

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier.

Product Name: ACE PUR 200 FR B

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

Use of the Substance/Mixture : Component of a Polyurethane System.

1.3 Details of the supplier of the safety data sheet.

Company: ACE COATINGS
Address: Campo Sagrado, 1133205
City: Gijón
Province: Asturias
Telephone: +34 985 323 328
E-mail: info@acecoatings.com
Web: www.acecoatings.com

1.4 Emergency telephone number: (Available 24 hours)

Telephone number
+34 977 822 245 (Only available during office hours)
EUROPE: +32 35 75 1234

SECTION 2: HAZARDS IDENTIFICATION

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4- H302: Harmful if swallowed.

Skin corrosion, Sub-category 1B- H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1- H318: Causes serious eye damage.

Specific target organ toxicity - repeated exposure, Category 2 -H373: May cause damage to organs through prolonged or repeated exposure.

Short-term (acute) aquatic hazard, Category 1-H400: Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1-H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P260 Do not breathe mist or vapours.

P273 Avoid release to the environment.

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

Response:

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.

P391 Collect spillage.

Hazardous components which must be listed on the label:

Polyoxypropylenediamine

diethylmethylbenzenediamine

Reaction products of phosphoryl trichloride and 2-methyloxirane

2.3 Other hazards

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

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Ecological information: 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
Toxicological information: 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 .

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Amines

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Polyoxypropylenediamine	9046-10-0 Polymer	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Chronic 3; H412 Acute toxicity estimate Acute oral toxicity: 480 mg/kg	>= 30 - < 50
diethylmethylbenzenediamine	68479-98-1 270-877-4 612-130-00-0 01-2119486805-25	Acute Tox. 4; H302 Acute Tox. 4; H312 Eye Irrit. 2; H319 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 25 - < 30

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		Acute toxicity estimate	
		Acute oral toxicity: 738 mg/kg	
		Acute dermal toxicity: 1 128 mg/kg	
Reaction products of phosphoryl trichloride and 2-methyloxirane	1244733-77-4 - 01-2119486772-26	Acute Tox. 4; H302	>= 20 - < 30

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 :

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

If on skin, rinse well with water.

If on clothes, remove clothes.

-In case of eye contact :

Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

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.

Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
-If swallowed :
Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

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), Hydrogen chloride, Halogenated compounds, Oxides of phosphorus.

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.

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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 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 :

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.

To avoid spills during handling keep bottle on a metal tray.

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.

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-Further information on storage stability : Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) : No data available

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
diethylmethylbenzene diamine	Workers	Inhalation	Long-term systemic effects	0,13 mg/m3
	Workers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,1 mg/m3
	Consumers	Dermal	Long-term systemic effects	1 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,1 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
diethylmethylbenzenediamine	Fresh water	0,001 mg/l
	Remarks:Assessment Factors	
	Marine water	0 mg/l
	Remarks:Assessment Factors	
	Freshwater - intermittent	0,005 mg/l
	Remarks:Assessment Factors	
	Sewage treatment plant	17 mg/l
	Remarks:Assessment Factors	
	Secondary Poisoning	2 mg/kg
	Remarks:Assessment Factors	
	Fresh water sediment	0,029 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
	Marine sediment	0,003 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	
	Soil	0,005 mg/kg dry weight (d.w.)
	Remarks:Equilibrium method	

8.2 Exposure controls

Personal protective equipment

-Eye protection :

Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

-Hand protection:

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 :

In the case of vapour formation use a respirator with an approved filter.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : No data is available on the product itself.

Odour : No data is available on the product itself.

Odour Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Melting point/freezing point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : > 100 °C

Method: closed cup

Method: open 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 : No data is available on the product itself.

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

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

Density : No data is available on the product itself.

Solubility(ies)

Water solubility : No data is available on the product itself.

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

Partition coefficient: noctanol/water : No data is available on the product itself.

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

Decomposition temperature : No data is available on the product itself.

Viscosity : No data is available on the product itself.

9.2 Other information

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.

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 : None known.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

Hazardous decomposition products : Halogenated compounds, hydrogen chloride, Oxides of phosphorus, carbon monoxide, carbon dioxide

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: 612,63 mg/kg

Method: Calculation method

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-Acute dermal toxicity : Acute toxicity estimate: > 2 000 mg/kg
Method: Calculation method

Components:

-Polyoxypropylenediamine:

Acute oral toxicity : LD50 (Rat): 480 mg/kg

LD50 (Rat, male and female): 2 885 mg/kg

Method: OECD Test Guideline 401

-Acute toxicity estimate: 480 mg/kg

Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, male and female): > 0,74 mg/l

Exposure time: 8 h

Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhalation toxicity

-Acute dermal toxicity :

LD50 (Rabbit): 2 085,8 mg/kg

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

diethylmethylbenzenediamine:

Acute oral toxicity : LD50 (Rat, male and female): 738 mg/kg

Method: OECD Test Guideline 401

-Acute toxicity estimate: 738 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate (Rat, male and female): 1 128 mg/kg

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

Reaction products of phosphoryl trichloride and 2-methyloxirane:

-Acute oral toxicity :

LD50 (Rat): 632 - 4 200 mg/kg

Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 7,19 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhalation toxicity

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

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal toxicity

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Skin corrosion/irritation

Components:

-Polyoxypropylenediamine:

Species : Rabbit

Method : OECD Test Guideline 404

Result : Corrosive after 3 minutes to 1 hour of exposure

-diethylmethylbenzenediamine:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

GLP : yes

-Reaction products of phosphoryl trichloride and 2-methyloxirane:

Species : Rabbit

Assessment : No skin irritation

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Components:

-Polyoxypropylenediamine:

Species : Rabbit

Assessment : Risk of serious damage to eyes.

Result : Risk of serious damage to eyes.

Remarks : Risk of serious damage to eyes.

-diethylmethylbenzenediamine:

Species : Rabbit

Assessment : Irritant

Result : Irritating to eyes.

Species : Rabbit

Assessment : Irritating to eyes.

Method : Other guidelines

Result : Irritation to eyes, reversing after 7 to 21 days

-Reaction products of phosphoryl trichloride and 2-methyloxirane:

Species : Rabbit

Assessment : No eye irritation

Method : OECD Test Guideline 405

Result : No eye irritation

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Respiratory or skin sensitisation

Components:

-diethylmethylbenzenediamine:

Exposure routes : Intradermal

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Result : Did not cause sensitisation on laboratory animals.

GLP : no

-Reaction products of phosphoryl trichloride and 2-methyloxirane:

Exposure routes : Skin

Species : Mouse

Method : OECD Test Guideline 429

Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

-Polyoxypropylenediamine:

Genotoxicity in vitro : Test Type: gene mutation test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

-Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse (male and female)

Cell type: Bone marrow

Application Route: Oral

Dose: 125, 250 and 500 mg/kg

Method: OECD Test Guideline 474

Result: negative

-diethylmethylbenzenediamine:

Genotoxicity in vitro : Metabolic activation: no

Method: OECD Test Guideline 476

Result: negative

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

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Method: OECD Test Guideline 473

Result: Not classified due to inconclusive data.

GLP: yes

-Genotoxicity in vivo :

Test Type: Micronucleus test

Species: Mouse (male and female)

Application Route: Oral

Dose: 125/250/500 mg/kg bw/d

Method: OECD Test Guideline 474

Result: negative

GLP: yes

-Reaction products of phosphoryl trichloride and 2-methyloxirane:

Germ cell mutagenicity Assessment : Did not show mutagenic effects in animal experiments.

Carcinogenicity

Components:

-diethylmethylenediamine:

Species : Rat, male and female

Application Route : Oral

Exposure time : 24 month(s)

Dose : 10/35/70 ppm

Frequency of Treatment : 7 daily

LOAEL : 1,4 - 3,8 mg/kg body weight

Method : OECD Test Guideline 451

Result : negative

GLP : yes

Reproductive toxicity

Components:

-Polyoxypropylenediamine:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat, male and female

Application Route: Dermal

Dose: 3, 10, 30 mg/kg bw/day

General Toxicity - Parent: NOAEL: 10 mg/kg body weight

General Toxicity F1: NOAEL: 30 mg/kg body weight

Method: OECD Test Guideline 421

-diethylmethylenediamine:

Effects on foetal development : Test Type: Pre-natal

Species: Rat, female

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Application Route: Oral

Dose: 0/50/150/500 mg/kg bw/d

Duration of Single Treatment: 20 d

Frequency of Treatment: 7 days/week

General Toxicity Maternal: NOEL: 2,63 mg/kg body weight

Developmental Toxicity: NOAEL: 7,83 mg/kg body weight

Method: OECD Test Guideline 414

Result: No data available

GLP: yes

-Reaction products of phosphoryl trichloride and 2-methyloxirane:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

General Toxicity - Parent: LOAEL: 99 mg/kg body weight

Method: OECD Test Guideline 416

Result: Animal testing did not show any effects on fertility.

-Effects on foetal development :

Species: Rat, female

Application Route: Oral

General Toxicity Maternal: NOEL: 57 mg/kg body weight

Method: OECD Test Guideline 414

Result: No teratogenic effects

STOT - single exposure: No data available

STOT - repeated exposure :

Components:

-diethylmethylbenzenediamine:

Exposure routes : Ingestion

Target Organs : Pancreas

Assessment : May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity

Components:

-Polyoxypropylenediamine:

Species : Rat, male and female

NOAEL : 250 mg/kg

Method : OECD Test Guideline 411

-diethylmethylbenzenediamine:

Species : Rat, male and female

NOAEL : 8 - 10 mg/kg

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Application Route : oral (feed)

Exposure time : 90 d

Number of exposures : daily

Dose : 0/50/125/320 ppm

Method : OECD Test Guideline 408

GLP : yes

Species : Rabbit, male and female

NOAEL : > 100 mg/kg

Application Route : Skin contact

Exposure time : 21 d

Number of exposures : 5 days/week

Dose : 1/10/100 mg/kg bw/d

Method : Subchronic toxicity

GLP : yes

Reaction products of phosphoryl trichloride and 2-methyloxirane:

Species : Rat, male

LOAEL : 52 mg/kg/d

Application Route : Ingestion

Exposure time : 13 Weeks

Number of exposures : 7 d

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

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12.1 Toxicity

Components:

Polyoxypropylenediamine:

Toxicity to fish : LC50 : > 100 mg/l

Exposure time: 96 h

LC50 (Cyprinodon variegatus (sheepshead minnow)): 600 mg/l

Exposure time: 96 h

Test Type: static test

-Toxicity to daphnia and other aquatic invertebrates :

EC50 (Daphnia magna (Water flea)): 80 mg/l

Exposure time: 48 h

Test Type: static test

Method: OECD Test Guideline 202

-Toxicity to algae/aquatic plants :

EC50 (Pseudokirchneriella subcapitata (algae)): 15 mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

-Toxicity to microorganisms :

EC50 (activated sludge): 750 mg/l

Test Type: static test

Method: OECD Test Guideline 209

diethylmethylbenzenediamine:

-Toxicity to fish :

LC50 (Leuciscus idus (Golden orfe)): 200 mg/l

End point: mortality

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

Method: DIN 38412

GLP: no

-Toxicity to daphnia and other aquatic invertebrates :

EC50 (Daphnia magna (Water flea)): 0,5 mg/l

End point: Immobilization

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

Method: Directive 67/548/EEC, Annex V, C.2.

GLP: no

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-Toxicity to algae/aquatic plants :

ErC50 (Desmodesmus subspicatus (green algae)): ca. 104 mg/l

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

GLP: yes

ErC10 (Desmodesmus subspicatus (green algae)): ca. 54 mg/l

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

GLP: yes

-M-Factor (Acute aquatic toxicity) : 1

-Toxicity to microorganisms :

EC50 (Pseudomonas putida): > 170 mg/l

Exposure time: 24 h

Test Type: static test

Analytical monitoring: no

Test substance: Fresh water

GLP: no

-M-Factor (Chronic aquatic toxicity): 1

Reaction products of phosphoryl trichloride and 2-methyloxirane:

-Toxicity to fish :

LC50 (Brachydanio rerio (zebrafish)): 56,2 mg/l

Exposure time: 96 h

Test Type: static test

Test substance: Fresh water

LC50 (Pimephales promelas (fathead minnow)): 51 mg/l

Exposure time: 96 h

Test Type: static test

Test substance: Fresh water

-Toxicity to daphnia and other aquatic invertebrates :

LC50 (Daphnia magna (Water flea)): 131 mg/l

Exposure time: 48 h

Test Type: static test

Test substance: Fresh water

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-Toxicity to algae/aquatic plants :

ErC50 (Selenastrum capricornutum (green algae)): 82 mg/l

Exposure time: 72 h

Test Type: static test

Test substance: Fresh water

Method: OECD Test Guideline 201

-Toxicity to microorganisms :

EC50 (activated sludge): 784 mg/l

Exposure time: 3 h

Test Type: static test

Test substance: Fresh water

Method: ISO 8192

-Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) :

NOEC: 32 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Test substance: Fresh water

Method: OECD Test Guideline 202

Ecotoxicology Assessment

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

12.2 Persistence and degradability

Components:

-diethylmethylbenzenediamine:

Biodegradability :

Result: Not readily biodegradable.

Method: QSAR

GLP: no

-Photodegradation :

Test Type: Air

Rate constant: < .00001

Reaction products of phosphoryl trichloride and 2-methyloxirane:

-Biodegradability :

Inoculum: activated sludge

Result: Inherently biodegradable.

Biodegradation: 95 %

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Exposure time: 63 d
Method: OECD Test Guideline 302A
Inoculum: activated sludge
Concentration: 20 mg/l
Result: Not readily biodegradable.
Biodegradation: 14 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
-Stability in water :
Degradation half life (DT50): > 1 yr (25 °C)
pH: 6,5
Remarks: Fresh water
-Photodegradation :
Test Type: Air
Rate constant: < .00001
Degradation (direct photolysis): 50 %

12.3 Bioaccumulative potential

Components:
diethylmethylbenzenediamine:
-Bioaccumulation :
Species: Fish
Bioconcentration factor (BCF): 2,75
GLP: no
Remarks: Does not bioaccumulate.
-Partition coefficient:
noctanol/water : log Pow: 1,17 (25 °C)
Method: OECD Test Guideline 107
GLP: yes

Reaction products of phosphoryl trichloride and 2-methyloxirane:
-Bioaccumulation :
Species: Cyprinus carpio (Carp)
Exposure time: 42 d
Bioconcentration factor (BCF): 0,8 - 14
Test substance: Fresh water
Method: flow-through test
Bioconcentration factor (BCF): 6,58

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-Partition coefficient: noctanol/water :
log Pow: 2,68 (30 °C)
pH: 7,1
Method: Partition coefficient

12.4 Mobility in soil

Components:

-diethylmethylbenzenediamine:

Distribution among environmental compartments :

Koc: 31,72 - 551

-Reaction products of phosphoryl trichloride and 2-methyloxirane:

Distribution among environmental compartments :

Koc: 576

Method: Directive 67/548/EEC, Annex V, C.19

Koc: 780

Method: OECD Test Guideline 106

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:

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.

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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 2735

RID : UN 2735

IMDG : UN 2735

IATA : UN 2735

14.2 UN proper shipping name

-ADR : AMINES, LIQUID, CORROSIVE, N.O.S.

(POLYOXYPROPYLENEDIAMINE, DIETHYLTOLUENEDIAMINE)

(POLYOXYPROPYLENEDIAMINE)

-RID : AMINES, LIQUID, CORROSIVE, N.O.S.

(POLYOXYPROPYLENEDIAMINE, DIETHYLTOLUENEDIAMINE)

(POLYOXYPROPYLENEDIAMINE)

-IMDG : AMINES, LIQUID, CORROSIVE, N.O.S.

(POLYOXYPROPYLENEDIAMINE, DIETHYLTOLUENEDIAMINE)

(POLYOXYPROPYLENEDIAMINE)

-IATA : Amines, liquid, corrosive, n.o.s.

(POLYOXYPROPYLENEDIAMINE, DIETHYLTOLUENEDIAMINE)

(POLYOXYPROPYLENEDIAMINE)

14.3 Transport hazard class(es)

ADR : 8

RID : 8

IMDG : 8

IATA : 8

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14.4 Packing group

-ADR

Packing group : II

Classification Code : C7

Hazard Identification Number : 80

Labels : 8

Tunnel restriction code : (E)

-RID

Packing group : II

Classification Code : C7

Hazard Identification Number : 80

Labels : 8

-IMDG

Packing group : II

Labels : 8

EmS Code : F-A, S-B

-IATA (Cargo)

Packing instruction (cargo aircraft): 855

Packing instruction (LQ) : Y840

Packing group : II

Labels : Corrosive

-IATA (Passenger)

Packing instruction (passenger aircraft) : 851

Packing instruction (LQ) : Y840

Packing group : II

Labels : Corrosive

14.5 Environmental hazards

-ADR

Environmentally hazardous : yes

-RID

Environmentally hazardous : yes

-IMDG

Marine pollutant : yes()(DIETHYLTOLUENEDIAMINE)

14.6 Special precautions for user

Not applicable

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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

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).

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 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 that are not on the Canadian DSL nor NDSL.

AIIC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

KECI : Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

TCSI : Not in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

Inventories

AIIC (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.

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SECTION 16: OTHER INFORMATION

Full text of H-Statements

H302 : Harmful if swallowed.

H312 : Harmful in contact with skin.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

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.

H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard

Aquatic Chronic : Chronic aquatic toxicity

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Skin Corr. : Skin corrosion

STOT RE : Specific target organ toxicity - repeated exposure

Further information

Classification of the mixture: Classification procedure:

Acute Tox. 4 H302 Calculation method

Skin Corr. 1B H314 Calculation method

Eye Dam. 1 H318 Calculation method

STOT RE 2 H373 Calculation method

Aquatic Acute 1 H400 Calculation method

Aquatic Chronic 1 H410 Calculation method

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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