

SAFETY DATA SHEET

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

HUNTSMAN

Enriching lives through innovation

URALANE® 5774 C US

Version 2.0 Revision Date: 22.11.2022 SDS Number: 400001010057 Date of last issue: 17.03.2017
Date of first issue: 18.01.2017

Print Date 13.09.2023

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

1.1 Product identifier

Trade name : URALANE® 5774 C US

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

Use of the Substance/Mixture : Hardener

Recommended restrictions on use : For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company : Huntsman Advanced Materials (Europe)BVBA
Address : Everslaan 45
3078 Everberg
Belgium

Telephone : +41 61 299 20 41
Telefax : +41 61 299 20 40

E-mail address of person responsible for the SDS : Global_Product_EHS_AdMat@huntsman.com

1.4 Emergency telephone number

Emergency telephone number : EUROPE: +32 35 75 1234
France ORFILA: +33(0)145425959
ASIA: +65 6336-6011
China: +86 20 39377888
+86 532 83889090
India: + 91 22 42 87 5333
Australia: 1800 786 152
New Zealand: 0800 767 437
USA: +1 800-424-9300

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)

Acute toxicity, Category 4 H302: Harmful if swallowed.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.
Germ cell mutagenicity, Category 2 H341: Suspected of causing genetic defects.
Carcinogenicity, Category 2 H351: Suspected of causing cancer.

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Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity - single exposure, Category 2	H371: May cause damage to organs.
Specific target organ toxicity - repeated exposure, Category 1	H372: Causes damage to organs through prolonged or repeated exposure.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

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	:	Danger
Hazard statements	:	H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. H371 May cause damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P260 Do not breathe mist or vapours. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P391 Collect spillage.

Hazardous components which must be listed on the label:

4,4'-methylenebis(2-ethylaniline)
tris(methylphenyl) phosphate
Formaldehyde, polymer with 2-ethylbenzenamine
3-aminopropyltriethoxysilane

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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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
4,4'-methylenebis(2-ethylaniline)	19900-65-3 243-420-1 612-141-00-0	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1A; H317 Muta. 2; H341 Carc. 2; H351 STOT SE 2; H371 (Liver) STOT RE 1; H372 (Liver) STOT RE 2; H373 (Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10 Acute toxicity estimate Acute oral toxicity: 444 mg/kg	>= 10 - < 20
tris(methylphenyl) phosphate	1330-78-5 215-548-8	Repr. 2; H361 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 10 - < 20
Formaldehyde, polymer with 2-ethylbenzenamine	69178-41-2 Polymer	Acute Tox. 4; H302	>= 1 - < 10
4,4'-methylenebis[N-sec-butylaniline]	5285-60-9 226-122-6	Acute Tox. 4; H302 Acute toxicity estimate	>= 1 - < 10

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		Acute oral toxicity: 1,380 mg/kg	
1,1',1'',1'''- ethylenedinitrilotetrapropan-2-ol	102-60-3 203-041-4	Eye Irrit. 2; H319	$\geq 1 - < 10$
3-aminopropyltriethoxysilane	919-30-2 213-048-4 612-108-00-0	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 Acute toxicity estimate Acute oral toxicity: 1,491 mg/kg	$\geq 0.1 - < 1$
melamine	108-78-1 203-615-4	Repr. 2; H361	$\geq 0.1 - < 1$

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Treat symptomatically.
Get medical attention if symptoms occur.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Avoid inhalation, ingestion and contact with skin and eyes.
No action shall be taken involving any personal risk or without suitable training.
It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- In case of skin contact : If on skin, rinse well with water.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

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4.2 Most important symptoms and effects, both acute and delayed

None known.

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 : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : Exercise caution when using a high volume water jet as it may scatter and spread fire

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform

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respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal considerations see section 13., See Section 1 for emergency contact information., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Keep in properly labelled containers.

Advice on common storage : For incompatible materials please refer to Section 10 of this SDS.

Further information on storage stability : Stable under normal conditions.

Recommended storage temperature : 2 - 40 °C

7.3 Specific end use(s)

Specific use(s) : No data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Workers	Inhalation	Long-term systemic effects	29.4 mg/m ³
	Workers	Dermal	Long-term systemic effects	4.2 mg/kg
	Consumers	Inhalation	Long-term systemic effects	8.7 mg/m ³
	Consumers	Dermal	Long-term systemic effects	2.5 mg/kg
4,4'-methylenebis(2-ethylaniline)	Consumers	Oral	Long-term systemic effects	2.5 mg/kg
	Workers	Inhalation	Long-term systemic effects	0.0148 mg/m ³
	Workers	Dermal	Long-term systemic effects	0.0042 mg/kg
	3-aminopropyltriethoxysilane	Workers	Inhalation	Long-term systemic effects
Workers		Inhalation	Systemic effects, Short-term exposure	59 mg/m ³
Workers		Dermal	Long-term systemic effects	8.3 mg/kg bw/day
Workers		Dermal	Systemic effects, Short-term exposure	8.3 mg/kg bw/day
Consumers		Inhalation	Long-term systemic effects	17.4 mg/m ³
Consumers		Inhalation	Systemic effects, Short-term exposure	17.4 mg/m ³
melamine	Consumers	Dermal	Long-term systemic effects	5 mg/kg bw/day
	Consumers	Dermal	Systemic effects, Short-term exposure	5 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	8.3 mg/m ³
	Workers	Inhalation	Acute systemic effects	82.3 mg/m ³
melamine	Workers	Dermal	Long-term systemic effects	11.8 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	117 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1.5 mg/m ³

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	Consumers	Dermal	Long-term systemic effects	4.2 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.42 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value	
1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	Fresh water	0.085 mg/l	
	Remarks:Assessment Factors		
	Marine water	0.0085 mg/l	
	Remarks:Assessment Factors		
	Freshwater - intermittent	1.51 mg/l	
	Remarks:Assessment Factors		
	Fresh water sediment	0.193 mg/kg	
	Remarks:Equilibrium method		
	Marine sediment	0.0193 mg/kg	
	Remarks:Equilibrium method		
Siloxanes and silicones, di-Me, reaction products with silica	Fresh water sediment	> 100 mg/kg	
	Remarks:Assessment Factors		
	Soil	23 mg/kg	
	Remarks:Assessment Factors		
3-aminopropyltriethoxysilane	Fresh water	0.33 mg/l	
	Remarks:Assessment Factors		
	Marine water	0.033 mg/l	
	Remarks:Assessment Factors		
	Sewage treatment plant	13 mg/l	
	Remarks:Assessment Factors		
	Fresh water sediment	1.2 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method		
	Marine sediment	0.12 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method		
Soil	Soil	0.05 mg/kg dry weight (d.w.)	
	Remarks:Equilibrium method		
	melamine	Fresh water	0.51 mg/l
		Remarks:Assessment Factors	
Freshwater - intermittent		2 mg/l	
Remarks:Assessment Factors			
Marine water		0.051 mg/l	
Remarks:Assessment Factors			
Sewage treatment plant		200 mg/l	
Remarks:Assessment Factors			
Fresh water sediment		2.524	
Remarks:Equilibrium method			
Marine sediment	0.252		
Remarks:Equilibrium method			
Soil	0.206 mg/kg		

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Remarks: Equilibrium method

8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Hand protection
- Material : butyl-rubber
- Break through time : > 8 h
- Material : Nitrile rubber
- Break through time : 10 - 480 min
- Material : Ethyl Vinyl Alcohol Laminate (EVAL)
- Break through time : > 8 h
- Remarks : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Equipment should conform to EN 14387
- Filter type : Combined ammonia/amines and organic vapour type (AK)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : beige
- Odour : amine-like
- Odour Threshold : No data is available on the product itself.
- pH : substance/mixture is non-soluble (in water)
- Melting point/freezing point : No data available
- Boiling point/boiling range : No data available
- Flash point : 100 °C

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Method: estimated, closed cup

Flammability (solid, gas) : No data is available on the product itself.

Upper explosion limit / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : < 1 hPa (20 °C)

Relative vapour density : No data is available on the product itself.

Relative density : 1.15 - 1.4 (25 °C)

Density : 1.15 - 1.4 g/cm³ (25 °C)

Solubility(ies)
Water solubility : insoluble (20 °C)

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Decomposition temperature : > 200 °C

Viscosity
Viscosity, dynamic : 60,000 mPa.s (25 °C)

9.2 Other information

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Burning rate : No data is available on the product itself.

Evaporation rate : No data is available on the product itself.

Molecular weight : No data available

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.

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10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong acids
Strong bases
Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide
carbon monoxide
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 1,827 mg/kg
Method: Calculation method

Acute inhalation toxicity : Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:

4,4'-methylenebis(2-ethylaniline):

Acute oral toxicity : LD50 (Rat): 444 mg/kg
Method: OECD Test Guideline 401

Acute toxicity estimate: 444 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.85 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat, male and female): 2,080 mg/kg
Method: OECD Test Guideline 402

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Assessment: The component/mixture is minimally toxic after single contact with skin.

tris(methylphenyl) phosphate:

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 11.1 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 3,700 mg/kg
Assessment: The component/mixture is minimally toxic after single contact with skin.

Formaldehyde, polymer with 2-ethylbenzenamine:

Acute oral toxicity : LD50 (Rat): 1,000 mg/kg

4,4'-methylenebis[N-sec-butylaniline]:

Acute oral toxicity : LD50 (Rat): 1,380 mg/kg

Acute toxicity estimate: 1,380 mg/kg
Method: Calculation method

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:

Acute oral toxicity : LD50 (Rat, male and female): 2,890 mg/kg
Method: OECD Test Guideline 401

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

3-aminopropyltriethoxysilane:

Acute oral toxicity : LD50 (Rat, male and female): 1,491 - 2,688 mg/kg
Method: EPA OTS 798.1175

Acute toxicity estimate: 1,491 mg/kg
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male): > 5 ppm
Exposure time: 6 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit, male and female): 4,075 mg/kg
Method: Acute dermal toxicity
Assessment: The substance or mixture has no acute dermal toxicity

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melamine:

Acute oral toxicity : LD50 (Rat, male and female): 3,161 - 3,828 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5190 mg/m3
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes
Assessment: The substance or mixture has no acute inhalation toxicity

Skin corrosion/irritation

Components:

4,4'-methylenebis(2-ethylaniline):

Species : Rabbit
Assessment : No skin irritation
Method : OPPTS 870.2500
Result : No skin irritation

tris(methylphenyl) phosphate:

Species : Rabbit
Result : No skin irritation

4,4'-methylenebis[N-sec-butylaniline]:

Species : Rabbit
Result : No skin irritation

3-aminopropyltriethoxysilane:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Causes burns.

melamine:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : yes

Serious eye damage/eye irritation

Components:

4,4'-methylenebis(2-ethylaniline):

Species : Rabbit
Assessment : No eye irritation
Method : EPA OTS 798.4500
Result : No eye irritation

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tris(methylphenyl) phosphate:

Species : Rabbit
Result : No eye irritation

4,4'-methylenebis[N-sec-butylaniline]:

Species : Rabbit
Result : No eye irritation

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:

Species : Rabbit
Assessment : Irritant
Result : Irritating to eyes.

3-aminopropyltriethoxysilane:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Risk of serious damage to eyes.

melamine:

Species : Rabbit
Remarks : slight irritation

Respiratory or skin sensitisation

Components:

4,4'-methylenebis(2-ethylaniline):

Exposure routes : Skin
Species : Humans
Result : The product is a skin sensitiser, sub-category 1A.

tris(methylphenyl) phosphate:

Exposure routes : Skin
Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

4,4'-methylenebis[N-sec-butylaniline]:

Exposure routes : Skin
Result : Does not cause skin sensitisation.

3-aminopropyltriethoxysilane:

Exposure routes : Skin
Species : Guinea pig
Method : OECD Test Guideline 406
Result : The product is a skin sensitiser, sub-category 1B.

melamine:

Test Type : Maximisation Test

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Exposure routes : Skin
Species : Guinea pig
Assessment : Did not cause sensitisation on laboratory animals.
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.
GLP : yes

Germ cell mutagenicity

Components:

4,4'-methylenebis(2-ethylaniline):

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)
Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Cell type: Somatic
Application Route: Intraperitoneal injection
Exposure time: 72 h
Dose: 56 - 140 mg/kg
Method: OECD Test Guideline 474
Result: Not classified due to inconclusive data.

Test Type: In vivo micronucleus test
Species: Mouse
Cell type: Somatic
Application Route: Intraperitoneal injection
Dose: 9.3 - 37 mg/kg
Method: OECD Test Guideline 474
Result: positive

Germ cell mutagenicity-
Assessment : Positive result(s) from in vivo somatic cell mutagenicity tests supported by positive results from in vitro mutagenicity assays or chemical structure activity relationship to known germ cell mutagens

tris(methylphenyl) phosphate:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Result: negative

Germ cell mutagenicity-
Assessment : In vitro tests did not show mutagenic effects

4,4'-methylenebis[N-sec-butylaniline]:

Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative

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3-aminopropyltriethoxysilane:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative

Genotoxicity in vivo : Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

melamine:

Genotoxicity in vitro : Test Type: reverse mutation assay
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: gene mutation test
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Metabolic activation: with and without metabolic activation
Result: negative

Genotoxicity in vivo : Test Type: Chromosome aberration test in vitro
Species: Mouse (male)
Cell type: Bone marrow
Application Route: Intraperitoneal injection
Dose: 0 - 150 - 300 - 600 mg/kg
Result: negative

Carcinogenicity

Components:

4,4'-methylenebis(2-ethylaniline):

Species : Rat, male and female
Application Route : Oral
Exposure time : 103 weeks
Dose : 9 - 10 mg/kg
Frequency of Treatment : 24 hour
Method : OECD Test Guideline 451
Result : positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

tris(methylphenyl) phosphate:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

melamine:

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Species : Rat, male and female
Application Route : Oral
Exposure time : 103 weeks
NOAEL : 126 mg/kg bw/day
Result : negative
Target Organs : Urinary bladder

Species : Mouse, male and female
Application Route : Oral
Exposure time : 103 weeks
NOAEL : 2,250 mg/kg bw/day
Result : negative

Reproductive toxicity

Components:

tris(methylphenyl) phosphate:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
General Toxicity - Parent: LOAEL: 62.5 mg/kg body weight
Target Organs: Testes, Ovary
Method: OECD Test Guideline 415
Result: positive

Effects on foetal development : Species: Rat, female
Application Route: Oral
Dose: 20, 100, 400, 750 milligram per kilogram
General Toxicity Maternal: NOEL: 20 mg/kg body weight
Method: OPPTS 870.3700
Result: Teratogenic effects

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 422
Result: negative

Effects on foetal development : Species: Rat, female
Application Route: Oral
General Toxicity Maternal: NOAEL: 400 mg/kg body weight
Result: No teratogenic effects

melamine:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 1000/4000/12500 ppm
General Toxicity - Parent: NOAEL: 1,000 ppm
General Toxicity F1: NOAEL: >= 12,500 ppm
General Toxicity F2: NOAEL: >= 12,500 parts per million
Target Organs: Testes

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Method: OECD Test Guideline 443

GLP: yes

Effects on foetal development

: Species: Rat, female
Application Route: Oral
General Toxicity Maternal: NOAEL: 600 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic effects

Test Type: Pre-natal

Species: Rat, female

Application Route: Oral

Dose: 136; 400; 1060 mg/kg bw/day

Duration of Single Treatment: 11 d

General Toxicity Maternal: NOAEL: ca. 400 mg/kg body weight

Developmental Toxicity: NOAEL: ca. 1,060 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Test Type: Pre-natal

Species: Rabbit, female

Application Route: Oral

Dose: 15/50/150 mg/kg bw/d

Duration of Single Treatment: 23 d

Frequency of Treatment: 7 days/week

General Toxicity Maternal: NOAEL: 150 mg/kg body weight

Developmental Toxicity: NOAEL: 150 mg/kg body weight

Method: OECD Test Guideline 414

GLP: yes

Reproductive toxicity - Assessment

: Suspected of damaging fertility or the unborn child., Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

Components:

4,4'-methylenebis(2-ethylaniline):

Exposure routes : Ingestion
Target Organs : Liver
Assessment : May cause damage to organs.

STOT - repeated exposure

Components:

4,4'-methylenebis(2-ethylaniline):

Exposure routes : Ingestion
Target Organs : Liver
Assessment : Causes damage to organs through prolonged or repeated exposure.

Exposure routes : Ingestion
Target Organs : Kidney

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Assessment : May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

4,4'-methylenebis(2-ethylaniline):

Species : Rat, male and female
LOAEL : 7.5 - 8 mg/kg/d
Application Route : Ingestion
Exposure time : 2,160 h
Number of exposures : 7 d
Method : Subchronic toxicity

Species : Rat, male and female
NOAEL : 90 mg/kg/d
Application Route : Skin contact
Exposure time : 2,160 h
Number of exposures : 5 d
Method : Subchronic toxicity

tris(methylphenyl) phosphate:

Species : Rat, male and female
NOEL : 1000 mg/kg
Application Route : Ingestion
Exposure time : 2,160 h
Method : Subchronic toxicity

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:

Species : Rat, male and female
NOAEL : 1000 mg/kg/d
Application Route : Ingestion
Exposure time : 1,176 h
Number of exposures : 7 d
Method : Subacute toxicity

Species : Rat, male and female
NOAEL : 300 mg/kg/d
Application Route : Ingestion
Exposure time : 1,176 h
Number of exposures : 7 d
Method : Subacute toxicity

3-aminopropyltriethoxysilane:

Species : Rat, male and female
NOAEL : 200 mg/kg
Application Route : Ingestion
Exposure time : 2,160 h
Method : Subchronic toxicity

melamine:

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Species	:	Rat, male
NOAEL	:	72 mg/kg
Application Route	:	oral (feed)
Exposure time	:	13 Weeks
Method	:	Subchronic toxicity

Aspiration toxicity

No data available

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : 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.

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

4,4'-methylenebis(2-ethylaniline):

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 20.6 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.35 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.00525 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

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Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 10

tris(methylphenyl) phosphate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.6 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.146 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 : 0.4042 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h

Toxicity to fish (Chronic toxicity) : NOEC: 0.01 mg/l
Exposure time: 28 d
Species: Other

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test

M-Factor (Chronic aquatic toxicity) : 1

4,4'-methylenebis[N-sec-butylaniline]:

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 4,600 mg/l
Exposure time: 96 h
Test Type: flow-through test
Test substance: Fresh water
Method: DIN 38412

LC50 (Leuciscus idus (Golden orfe)): 2,700 mg/l

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Exposure time: 48 h
Test Type: static test
Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates : IC0 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Test Type: static test
Method: Directive 67/548/EEC, Annex V, C.2.

Toxicity to algae/aquatic plants : EC50 (Other): 150.67 mg/l
Exposure time: 72 h
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 211

3-aminopropyltriethoxysilane:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 934 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 331 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 1,000 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to microorganisms : EC50 (Pseudomonas putida): 43 mg/l
Exposure time: 5.75 h
Test Type: static test
Test substance: Fresh water

melamine:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 3,000 mg/l
End point: mortality
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
GLP: no

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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 200 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
Test substance: Fresh water
GLP: yes
- Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 325 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
GLP: yes
- NOEC (Selenastrum capricornutum (green algae)): 98 mg/l
Exposure time: 96 h
Test Type: static test
Test substance: Fresh water
GLP: yes
- Toxicity to fish (Chronic toxicity) : NOEC: \geq 5 mg/l
Exposure time: 36 d
Species: Pimephales promelas (fathead minnow)
Test Type: flow-through test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 210
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: \geq 11 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Analytical monitoring: yes
Test substance: Fresh water
Method: OECD Test Guideline 211
GLP: yes

12.2 Persistence and degradability

Components:

tris(methylphenyl) phosphate:

- Biodegradability : Test Type: aerobic
Inoculum: Sewage (STP effluent)
Concentration: 100 mg/l
Result: Readily biodegradable.
Biodegradation: 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301C

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:

- Biodegradability : Inoculum: activated sludge
Concentration: 107 mg/l
Result: Inherently biodegradable.

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Biodegradation: 36 %
Exposure time: 28 d
Method: OECD Test Guideline 302B

Inoculum: Domestic sewage
Concentration: 30 mg/l
Result: Not readily biodegradable.
Biodegradation: 9 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.D.

3-aminopropyltriethoxysilane:

Biodegradability : Inoculum: activated sludge
Concentration: 8.95 mg/l
Result: Not readily biodegradable.
Biodegradation: 67 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.A.

melamine:

Biodegradability : Inoculum: activated sludge
Concentration: 100 mg/l
Result: Not readily biodegradable.
Biodegradation: < 10 %
Related to: Dissolved organic carbon (DOC)
Exposure time: 28 d
Method: OECD Test Guideline 302B
Test substance: Fresh water

Inoculum: activated sludge
Concentration: 100 parts per million
Result: Not biodegradable
Method: OECD Test Guideline 301C
Test substance: Fresh water

12.3 Bioaccumulative potential

Components:

tris(methylphenyl) phosphate:

Partition coefficient: n-octanol/water : log Pow: 5.93

4,4'-methylenebis[N-sec-butylaniline]:

Bioaccumulation : Bioconcentration factor (BCF): 4,700

Partition coefficient: n-octanol/water : log Pow: 6.08
Method: QSAR

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol:

Partition coefficient: n-octanol/water : log Pow: -2.08 (25 °C)

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3-aminopropyltriethoxysilane:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 3.4
Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 1.7 (20 °C)
pH: 7

melamine:

Partition coefficient: n-octanol/water : log Pow: -1.22 (20 °C)
pH: 8
Method: Partition coefficient
GLP: no

12.4 Mobility in soil

Components:

tris(methylphenyl) phosphate:

Distribution among environmental compartments : Koc: 4.31
Method: OECD Test Guideline 121

4,4'-methylenebis[N-sec-butylaniline]:

Distribution among environmental compartments : Koc: 4.91
Method: QSAR

melamine:

Distribution among environmental compartments : Koc: 1.7

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 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : 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

Product:

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Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of contents and container in accordance with all local, regional, national and international regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(4,4'-METHYLENEBIS(2-ETHYLANILINE), TRICRESYL PHOSPHATE)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(4,4'-METHYLENEBIS(2-ETHYLANILINE), TRICRESYL PHOSPHATE)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(4,4'-METHYLENEBIS(2-ETHYLANILINE), TRICRESYL PHOSPHATE)

IATA : Environmentally hazardous substance, liquid, n.o.s.
(4,4'-METHYLENEBIS(2-ETHYLANILINE), TRICRESYL PHOSPHATE)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 9	
RID	: 9	

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IMDG : 9

IATA : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

IATA (Cargo)

Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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14.7 Maritime transport in bulk according to IMO instruments

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

- | | | |
|--|---|---|
| REACH - List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). |
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:
Number on list 3 |
| UK REACH List of restrictions (Annex 17) | : | Not applicable |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation | : | Not applicable |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

DSL : This product contains one or several components listed in the Canadian NDSL.

AIIC : On the inventory, or in compliance with the inventory

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NZIoC	: Not in compliance with the inventory
ENCS	: On the inventory, or in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TCSI	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory

Inventories

AICS (Australia), AIIC (Australia), DSL (Canada), IECSC (China), ENCS (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (United States of America (USA))

15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

SECTION 16: Other information

Full text of H-Statements

H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H341	: Suspected of causing genetic defects.
H351	: Suspected of causing cancer.
H361	: Suspected of damaging fertility or the unborn child.
H371	: May cause damage to organs if swallowed.
H372	: Causes damage to organs through prolonged or repeated exposure if swallowed.
H373	: May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

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URALANE® 5774 C US

Version	Revision Date:	SDS Number:	Date of last issue: 17.03.2017
2.0	22.11.2022	400001010057	Date of first issue: 18.01.2017

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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 Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

Further information

Classification of the mixture:

Acute Tox. 4	H302
Skin Sens. 1	H317
Muta. 2	H341
Carc. 2	H351
Repr. 2	H361
STOT SE 2	H371
STOT RE 1	H372
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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SAFETY DATA SHEET

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

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