GB EH40
Titanium dioxide; [in powder form	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40



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containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]				
		TWA (Respirable dust)	4 mg/m3	GB EH40
Bisphenol A	80-05-7	TWA	2 mg/m3	GB EH40
		TWA (inhalable fraction)	2 mg/m3	2017/164/EU
	Further information: Indicative			
		TWA (inhalable fraction)	2 mg/m3	2004/37/EC
	Further information: Carcinogens or mutagens			

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Bisphenol-F- epichlorhydrin-epoxy resin	Workers	Inhalation	Long-term systemic effects	29.39 mg/m3
	Workers	Skin contact	Long-term systemic effects	104.15 mg/kg bw/day
	Workers	Skin contact	Acute local effects	0.0083 mg/cm2
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m3
	Consumers	Skin contact	Long-term systemic effects	62.5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	6.25 mg/kg bw/day
Bis-[4-(2,3- epox- ipropoxi)phenyl]propa ne	Workers	Inhalation	Long-term systemic effects	12.25 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	12.25 mg/m3
	Workers	Skin contact	Long-term systemic effects	8.33 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	8.33 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	3.571 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	3.571 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.75 mg/kg bw/day



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	Consumers	Ingestion	Acute systemic effects	0.75 mg/kg bw/day
Bisphenol A	Workers	Inhalation	Long-term systemic effects	2 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	2 mg/m3
	Workers	Inhalation	Long-term local effects	2 mg/m3
	Workers	Inhalation	Acute local effects	2 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.031 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	0.031 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	1 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	1 mg/m3
	Consumers	Inhalation	Acute local effects	1 mg/m3
	Consumers	Skin contact	Long-term systemic effects	0.002 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	0.002 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.004 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	0.004 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

	• •	
Substance name	Environmental Compartment	Value
Bisphenol-F-epichlorhydrin-	Fresh water	0.003 mg/l
epoxy resin		
	Marine water	0.0003 mg/l
	Intermittent use/release	0.0254 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.294 mg/kg
	Marine sediment	0.0294 mg/kg
	Soil	0.237 mg/kg
Bis-[4-(2,3-	Fresh water	0.006 mg/l
epoxipropoxi)phenyl]propane		
	Freshwater - intermittent	0.018 mg/l
	Marine water	0.001 mg/l
	Marine water - intermittent	0.002 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	0.996 mg/kg dry



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		weight (d.w.)
	Marine sediment	0.1 mg/kg dry
		weight (d.w.)
	Soil	0.196 mg/kg dry
		weight (d.w.)
	Secondary Poisoning	11 mg/kg food
Bisphenol A	Fresh water	0.018 mg/l
	Marine water	0.018 mg/l
	Intermittent use/release	0.011 mg/l
	Sewage treatment plant	320 mg/l
	Fresh water sediment	1.2 mg/kg
	Marine sediment	0.24 mg/kg
	Soil	3.7 mg/kg
2,3-Epoxypropyl phenyl ether	Fresh water	0.043 mg/l
	Freshwater - intermittent	0.43 mg/l
	Marine water	0.004 mg/l
	Fresh water sediment	0.331 mg/kg dry
		weight (d.w.)
	Marine sediment	0.033 mg/kg dry
		weight (d.w.)
	Soil	0.041 mg/kg dry
		weight (d.w.)

8.2 Exposure controls

Personal protective equipment

Eye/face protection Hand protection

Filter type

Safety glasses with side-shields

Remarks : Before removing gloves clean them with soap and water.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before

use.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : Use respiratory protection unless adequate local exhaust ven-

tilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

: Recommended Filter type:



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Filter type ABEK-P

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste Colour : yellow Odour : mild

Odour Threshold : No data available

pH : substance/mixture is non-soluble (in water)

Melting point/range : No data available

Boiling point/boiling range : > 200 °C (1,013 hPa)

Flash point : $> 100 \, ^{\circ}\text{C} (1,013 \, \text{hPa})$

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : $\leq 1,100 \text{ hPa } (50 \text{ °C})$

Relative vapour density : No data available

Relative density : No data available

Density : 1.299 g/cm3 (23 °C, 1,013 hPa)

Solubility(ies)

Water solubility : insoluble (20 °C, 1.013 hPa)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available



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Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : > 40 mm2/s (23 °C)

> 20.5 mm2/s (40 °C)

Explosive properties : Not applicable

Oxidizing properties : No data available

9.2 Other information

Particle size : Not applicable

Self-ignition : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No data available

No hazardous decomposition products are known.



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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified due to lack of data.

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral tox-

icitv

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6.82 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Bisphenol A:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0.17 mg/l



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Exposure time: 6 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): 2,230 mg/kg

2,3-Epoxypropyl phenyl ether:

Acute oral toxicity : LD50 (Mouse, male): 1,400 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

Remarks: Based on national or regional regulation.

Acute dermal toxicity : LD50 (Rabbit, male): 1,666 mg/kg

Talc:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Remarks: Based on data from similar materials

Skin corrosion/irritation

Causes skin irritation.

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Species : Rabbit Result : Skin irritation

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Result : Skin irritation

Remarks : Based on national or regional regulation.

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

- ·

Species : Rabbit

Result : No skin irritation

Bisphenol A:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation



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2,3-Epoxypropyl phenyl ether:

Result : Skin irritation

Remarks : Based on national or regional regulation.

Talc:

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Species : Rabbit

Result : No eye irritation

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Result : Irritation to eyes, reversing within 21 days Remarks : Based on national or regional regulation.

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic

diameter ≤ 10 µm]:

Species : Rabbit

Result : No eye irritation

Bisphenol A:

Species : Rabbit

Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

Talc:

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.



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Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin contact

Species : Mouse

Method : OECD Test Guideline 429

Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Test Type : Maximisation Test Exposure routes : Skin contact Species : Guinea pig

Method : OECD Test Guideline 406

Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]:

Test Type : Local lymph node assay (LLNA)

Exposure routes : Skin contact Species : Mouse Result : negative

Bisphenol A:

Assessment : Probability or evidence of skin sensitisation in humans

Remarks : Based on national or regional regulation.

2,3-Epoxypropyl phenyl ether:

Test Type : Human repeat insult patch test (HRIPT)

Exposure routes : Skin contact Species : Humans Result : positive

Assessment : Probability or evidence of high skin sensitisation rate in hu-

mans

Talc:

Exposure routes : Skin contact Species : Humans



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Result : negative

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: positive

Test Type: Chromosome aberration test in vitro

Method: OECD Test Guideline 473

Result: positive

Genotoxicity in vivo : Test Type: Mammalian spermatogonial chromosome aberra-

tion test (in vivo) Species: Hamster

Application Route: Ingestion

Result: negative

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: equivocal

Test Type: Chromosome aberration test in vitro

Result: positive

Test Type: DNA damage and repair, unscheduled DNA syn-

thesis in mammalian cells (in vitro)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative



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Genotoxicity in vivo : Test Type: In vivo micronucleus test

Species: Mouse Result: negative

Bisphenol A:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro

Species: Mouse

Application Route: Ingestion

Result: negative

2,3-Epoxypropyl phenyl ether:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: positive

Test Type: In vitro mammalian cell gene mutation test

Result: positive

Test Type: Chromosome aberration test in vitro

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Ingestion

Result: negative

Germ cell mutagenicity- As-

sessment

Positive results from in vitro mammalian mutagenicity assays,

chemical structure activity relationship to known germ cell

mutagens

Talc:

Genotoxicity in vitro : Test Type: DNA damage and repair, unscheduled DNA syn-

thesis in mammalian cells (in vitro)

Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro

Species: Rat

Application Route: Ingestion

Result: negative



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Carcinogenicity

Not classified due to lack of data.

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Species : Mouse
Application Route : Skin contact
Exposure time : 104 weeks
Result : negative

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Species : Rat
Application Route : Ingestion
Exposure time : 24 Months

Method : OECD Test Guideline 453

Result : negative

Species : Mouse
Application Route : Skin contact
Exposure time : 24 Months

Method : OECD Test Guideline 453

Result : negative

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Species : Rat

Application Route : inhalation (dust/mist/fume)

Exposure time : 2 Years

Method : OECD Test Guideline 453

Result : positive

Remarks : The mechanism or mode of action may not be relevant in hu-

mans.

Carcinogenicity - Assess-

Limited evidence of carcinogenicity in inhalation studies with

animals.

Bisphenol A:

ment

Species : Rat
Application Route : Ingestion
Exposure time : 103 weeks
Result : negative



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2,3-Epoxypropyl phenyl ether:

Species : Rat

Application Route : inhalation (vapour)

Exposure time : 2 Years Result : positive

Carcinogenicity - Assess-

ment

: Sufficient evidence of carcinogenicity in animal experiments

Talc:

Species : Mouse

Application Route : inhalation (dust/mist/fume)

Exposure time : 2 Years
Result : negative

Reproductive toxicity

Not classified due to lack of data.

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Remarks: Based on data from similar materials

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rabbit

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rabbit

Application Route: Skin contact

Result: negative



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Bisphenol A:

Effects on fertility : Test Type: Three-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: positive

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on sexual function and fertil-

ity, based on animal experiments.

2,3-Epoxypropyl phenyl ether:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: negative

Talc:

Effects on foetal develop-

ment

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative

STOT - single exposure

Not classified due to lack of data.

Components:

Bisphenol A:

Assessment : May cause respiratory irritation.

2,3-Epoxypropyl phenyl ether:

Assessment : May cause respiratory irritation.



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STOT - repeated exposure

Not classified due to lack of data.

Components:

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Assessment : No significant health effects observed in animals at concentra-

tions of 200 mg/kg bw or less.

Repeated dose toxicity

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Species : Rat
NOAEL : 250 mg/kg
Application Route : Ingestion
Exposure time : 13 Weeks

Method : OECD Test Guideline 408

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Species : Rat

NOAEL : 50 mg/kg

LOAEL : 250 mg/kg

Application Route : Ingestion

Exposure time : 90 Days

Method : OECD Test Guideline 408

Species : Mouse

NOAEL : >= 100 mg/kg
Application Route : Skin contact
Exposure time : 13 Weeks

Method : OECD Test Guideline 411

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm]:

Species : Rat

NOAEL : 24,000 mg/kg Application Route : Ingestion Exposure time : 28 Days

Species : Rat NOAEL : 10 mg/m3

Application Route : inhalation (dust/mist/fume)

Exposure time : 2 yr



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Bisphenol A:

Species Rat

LOAEL 120 mg/kg Application Route Ingestion Exposure time 2 yr

Aspiration toxicity

Not classified due to lack of data.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 62.5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

Exposure time: 72 h

Toxicity to microorganisms IC50 : > 100 mg/l

Exposure time: 3 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

NOEC: 0.3 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) ic toxicity)

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

LL50 (Oncorhynchus mykiss (rainbow trout)): > 1 - 10 mg/l Toxicity to fish

Exposure time: 96 h

Test substance: Water Accommodated Fraction

Method: OECD Test Guideline 203

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates

EL50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Exposure time: 48 h

Test substance: Water Accommodated Fraction



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Remarks: Based on data from similar materials

Toxicity to algae/aquatic

plants

EL50 (Scenedesmus capricornutum (fresh water algae)): > 10

- 100 mg/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

NOELR (Scenedesmus capricornutum (fresh water algae)): >

1 ma/l

Exposure time: 72 h

Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials

IC50 : > 100 mg/lToxicity to microorganisms

Exposure time: 3 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: > 0.1 - 1 mg/lExposure time: 21 d

Species: Daphnia magna (Water flea)

Remarks: Based on data from similar materials

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aguatic

plants

: EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h

EC50 : > 1,000 mg/lToxicity to microorganisms

Exposure time: 3 h

Method: OECD Test Guideline 209

Bisphenol A:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 4.6 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50: 0.885 mg/l

Exposure time: 48 h

Method: ISO 14669 and PARCOM method



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Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 2.73

mg/l

Exposure time: 96 h

EC10 (Pseudokirchneriella subcapitata (green algae)): 1.36

mg/

1

Exposure time: 96 h

M-Factor (Acute aquatic tox-

icity)

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 320 mg/l

Exposure time: 18 h

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.000174 mg/l Exposure time: 150 d

Species: Danio rerio (zebra fish)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0.0194 mg/l Exposure time: 28 d

M Factor (Chronic

M-Factor (Chronic aquatic

toxicity)

10

2,3-Epoxypropyl phenyl ether:

Toxicity to fish : LC50 (Carassius auratus (goldfish)): 43 mg/l

Exposure time: 96 h

Talc:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100,000 mg/l

Exposure time: 24 h

12.2 Persistence and degradability

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: Regulation (EC) No. 440/2008, Annex, C.4-E

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 5 %



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Exposure time: 28 d

Method: OECD Test Guideline 301F

Bisphenol A:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 89 % Exposure time: 28 d

Method: OECD Test Guideline 301F

2,3-Epoxypropyl phenyl ether:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 51 % Exposure time: 28 d

12.3 Bioaccumulative potential

Components:

Bisphenol-F-epichlorhydrin-epoxy resin:

Partition coefficient: n- : log Pow: 3.6

octanol/water

Bis-[4-(2,3-epoxipropoxi)phenyl]propane:

Partition coefficient: n- : log Pow: 3.5

octanol/water

Bisphenol A:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 5.1 - 67

Partition coefficient: n- : log Pow: 3.4

octanol/water

2,3-Epoxypropyl phenyl ether:

Partition coefficient: n- : log Pow: 1.61

octanol/water Remarks: Calculation

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of



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0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting poten-

tial

This substance/mixture contains components considered to have endocrine disrupting properties for environment accord-

ing to UK REACH Article 57(f).

Components:

Bisphenol A:

Endocrine disrupting poten-

tial

The substance is considered to have endocrine disrupting properties according to UK REACH Article 57(f) for environ-

ment

Global warming potential

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

Components:

Decamethylcyclopentasiloxane:

20-year global warming potential: 1.04 100-year global warming potential: 0.289 500-year global warming potential: 0.082

Atmospheric lifetime: 0.016 yr Radiative efficiency: 0.098 Wm2ppb

Further information: Miscellaneous compounds

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : If recycling is not practicable, dispose of in compliance with

local regulations.

Contaminated packaging : Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADN : Not regulated as a dangerous good



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ADR : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA : Not regulated as a dangerous good

14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA : Not regulated as a dangerous good

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA (Passenger) : Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : When carried in single packaging or inner packaging of 5kg/

5L or less, this material is not subject to the transport regula-

tions

the single packaging or inner packaging must not be UN-approved but must be a good quality packaging and suitable

for the medium.



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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3

Bisphenol A

Not applicable

Not applicable

Not applicable

Not applicable

Bisphenol A (Number on list 66, 30)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

UK REACH List of substances subject to authorisation

(Annex XIV)

GB Export and import of hazardous chemicals - Prior

Informed Consent (PIC) Regulation

Storage class (TRGS 510) : 10: Combustible liquids

Control of Major Accident Hazards Regulations E2 ENVIRONMENTAL HAZARDS

2015 (COMAH)

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation.



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H341 : Suspected of causing genetic defects.

H350 : May cause cancer.

H351 : Suspected of causing cancer if inhaled.

H360F : May damage fertility. 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.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard Aquatic Chronic : Long-term (chronic) aquatic hazard

Carc. : Carcinogenicity
Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Muta. : Germ cell mutagenicity Repr. : Reproductive toxicity

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2004/37/EC / TWA : Long term exposure limit 2017/164/EU / TWA : Limit Value - eight hours

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-



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tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Skin Irrit. 2 H315 Calculation method
Eye Irrit. 2 H319 Calculation method
Skin Sens. 1 H317 Calculation method
Aquatic Chronic 2 H411 Calculation method

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