

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

Product Name	Black Polyurethane Resin UR5547, Part A
Product Code(s)	UR5547A, EUR5547K5K, EUR5547K10K, ZE
Safety data sheet number	01621
Unique Formula Identifier (UFI)	55G4-S0J0-C002-AY8H
Pure substance/mixture	Mixture

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

Recommended use	Resin
Uses advised against	No specific uses advised against are identified

1.3. Details of the supplier of the safety data sheet

<u>Manufacturer</u>	<u>Supplier</u>
ELECTROLUBE MacDermid Alpha Electronics Solutions ASHBY PARK, COALFIELD WAY, ASHBY DE LA ZOUCH, LEICESTERSHIRE LE65 1JR UNITED KINGDOM +44 (0)1530 419600 +44 (0)1530 416640 info@electrolube.com	HK WENTWORTH LIMITED 32 RUE DE TOURNENFILS 91540 MENNECY FRANCE +33 (0) 1 82 88 47 94 info@electrolube.com

For further information, please contact

E-mail address	info@electrolube.com
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1.4. Emergency telephone number

Emergency Telephone	POISON INFORMATION CENTRE (Beaumont Hospital, Republic of Ireland only) +353 (0)1 809 2166 (08:00 - 22:00)
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Emergency Telephone - IN CASE OF EMERGENCY CALL: +44 1865 407333 (24hr, Provided by Carechem 24)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Carcinogenicity	Category 2 - (H351)
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2.2. Label elements

Contains Antimony trioxide



Signal word

Warning

Hazard statements

H351 - Suspected of causing cancer

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use.

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P308 + P313 - IF exposed or concerned: Get medical advice/attention.

P501 - Dispose of contents/ container to an approved waste disposal plant.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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 (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Aluminium Hydroxide 21645-51-2	30-60	01-2119529246-39-00 00	244-492-7	[C]	-	-	-
Propane-1,2-diol, propoxylated 25322-69-4	10-30	01-2119457556-29-00 00	500-039-8	Acute Tox. 4 (H302)	-	-	-

Kaolin 1332-58-7	5-10	No data available	310-194-1	[C]	-	-	-
Zeolites 1318-02-1	1-5	No data available	215-283-8	[C]	-	-	-
Antimony trioxide 1309-64-4	1-5	No data available	215-175-0	Carc. 2 (H351)	-	-	-
2,2' -oxybisethanol 111-46-6	0.1-1	No data available	203-872-2	Acute Tox. 4 (H302)	-	-	-
Carbon Black 1333-86-4	0.1-1	01-2119384822-32-00 00	215-609-9	[C]	-	-	-
Dimethyl Siloxane 63148-62-9	<0.1	No data available	-	[C]	-	-	-
Lead monoxide 1317-36-8	<0.1	No data available	215-267-0	Acute Tox. 4 (H332) Aquatic Chronic 1 (H410) STOT RE 2 (H373) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Repr. 1A (H360Fd)	Repr. 2 :: C>=2.5% STOT RE 2 :: C>=0.5%	-	-

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

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 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Aluminium Hydroxide 21645-51-2	5000	No data available	No data available	No data available	No data available
Propane-1,2-diol, propoxylated 25322-69-4	3750	3000	No data available	No data available	No data available
Kaolin 1332-58-7	5000	5000	No data available	No data available	No data available
Zeolites 1318-02-1	5110	2000	No data available	No data available	No data available
Antimony trioxide 1309-64-4	34600	2000	5.2	No data available	No data available
2,2' -oxybisethanol 111-46-6	12565	11890	4.6	No data available	No data available
Carbon Black 1333-86-4	15400	No data available	0.0046	No data available	No data available
Dimethyl Siloxane 63148-62-9	24000	No data available	No data available	No data available	No data available
Lead monoxide 1317-36-8	10000	2000	No data available	No data available	No data available

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth.

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

Symptoms	No information available.
Effects of Exposure	None.

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

Note to doctors	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	No information available.
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5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
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 See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510) LGK 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Aluminium Hydroxide 21645-51-2	-	TWA: 5 mg/m ³ STEL 10 mg/m ³	-	TWA: 10.0 mg/m ³ TWA: 1.5 mg/m ³	-
Kaolin 1332-58-7	-	-	TWA: 2 mg/m ³	TWA: 3.0 mg/m ³ TWA: 6.0 mg/m ³	TWA: 2 mg/m ³
Antimony trioxide 1309-64-4	-	TWA: 0.5 mg/m ³ STEL 1.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³
2,2' -oxybisethanol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m ³ STEL 40 ppm STEL 176 mg/m ³	-	TWA: 10 mg/m ³	TWA: 23 ppm TWA: 101 mg/m ³
Carbon Black	-	-	TWA: 3 mg/m ³	-	TWA: 3.5 mg/m ³

1333-86-4					STEL: 7 mg/m ³
Lead monoxide 1317-36-8	TWA: 0.15 mg/m ³	TWA: 0.1 mg/m ³ STEL 0.4 mg/m ³	TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Aluminium Hydroxide 21645-51-2	-	TWA: 10.0 mg/m ³	-	-	-
Kaolin 1332-58-7	-	-	TWA: 2 mg/m ³ STEL: 4 mg/m ³	-	TWA: 2 mg/m ³
Antimony trioxide 1309-64-4	-	TWA: 0.1 mg/m ³ Ceiling: 0.2 mg/m ³	TWA: 0.5 mg/m ³ STEL: 1 mg/m ³ except Stibine	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³
2,2' -oxybisethanol 111-46-6	-	-	TWA: 2.5 ppm TWA: 11 mg/m ³ STEL: 5 ppm STEL: 22 mg/m ³	TWA: 10 ppm TWA: 45 mg/m ³ STEL: 20 ppm STEL: 90 mg/m ³ A*	-
Carbon Black 1333-86-4	-	TWA: 2.0 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
Lead monoxide 1317-36-8	TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³ Ceiling: 0.2 mg/m ³	TWA: 0.05 mg/m ³ STEL: 0.1 mg/m ³	TWA: 0.1 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Aluminium Hydroxide 21645-51-2	-	TWA: 1.25 mg/m ³ TWA: 10 mg/m ³	TWA: 4 mg/m ³ TWA: 1.5 mg/m ³	-	-
Kaolin 1332-58-7	TWA: 10 mg/m ³	-	-	-	-
Antimony trioxide 1309-64-4	TWA: 0.5 mg/m ³	TWA: 0.006 mg/m ³	-	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³
2,2' -oxybisethanol 111-46-6	-	TWA: 10 ppm TWA: 44 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ Peak: 40 ppm Peak: 176 mg/m ³	-	-
Carbon Black 1333-86-4	TWA: 3.5 mg/m ³	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 3 mg/m ³
Lead monoxide 1317-36-8	TWA: 0.1 mg/m ³	-	TWA: 0.004 mg/m ³ Peak: 0.032 mg/m ³	TWA: 0.15 mg/m ³	TWA: 0.1 mg/m ³ TWA: 0.05 mg/m ³
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Aluminium Hydroxide 21645-51-2	TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³	-	TWA: 1 mg/m ³	TWA: 6 mg/m ³	TWA: 6 mg/m ³
Kaolin 1332-58-7	TWA: 2 mg/m ³	-	TWA: 2 mg/m ³	-	-
Zeolites 1318-02-1	-	-	-	TWA: 2 mg/m ³	-
Antimony trioxide 1309-64-4	TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³	-	TWA: 0.5 mg/m ³	TWA: 1 mg/m ³	TWA: 0.5 mg/m ³
2,2' -oxybisethanol 111-46-6	TWA: 23 ppm TWA: 100 mg/m ³ STEL: 69 ppm STEL: 300 mg/m ³	-	-	TWA: 10 mg/m ³	STEL: 20 ppm STEL: 90 mg/m ³ TWA: 10 ppm TWA: 45 mg/m ³ O*
Carbon Black 1333-86-4	TWA: 3 mg/m ³ STEL: 15 mg/m ³	-	TWA: 3 mg/m ³	-	-
Lead monoxide 1317-36-8	TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³	TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ STEL: 0.1 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.07 mg/m ³
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Aluminium Hydroxide	-	-	-	-	TWA: 2.5 mg/m ³

21645-51-2					TWA: 1.2 mg/m ³
Kaolin 1332-58-7	-	-	-	-	TWA: 10.0 mg/m ³
Antimony trioxide 1309-64-4	-	-	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³	TWA: 0.5 mg/m ³
2,2' -oxybisethanol 111-46-6	-	-	-	-	TWA: 10 mg/m ³
Carbon Black 1333-86-4	-	-	-	TWA: 3.5 mg/m ³ STEL: 7 mg/m ³	TWA: 4 mg/m ³
Lead monoxide 1317-36-8	TWA: 0.15 mg/m ³	-	TWA: 0.15 mg/m ³	TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³	TWA: 0.05 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Aluminium Hydroxide 21645-51-2	TWA: 1 mg/m ³	-	TWA: 1.5 mg/m ³ TWA: 4 mg/m ³	-	TWA: 1 mg/m ³
Kaolin 1332-58-7	TWA: 2 mg/m ³	-	TWA: 10 mg/m ³	-	TWA: 2 mg/m ³
Antimony trioxide 1309-64-4	TWA: 0.5 mg/m ³	-	TWA: 0.5 mg/m ³	-	TWA: 0.5 mg/m ³
2,2' -oxybisethanol 111-46-6	-	TWA: 115 ppm TWA: 500 mg/m ³ STEL: 184 ppm STEL: 800 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ Ceiling: 90 mg/m ³	TWA: 10 ppm TWA: 44 mg/m ³ STEL: 40 ppm STEL: 176 mg/m ³	-
Carbon Black 1333-86-4	TWA: 3 mg/m ³	-	TWA: 2 mg/m ³ TWA: 10 mg/m ³	-	TWA: 3.5 mg/m ³
Dimethyl Siloxane 63148-62-9	-	TWA: 200 mg/m ³ STEL: 300 mg/m ³ P*	-	-	-
Lead monoxide 1317-36-8	TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³	TWA: 0.15 mg/m ³ TWA: 0.5 mg/m ³	TWA: 0.1 mg/m ³ STEL: 0.4 mg/m ³	TWA: 0.15 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom
Aluminium Hydroxide 21645-51-2	-		TWA: 3 mg/m ³ TWA: 10 mg/m ³		TWA: 10 mg/m ³ TWA: 4 mg/m ³ STEL: 30 mg/m ³ STEL: 12 mg/m ³
Kaolin 1332-58-7	-		TWA: 3 mg/m ³		TWA: 2 mg/m ³ STEL: 6 mg/m ³
Antimony trioxide 1309-64-4	NGV: 0.25 mg/m ³		TWA: 0.1 mg/m ³		TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³
2,2' -oxybisethanol 111-46-6	Vägledande KGV: 20 ppm Vägledande KGV: 90 mg/m ³ NGV: 10 ppm NGV: 45 mg/m ³ H*		TWA: 10 ppm TWA: 44 mg/m ³ STEL: 40 ppm STEL: 176 mg/m ³		TWA: 23 ppm TWA: 101 mg/m ³ STEL: 69 ppm STEL: 303 mg/m ³
Carbon Black 1333-86-4	NGV: 3 mg/m ³		-		TWA: 3.5 mg/m ³ STEL: 7 mg/m ³
Lead monoxide 1317-36-8	NGV: 0.1 mg/m ³ NGV: 0.05 mg/m ³		TWA: 0.1 mg/m ³ STEL: 0.8 mg/m ³		TWA: 0.15 mg/m ³ STEL: 0.45 mg/m ³

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Aluminium Hydroxide 21645-51-2	-	60 µg/g Creatinine (urine - Aluminium after end of work day, at the end of a work week/end of the shift)	-	-	-

		(-)			
Lead monoxide 1317-36-8	-	120 µg/100 mL RBC Erythrocyte protoporphyrin (blood - Ethylenediaminetetr aacetic acid not provided) 30 µg/100 mL blood Lead (blood - Ethylenediaminetetr aacetic acid not provided) 3.8 million/µL Erythrocytes (blood - Ethylenediaminetetr aacetic acid not provided) 12 g/dL Hemoglobin (blood - Ethylenediaminetetr aacetic acid not provided) 35 % Hematocrit (blood - Ethylenediaminetetr aacetic acid not provided) 10 mg/L (urine - .delta.-Aminolevulini c acid not provided) 3.2 million/µL Erythrocytes (blood - Ethylenediaminetetr aacetic acid not provided) 10 g/dL Hemoglobin (blood - Ethylenediaminetetr aacetic acid not provided) 30 % Hematocrit (blood - Ethylenediaminetetr aacetic acid not provided) 6 mg/L (urine - .delta.-Aminolevulini c acid not provided)	-	400 µg Pb/L - blood (Lead) - not critical 300 µg Pb/L - blood (Lead) - not critical 15 U/LE - blood (.delta.-Aminolevulin ic acid dehydratase) - not critical 1.50 mg/LE - blood (Protoporphyrin in erythrocytes) - after exposure during 2-3 months (sample protected from light)	-
Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
Antimony trioxide 1309-64-4	-	-	-	0.2 µg/L - BAR (end of exposure or end of shift) urine 0.2 µg/L - BAR (for long-term exposures: at the end of the shift after several shifts) urine	-
Lead monoxide	-	-	400 µg/L - blood	150 µg/L - BLW (not	-

1317-36-8			(Lead) - 300 µg/L - blood (Lead) - 200 µg/L - blood (Lead) - 100 µg/L - blood (Lead) -	fixed) blood 30 µg/L - BAR (not fixed) blood 40 µg/L - BAR (not fixed) blood	
Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII	
Lead monoxide 1317-36-8	300 µg/L (blood - Lead) 200 µg/L (blood - Lead) 1.5 µmol/L (blood - Lead) 1 µmol/L (blood - Lead) 100 µmol/mol Haem (blood - Zinc protoporphyrin prequalification measured only for exposures >=3 months) 80 µmol/mol Haem (blood - Zinc protoporphyrin prequalification measured only for exposures >=3 months)	-	-	30 µg/100 mL - blood (Lead) - not critical	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
Aluminium Hydroxide 21645-51-2	-	-	50 µg/g creatinine (urine - Aluminum after several shifts (for long-term exposures)) 0.21 µmol/mmol creatinine (urine - Aluminum after several shifts (for long-term exposures))	-	

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Aluminium Hydroxide 21645-51-2	-	-	10.76 mg/m³ [4] [6] 10.76 mg/m³ [5] [6]
Antimony trioxide 1309-64-4	-	67 mg/kg bw/day [4] [6]	0.315 mg/m³ [5] [6]
2,2' -oxybisethanol 111-46-6	-	43 mg/kg bw/day [4] [6]	44 mg/m³ [4] [6] 60 mg/m³ [5] [6]
Carbon Black 1333-86-4	-	-	1 mg/m³ [4] [6] 0.5 mg/m³ [5] [6]
Triethyl orthoformate 122-51-0	-	1.22 mg/kg bw/day [4] [6]	1.07 mg/m³ [4] [6]

Notes

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

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
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Chemical name	Oral	Dermal	Inhalation
Aluminium Hydroxide 21645-51-2	4.74 mg/kg bw/day [4] [6]	-	-
Antimony trioxide 1309-64-4	33.5 mg/kg bw/day [4] [6]	-	0.095 mg/m ³ [5] [6]
2,2' -oxybisethanol 111-46-6	-	-	12 mg/m ³ [4] [6] 12 mg/m ³ [5] [6]
Carbon Black 1333-86-4	-	-	0.06 mg/m ³ [4] [6]
Triethyl orthoformate 122-51-0	0.61 mg/kg bw/day [4] [6]	-	0.264 mg/m ³ [4] [6]

Notes

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

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Antimony trioxide 1309-64-4	0.135 mg/L	-	0.0135 mg/L	-	-
2,2' -oxybisethanol 111-46-6	10 mg/L	10 mg/L	1 mg/L	-	-
Triethyl orthoformate 122-51-0	0.17451 mg/L	1.7451 mg/L	0.017451 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Antimony trioxide 1309-64-4	13.4 mg/kg sediment dw	2.68 mg/kg sediment dw	3.05 mg/L	44.3 mg/kg soil dw	-
2,2' -oxybisethanol 111-46-6	20.9 mg/kg sediment dw	2.09 mg/kg sediment dw	199.5 mg/L	1.53 mg/kg soil dw	-
Triethyl orthoformate 122-51-0	1.52 mg/kg sediment dw	0.152 mg/kg sediment dw	0.14 g/L	2.94 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection No special protective equipment required.

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.

Skin and body protection Wear suitable protective clothing. (EN ISO 6529).

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 Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Colour	black
Odour	No information available.
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	No data available	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	24000 mPa s @ 23°C	
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	No data available	None known
Bulk density	1.69 kg/l	
Liquid Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidizing.

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

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 None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

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.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

Based on available data, the classification criteria are not met

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

ATEmix (oral) 2,416.86 mg/kg

ATEmix (dermal) 3,020.40 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
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Aluminium Hydroxide	> 5000 mg/kg (Rat)	-	-
Propane-1,2-diol, propoxylated	= 3750 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Kaolin	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Zeolites	> 5110 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 3.35 mg/L (Rat) 4 h
Antimony trioxide	> 34600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
2,2' -oxybisethanol	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	> 4600 mg/m ³ (Rat) 4 h
Carbon Black	> 15400 mg/kg (Rat)	-	> 4.6 mg/m ³ (Rat) 4 h
Dimethyl Siloxane	> 24 g/kg (Rat)	-	-
Lead monoxide	> 10000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.05 mg/L (Rat) 4 h

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

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

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

Chemical name	European Union
Antimony trioxide	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
Lead monoxide	Repr. 1A

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.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Zeolites	EC50: =18mg/L (96h, <i>Desmodesmus subspicatus</i>)	LC50: =1800mg/L (96h, <i>Brachydanio rerio</i>) LC50: 3200 - 5600mg/L (96h, <i>Oryzias latipes</i>) LC50: 1800 - 3200mg/L (96h, <i>Poecilia reticulata</i>)	-	EC50: 1000 - 1800mg/L (48h, <i>Daphnia magna</i>)
Antimony trioxide	EC50: 0.63 - 0.8mg/L (72h, <i>Pseudokirchneriella subcapitata</i>) EC50: 0.65 - 0.81mg/L (96h, <i>Pseudokirchneriella subcapitata</i>)	LC50: >80mg/L (96h, <i>Pimephales promelas</i>) LC50: >1000mg/L (96h, <i>Brachydanio rerio</i>)	-	EC50: >1000mg/L (48h, <i>Daphnia magna</i>) EC50: 361.5 - 496.0mg/L (48h, <i>Daphnia magna</i>)
2,2' -oxybisethanol	-	LC50: =75200mg/L (96h, <i>Pimephales promelas</i>)	-	EC50: =84000mg/L (48h, <i>Daphnia magna</i>)
Lead monoxide	-	LC50: =0.298mg/L (96h, <i>Pimephales promelas</i>)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Propane-1,2-diol, propoxylated	1.13
2,2' -oxybisethanol	-1.98

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Aluminium Hydroxide	The substance is not PBT / vPvB
Propane-1,2-diol, propoxylated	The substance is not PBT / vPvB
Zeolites	The substance is not PBT / vPvB
Antimony trioxide	The substance is not PBT / vPvB
2,2' -oxybisethanol	The substance is not PBT / vPvB
Carbon Black	The substance is not PBT / vPvB
Lead monoxide	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

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 user
 Special Provisions None

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
 14.6 Special precautions for user
 Special Provisions None
 14.7 Maritime transport in bulk according to IMO instruments No information available

RID

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 user	
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 user	
Special Provisions	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
Antimony trioxide - 1309-64-4	RG 73
2,2' -oxybisethanol - 111-46-6	RG 84
Carbon Black - 1333-86-4	RG 16, RG 16bis
Lead monoxide - 1317-36-8	RG 1

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

Netherlands

Carcinogenic, mutagenic and reproductive toxic effects

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Mutagens	Netherlands - List of Reproductive Toxins
Lead monoxide	-	-	Fertility Category 2; all compounds Development Category 1A; all compounds

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
Antimony trioxide - 1309-64-4	75.	-
2,2' -oxybisethanol - 111-46-6	75.	-

Carbon Black - 1333-86-4	75.	-
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Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Carbon Black - 1333-86-4	Plant protection agent

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report

Chemical safety assessments for substances in this mixture were not carried out

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

H302	- Harmful if swallowed
H332	- Harmful if inhaled
H351	- Suspected of causing cancer
H360FD	- May damage fertility. May damage the unborn child
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

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 Sk* Skin designation
+ Sensitisers

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
Skin 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

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
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)
National Institute of Technology and Evaluation (NITE)
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 Library of Medicine's PubMed database (NLM PUBMED)
U.S. 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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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Disclaimer

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End of Safety Data Sheet