Safety Data Sheet MAPEFLOOR PATCH / B

Safety Data Sheet dated: 08/29/2024 - version 3

Date of first edition: 02/25/2021



1. Identification

Product identifier

Mixture identification:

Trade name: MAPEFLOOR PATCH / B

Trade code: 9016885

Recommended use and restrictions on use Recommended use: Hardener for epoxy products

Restrictions on use: Not available

Supplier's details

Company: MAPEI INC. (Canada)

2900 Francis-Hughes Avenue H7L 3J5 - Laval - QC - CAN

Phone: 1-450-662-1212

Responsable: RDProductSafety@mapei.com

Emergency phone number

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. Hazard identification





Classification of the product

Serious eye damage, Category 1 Causes serious eye damage.

Skin Sensitization, Category 1A May cause an allergic skin reaction.

Skin corrosion, Category 1C Causes severe skin burns and eye damage.

Label elements

Hazard pictograms and Signal Word



Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist/vapours/spray. P264 Wash skin thoroughly after handling.

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

P301+P330+P33 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P302+P352

IF ON SKIN: Wash with plenty of water.

P303+P361+P35 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

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

P310 Immediately call a doctor.

Print date 08/29/2024 Production Name MAPEFLOOR PATCH / B Page n. 1 of 11 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with applicable regulations.

Other hazards

None

Ingredient(s) with unknown acute toxicity

None

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of the hardened product may create a dust hazard)

3. Composition/information on ingredients

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
25-50 %	fatty acids, tall-oil, polymers with bisphenol a, diethylenetriamine, epichlorohydrin and tetraethylenepentamine;	CAS:68951-85-9 EC:620-444-4	Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
5-10 %	2,4,6- tris(dimethylaminomethyl)phenol	CAS:90-72-2 EC:202-013-9 Index:603-069- 00-0	Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302	01-2119560597-27-XXXX
5-10 %	3-aminomethyl-3,5,5- trimethylcyclohexylamine	CAS:2855-13-2 EC:220-666-8 Index:612-067- 00-9	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1A, H317	01-2119514687-32-XXXX
5-10 %	polyoxypropylenediamine	CAS:9046-10-0 EC:618-561-0	Eye Dam. 1, H318; Skin Corr. 1C, H314; Aquatic Chronic 3, H412	01-2119557899-12-XXXX
5-10 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057- 00-5	Acute Tox. 4, H302; Eye Irrit. 2A, H319	01-2119492630-38-XXXX
1-2.5 %	titanium dioxide	CAS:13463-67-7 EC:236-675-5 Index:022-006- 00-2	Carc. 2, H351	01-2119489379-17-XXXX
1-2.5 %	tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine	CAS:112-57-2 EC:203-986-2 Index:612-060- 00-0	Skin Sens. 1, H317; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Corr. 1B, H314	
1-2.5 %	bis[(dimethylamino)methyl]phenol	CAS:71074-89-0 EC:275-162-0	Skin Corr. 1C, H314	

The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist

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immediately.

Protect uninjured eye.

Remove contact lenses, if present and easy to do. Continue rinsing.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of immediate medical attention and special treatment needed, if necessary

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. Fire-fighting measures

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available Oxidizing properties: Not available

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

Wash skin thoroughly after handling.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

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8. Exposure controls/personal protection Control parameters

Community Occupational Exposure Limits (OEL)

Country **Occupational Exposure Limit** Type benzyl alcohol MAK **GERMANY** Long Term: 22 mg/m3 - 5 ppm CAS: 100-51-6 MAK SWITZERLAN Long Term: 22 mg/m3 - 5 ppm titanium dioxide **ACGIH** Long Term: 10 mg/m3 CAS: 13463-67-7 A4 - IRT irr MAK **GERMANY** Long Term: 0.3 mg/m3 **OSHA** Long Term: 15 mg/m3 **ACGIH** Long Term: 10 mg/m3 A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation MAK **AUSTRIA** Long Term: 5 mg/m3; Short Term: 10 mg/m3 MAK SWITZERLAN Long Term: 3 mg/m3

Predicted No Effect Concentration (PNEC) values

3-aminomethyl-3,5,5-

trimethylcyclohexylamine

Exposure Route: Fresh Water; PNEC Limit: 0.06 mg/l

CAS: 2855-13-2

Exposure Route: Marine water; PNEC Limit: 0.006 mg/l
Exposure Route: Intermittent release; PNEC Limit: 0.23 mg/l
Exposure Route: Freshwater sediments; PNEC Limit: 5.784 mg/kg
Exposure Route: Marine water sediments; PNEC Limit: 0.578 mg/kg

Exposure Route: Soil; PNEC Limit: 1.121 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 3.18 mg/l

titanium dioxide

CAS: 13463-67-7

Exposure Route: Soil; PNEC Limit: 100 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

Exposure Route: Marine water; PNEC Limit: 0.0184 mg/l

Exposure Route: Fresh Water; PNEC Limit: 0.184 mg/l

Exposure Route: Marine water sediments; PNEC Limit: 100 mg/kg Exposure Route: Freshwater sediments; PNEC Limit: 1000 mg/kg Exposure Route: Intermittent release; PNEC Limit: 0.193 mg/l

Derived No Effect Level (DNEL) values

2,4,6- Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

tris Worker Industry: 0.31 mg/m3

(dimethylaminomethyl)

phenol CAS: 90-72-2

3-aminomethyl-3,5,5- Exposure Route: Human Inhalation trimethylcyclohexylamine Worker Industry: 20.1 mg/m3

CAS: 2855-13-2

titanium dioxide Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

CAS: 13463-67-7 Worker Industry: 0.17 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Consumer: 0.028 mg/m3

Appropriate engineering controls

Not available

Individual protection measures, such as personal protective equipment (PPE)

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Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105: Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min. Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min. Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: paste Grey

Odour: ammonia

Odour threshold: No data available

pH: No data available

Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: 94 °C (201 °F)

Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available Vapour pressure: No data available Relative density: 0.52 g/cm3 Solubility in water: partly soluble Solubility in oil: partly soluble

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: No data available

Kinematic viscosity: > 20,5 mm2/sec (40 °C) mm2/s

Explosive properties: No data available Oxidizing properties: No data available Solid/gas flammability: No data available

Other information

Substance Groups relevant properties No data available

Miscibility: No data available Fat Solubility: No data available Conductivity: No data available

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

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11. Toxicological information

Information on toxicological effects

Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met The product is classified: Skin corrosion, Category 1C(H314) b) skin corrosion/irritation c) serious eye damage/irritation The product is classified: Serious eye damage, Category 1(H318) d) respiratory or skin sensitisation The product is classified: Skin Sensitization, Category 1A(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity Not classified

Based on available data, the classification criteria are not met

Not classified g) reproductive toxicity

Based on available data, the classification criteria are not met

h) STOT-single exposure Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure Not classified

Based on available data, the classification criteria are not met

Not classified j) aspiration hazard

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

a) acute toxicity

2,4,6a) acute toxicity LD50 Oral Rat = 2169 mg/kg

tris (dimethylaminomethyl)

phenol

LC50 Inhalation Dust Rat > 5.01 mg/l 4h

LD50 Skin Rat > 1 ml/kg

3-aminomethyl-3,5,5-

trimethylcyclohexylamine

LD50 Oral Rat = 1030 mg/kg LD50 Skin Rat > 2000 mg/kg

polyoxypropylenediamine a) acute toxicity LD50 Oral Rat = 2885 mg/kg

LD50 Skin Rabbit = 2980 mg/kg

benzyl alcohol a) acute toxicity LD50 Oral Rat = 1620 mg/kg

titanium dioxide a) acute toxicity LD50 Oral Rat > 5000 mg/kg

LD50 Skin Rat > 2000 mg/m3

LC50 Inhalation Dust Rat > 6.82 mg/l 4h

LD50 Skin Rabbit > 10000 mg/kg

tetraethylenepentamine; a) acute toxicity

3,6,9-

triazaundecamethylenedia

mine

LD50 Skin Rabbit = $660 \mu L/kg$

LD50 Oral Rat = 2100 mg/kgLD50 Skin Rabbit = 660 μ L/kg LD50 Oral Rat = 3990 mg/kg

Substance(s) listed on the IARC Monographs:

titanium dioxide Group 2B

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Substance(s) listed as OSHA Carcinogen(s):

titanium dioxide

Substance(s) listed as NIOSH Carcinogen(s):

titanium dioxide

Substance(s) listed on the NTP report on Carcinogens:

None

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

Component	-	
Component	Ident. Numb.	Ecotox Data
2,4,6- tris(dimethylaminomethyl)phenol	CAS: 90-72-2 - EINECS: 202- 013-9 - INDEX: 603-069-00-0	a) Aquatic acute toxicity: LC50 Fish = 175 mg/L 96h
		a) Aquatic acute toxicity: EC50 Algae = 46.7 mg/L 72h
		a) Aquatic acute toxicity: NOEC Algae = 25.1 mg/L 72h
3-aminomethyl-3,5,5- trimethylcyclohexylamine	CAS: 2855-13-2 - EINECS: 220- 666-8 - INDEX: 612-067-00-9	a) Aquatic acute toxicity: LC50 Fish = 110 mg/L 96
		a) Aquatic acute toxicity: EC50 Daphnia = 23 mg/L 48
		a) Aquatic acute toxicity: EC50 Daphnia = 388 mg/L 48
		a) Aquatic acute toxicity: EC50 Algae > 50 mg/L 72
		b) Aquatic chronic toxicity: NOEC Daphnia = 3 mg/L - 21 d
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 14.6 mg/L 48h EPA
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 37 mg/L 72h IUCLID
polyoxypropylenediamine	CAS: 9046-10-0 - EINECS: 618- 561-0	a) Aquatic acute toxicity: LC50 Fish > 15 mg/L
benzyl alcohol	CAS: 100-51-6 - EINECS: 202- 859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas = 460 mg/L 96h EPA
titanium dioxide	CAS: 13463-67- 7 - EINECS: 236-675-5 - INDEX: 022- 006-00-2	a) Aquatic acute toxicity: LC50 Fish > 100 mg/L 96
		a) Aquatic acute toxicity: EC50 Algae = 16 mg/L 72
		a) Aquatic acute toxicity: NOEC Algae = 5600 mg/L 72
		a) Aquatic acute toxicity: EC50 Daphnia > 100 mg/L 48
tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine	CAS: 112-57-2 - EINECS: 203- 986-2 - INDEX: 612-060-00-0	a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 420 mg/L 96h IUCLID
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 24.1 mg/L 48h IUCLID
		a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 2.1 mg/L 72h IUCLID

Persistence and degradability

N.A.

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Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. Disposal considerations

Safe handling and methods for disposal

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. Transport information

UN number

TDG-UN number: UN1760 ADR-UN number: 1760 DOT-UN Number: UN1760 IATA-Un number: 1760 IMDG-Un number: 1760

UN proper shipping name

TDG-Shipping Name: CORROSIVE LIQUID, N.O.S. (trisdimethylaminomethylphenol - bisdimethylaminomethylphenol) ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (trisdimethylaminomethylphenol - bisdimethylaminomethylphenol) DOT-Proper Shipping Name: Corrosive liquids, n.o.s. (trisdimethylaminomethylphenol - bisdimethylaminomethylphenol) IATA-Technical name: CORROSIVE LIQUID, N.O.S. (trisdimethylaminomethylphenol - bisdimethylaminomethylphenol) IMDG-Technical name: CORROSIVE LIQUID, N.O.S. (trisdimethylaminomethylphenol - bisdimethylaminomethylphenol)

Transport hazard class(es)

TDG-Class: 8
ADR-Class: 8

DOT-Hazard Class: 8

IATA-Class: 8
IMDG-Class: 8

Packing group

TDG-Packing Group: III ADR-Packing Group: III DOT Packing Group: III IATA-Packing group: III IMDG-Packing group: III

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: No

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

Not Applicable

Special precautions in connection with transport or conveyance

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TDG:

TDG Special provisions: 16 Department of Transportation (DOT):

DOT-Special Provision(s): IB3, T7, TP1, TP28

DOT-Label(s): 8 DOT-Symbol: N/A DOT-Cargo Aircraft: N/A DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A DOT-Non-Bulk: N/A

DOT-Limited Quantity threshold: 5 L

Road and Rail (ADR-RID): ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 852 IATA-Cargo Aircraft: 856

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A SW2

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 223 274

IMDG-EMS: F-A, S-B

15. Regulatory information

Canada - Federal regulations

DSL - Domestic Substances List

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

fatty acids, tall-oil, polymers with is listed in TSCA Section 8b bisphenol a, diethylenetriamine, epichlorohydrin and tetraethylenepentamine;

is listed in TSCA Section 8b tris(dimethylaminomethyl)phenol

3-aminomethyl-3,5,5is listed in TSCA Section 8b trimethylcyclohexylamine

polyoxypropylenediamine is listed in TSCA Section 8b benzyl alcohol is listed in TSCA Section 8b titanium dioxide is listed in TSCA Section 8b tetraethylenepentamine; 3,6,9-

triazaundecamethylenediamine

is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act Section 302 - Extremely Hazardous Substances:

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No substances listed

Section 304 - Hazardous substances:

No substances listed

Section 313 - Toxic chemical list:

No substances listed

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Substance(s) listed under CERCLA:

No substances listed

CAA - Clean Air Act

CAA listed substances:

benzyl alcohol is listed in CAA Section 112(b) - HON tetraethylenepentamine; 3,6,9- is listed in CAA Section 112(b) - HON triazaundecamethylenediamine

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

titanium dioxide Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

benzyl alcohol titanium dioxide

tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

benzyl alcohol titanium dioxide

tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

titanium dioxide

tetraethylenepentamine; 3,6,9-triazaundecamethylenediamine

16. Other information

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Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H302	Harmful if swallowed.
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.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.

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П412	narmini to aquatic life with long fasting effects.		
Code	Hazard class and hazard category	Description	
A.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4	
A.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4	
A.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B	
A.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C	
A.2/2	Skin Irrit. 2	Skin irritation, Category 2	
A.3/1	Eye Dam. 1	Serious eye damage, Category 1	
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A	
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1	
A.4.2/1A	Skin Sens. 1A	Skin Sensitization, Category 1A	

Legend to abbreviations and acronyms used in the safety data sheet:

Toxic to aquatic life with long lasting effects.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

Carcinogenicity, Category 2

Chronic (long-term) aquatic hazard - Category 2

Chronic (long-term) aquatic hazard - Category 3

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

 ${\sf GefStoffVO:}\ \ {\sf Ordinance}\ \ {\sf on}\ \ {\sf Hazardous}\ \ {\sf Substances},\ {\sf Germany}.$

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

Carc. 2

Aquatic Chronic 2

Aquatic Chronic 3

H411

H412

A.6/2

CAN-HAE/C2

CAN-HAE/C3

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity. WGK: German Water Hazard Class.

KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 5. FIRE-FIGHTING MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
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