


SAFETY DATA SHEET

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PanelBond ADHESIVE

Version: 8.0

824078

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (SI 2019 No. 758) as amended - SDSGHS_GB

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

Trade name : PanelBond
ADHESIVE

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

Recommended use : Adhesives

1.3 Details of the supplier of the safety data sheet

Wayside Adhesives Ltd
23 Main Road
Radcliffe on Trent
Nottingham
NG12 2BE

Tel: 01159 33 33 21

info@waysideadhesives.com

1.4 Emergency telephone number

01159 33 33 21

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture
Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Sub-category 1C	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction.
Precautionary statements	:	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children.
		Prevention: P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
		Response: P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
		Storage: P405 Store locked up.
		Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

1-Propanamine, 3,3'-[oxybis(2,1-ethanedioxy)]bis-
2,4,6-tris(dimethylaminomethyl)phenol
2-ethyl-4-methylimidazole
1,5-Pentanediamine, 2-methyl-

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

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
3,3'-oxybis(ethyleneoxy)bis(propylamine)	4246-51-9 224-207-2	Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 10 - < 15
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 603-069-00-0 01-2119560597-27-XXXX	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 5 - < 10
2-ethyl-4-methylimidazole	931-36-2 213-234-5	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 2,5 - < 3
2-methylpentane-1,5-diamine	15520-10-2 239-556-6	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 1 - < 2,5
bis[(dimethylamino)methyl]phenol	71074-89-0 275-162-0	Skin Corr. 1; H314 Eye Dam. 1; H318	>= 1 - < 2,5
4-methylimidazole	822-36-6 212-497-3	Acute Tox. 4; H302 Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318	>= 0,1 - < 0,5

		Carc. 2; H351 STOT SE 3; H335 (Respiratory system)	
Substances with a workplace exposure limit :			
Silica, vitreous	60676-86-0 262-373-8		>= 10 - < 15

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.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or Section 11.
- Risks : May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Ammonia
Formaldehyde
Hydrogen cyanide (hydrocyanic acid)
Organic acids

5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : 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.
Ensure adequate ventilation.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

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 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 further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
 Container hazardous when empty.
 Avoid exposure - obtain special instructions before use.
 Avoid contact with skin and eyes.
 Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.
 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 : Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location. When using do not smoke.

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. Observe label precautions.

Further information on storage stability : No decomposition if stored and applied as directed.

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
Silica, vitreous	60676-86-0	TWA (Respirable dust)	0,08 mg/m3 Respirable dust	GB EH40

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

- Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.
- Hand protection
Material : butyl-rubber
Break through time : 480 min
Glove thickness : > 0,5 mm
- Remarks : The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : Wear as appropriate:
Impervious clothing
Chemical resistant apron
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter within the capabilities of the respirator/filter combination.
Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear a positive-pressure supplied-air respirator.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	viscous liquid
Colour	:	tan
Odour	:	very faint, amine-like
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	132,5 °C (1,333333 hPa) Calculated Phase Transition Liquid/Gas
Flash point	:	> 93,4 °C Method: Seta closed cup
Evaporation rate	:	1 Ethyl Ether = 1
Flammability (solid, gas)	:	not determined
Upper explosion limit / Upper flammability limit	:	Upper explosion limit not determined
Lower explosion limit / Lower flammability limit	:	Lower explosion limit not determined
Vapour pressure	:	< 10 hPa (20 °C)
Relative vapour density	:	> 1 (Air = 1.0)
Relative density	:	1,13 (25 °C)

Density	:	1,13 g/cm ³ (20 °C)
Solubility(ies)		
Water solubility	:	practically insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	not determined
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	> 10000 mm ² /s (40 °C)
Oxidizing properties	:	Not applicable

9.2 Other information

Flammability (liquids)	:	not determined
Self-ignition	:	not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.
excessive heat
Exposure to moisture

10.5 Incompatible materials

Materials to avoid : Acids
fluorides
Oxidizing agents
Strong bases
Peroxides

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Eye contact
Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
Method: Calculation method

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Acute oral toxicity : LD50 (Rat): 2.850 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.150 mg/kg
Method: OECD Test Guideline 402

Components:

2,4,6-tris(dimethylaminomethyl)phenol
Acute oral toxicity : LD50 (Rat): 2.169 mg/kg
Method: OECD Test Guideline 401

Components:

2-ethyl-4-methylimidazole
Acute oral toxicity : LD50 (Rat): ca. 731 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 0,03 mg/l
Exposure time: 8 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit): > 400 mg/kg
Method: OECD Test Guideline 402
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Components:

2-methylpentane-1,5-diamine
Acute oral toxicity : LD50 (Rat, male): 1.690 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 4,9 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rat, male and female): 1.870 mg/kg
Method: OECD Test Guideline 402
GLP: no
Remarks: Information given is based on data obtained from similar substances.

Components:

4-methylimidazole
Acute oral toxicity : LD50 (Rat): 751 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 440 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Species: in vitro membrane barrier

Method: OECD Test Guideline 435

Result: Corrosive after 1 to 4 hours of exposure

Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye damage.

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Species: Rabbit

Result: Corrosive after 3 minutes to 1 hour of exposure

2,4,6-tris(dimethylaminomethyl)phenol

Result: Corrosive after 1 to 4 hours of exposure

2-ethyl-4-methylimidazole

Result: Irritating to skin.

2-methylpentane-1,5-diamine

Species: Rabbit

Method: OECD Test Guideline 404

Result: Corrosive after 3 minutes or less of exposure

bis[(dimethylamino)methyl]phenol

Result: Corrosive to skin

4-methylimidazole

Species: Rabbit

Result: Corrosive to skin

Silica, vitreous

Result: Slight, transient irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Species: Rabbit
Result: Corrosive

2,4,6-tris(dimethylaminomethyl)phenol
Result: Corrosive

2-ethyl-4-methylimidazole
Result: Corrosive

2-methylpentane-1,5-diamine
Species: Rabbit
Result: Corrosive

bis[(dimethylamino)methyl]phenol
Result: Corrosive

4-methylimidazole
Species: Rabbit
Result: Corrosive

Silica, vitreous
Result: Slight, transient irritation

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Product:

Remarks: May cause allergic skin reaction.

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Assessment: May cause sensitisation by skin contact.

2-ethyl-4-methylimidazole

Assessment: The product is a skin sensitiser, sub-category 1B.

Method: Local lymph node assay

2-methylpentane-1,5-diamine

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

- Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
- : Test Type: In vitro gene mutation study in bacteria
Method: OECD Test Guideline 471
Result: negative
- 2-ethyl-4-methylimidazole
Genotoxicity in vitro : Test Type: Ames test
Result: negative
- 2-methylpentane-1,5-diamine
Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Test species: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes
- : Test species: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes
- Genotoxicity in vivo : Test Type: In vivo micronucleus test
Test species: Mouse (male and female)
Application Route: inhalation (dust/mist/fume)
Method: OECD Test Guideline 474
Result: negative
GLP: yes
Remarks: Information given is based on data obtained from similar substances.
- 4-methylimidazole
Genotoxicity in vitro : Test Type: Ames test
Test species: Salmonella typhimurium
Result: negative
- Germ cell mutagenicity-
Assessment : Not mutagenic in Ames Test

Carcinogenicity

Not classified based on available information.

Components:

4-methylimidazole

Species: Rat

Application Route: Ingestion

Result: Increase in tumor incidence was reported.

Target Organs: Lungs

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Effects on fertility : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: No effects on fertility and early embryonic development were detected.

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: No effects on fertility and early embryonic development were detected.

STOT - single exposure

Not classified based on available information.

Components:

2-methylpentane-1,5-diamine

Exposure routes: Inhalation

Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

4-methylimidazole

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Species: Rat

Application Route: In water
Exposure time: Repeated
Method: OECD Test Guideline 422
Remarks: No significant adverse effects were reported

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Components:

Silica, vitreous

Remarks: Lung

SECTION 12: Ecological information

12.1 Toxicity

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1.000 mg/l
Exposure time: 96 h
Remarks: Nominal

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 218,16 mg/l
aquatic invertebrates : Exposure time: 48 h
Remarks: Nominal

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l
Exposure time: 72 h
Remarks: Nominal

NOEC (Desmodesmus subspicatus (green algae)): 15,6 mg/l
Exposure time: 72 h
Remarks: Nominal

2,4,6-tris(dimethylaminomethyl)phenol

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 180 - < 240
mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 84 mg/l
 End point: Growth inhibition
 Exposure time: 72 h

2-ethyl-4-methylimidazole
 Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 68,1 mg/l
 Exposure time: 96 h
 Remarks: mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 297 mg/l
 Exposure time: 48 h
 Test Type: static test

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 124,8 mg/l
 Exposure time: 72 h
 Test Type: static test

2-methylpentane-1,5-diamine
 Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 130 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: OECD Test Guideline 203
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 50 mg/l
 Exposure time: 48 h
 Test Type: static test
 Method: EPA-660/3-75-009
 Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201
 Remarks: Information given is based on data obtained from similar substances.

NOEC (Pseudokirchneriella subcapitata (green algae)): 10 mg/l
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201

Remarks: Information given is based on data obtained from similar substances.

Toxicity to bacteria	: EC20 (<i>Pseudomonas putida</i>): 30 mg/l End point: Growth rate Exposure time: 18 h Test Type: Static
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 4,16 mg/l Exposure time: 21 d End point: Reproduction Test Species: <i>Daphnia magna</i> (Water flea) Test Type: semi-static test Method: OECD Test Guideline 211 GLP: yes Remarks: Information given is based on data obtained from similar substances.
4-methylimidazole Toxicity to fish	: EC50 (<i>Leuciscus idus</i> (Golden orfe)): 34 mg/l Exposure time: 96 h Remarks: mortality
Toxicity to daphnia and other aquatic invertebrates	: EC50 (<i>Daphnia magna</i> (Water flea)): 180 mg/l Exposure time: 48 h
Toxicity to algae	: EC50 (<i>Desmodesmus subspicatus</i> (green algae)): 2 mg/l Exposure time: 72 h

12.2 Persistence and degradability

Components:

3,3'-oxybis(ethyleneoxy)bis(propylamine)

Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 10 %
Exposure time: 60 d

2,4,6-tris(dimethylaminomethyl)phenol

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 4 %
Exposure time: 28 d
Method: OECD Test Guideline 301D

2-ethyl-4-methylimidazole

Biodegradability : Biodegradation: 90 %
Exposure time: 28 d
Remarks: Readily biodegradable

2-methylpentane-1,5-diamine
Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes

4-methylimidazole
Biodegradability : Result: Readily biodegradable.
Remarks: Information given is based on data obtained from similar substances.

12.3 Bioaccumulative potential

Components:

2-ethyl-4-methylimidazole
Partition coefficient: n-
octanol/water : log Pow: 1,13

2-methylpentane-1,5-diamine
Partition coefficient: n-
octanol/water : log Pow: <= 1 (25 °C)
pH: 9
GLP: yes

4-methylimidazole
Bioaccumulation : Remarks: The product may be accumulated in organisms.

Partition coefficient: n-
octanol/water : log Pow: 0,23

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 0.1% or higher..

12.6 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

ADN: UN3267

ADR: UN3267

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN3267

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN3267

INTERNATIONAL MARITIME DANGEROUS GOODS: UN3267

RID: UN3267

14.2 UN proper shipping name

ADN: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ALIPHATIC AMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

ADR: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ALIPHATIC AMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Corrosive liquid, basic, organic, n.o.s. (ALIPHATIC AMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Corrosive liquid, basic, organic, n.o.s. (ALIPHATIC AMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

INTERNATIONAL MARITIME DANGEROUS GOODS: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ALIPHATIC AMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

RID: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ALIPHATIC AMINE, 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL)

14.3 Transport hazard class(es)

ADN: 8

ADR: 8

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 8

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 8

INTERNATIONAL MARITIME DANGEROUS GOODS: 8

RID: 8

14.4 Packing group

ADN: III

ADR: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: III

INTERNATIONAL MARITIME DANGEROUS GOODS: III

RID: III

14.5 Environmental hazards

ADN: Not applicable

ADR: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information

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

UK REACH List of substances subject to authorisation : Not applicable
(Annex XIV)

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

TCSI	: Not in compliance with the inventory
TSCA	All substances listed as active on the TSCA inventory
AIIC	On the inventory, or in compliance with the inventory
DSL	This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.
ENCS	Not in compliance with the inventory
ISHL	Not in compliance with the inventory
KECI	On the inventory, or 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
NZIoC	Not in compliance with the inventory

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H302	:	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H332	:	Harmful if inhaled.
H335	:	May cause respiratory irritation.
H351	:	Suspected of causing cancer.
H412	:	Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure

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 population; 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

Sources of key data used to compile the Safety Data Sheet : Internal data including own and sponsored test reports
European Union Law with content from the Official Journal of the European Union.
European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.
The German Water Hazard Classes.
ReachCentrum; a series of support services to help comply with REACH regulations.
The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law.
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.
Cefic, the European Chemical Industry Council.
ESIS European Chemical Substances Information System

Classification of the mixture:

Classification procedure:

Skin Corr. 1C	H314	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
Skin Sens. 1	H317	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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