Safety Data Sheet PLANIGROUT 350 NA / B

Safety Data Sheet dated: 02/14/2024 - version 7

Date of first edition: 02/28/2018



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: PLANIGROUT 350 NA / B

Trade code: 9004682

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy products

Restrictions on use: Not available

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Phone: 954-246-8888

Responsable: RDProductSafety@mapei.com

Emergency 24 hour numbers:

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

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

2. HAZARD(S) IDENTIFICATION







Classification of the chemical

Flammable Liquids — Category 4 Combustible liquid Acute toxicity (oral), Category 4 Harmful if swallowed.

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

Serious eye damage, Category 1 Causes serious eye damage.

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

Specific target organ toxicity following repeated exposure,

Category 2

May cause damage to organs through prolonged or repeated exposure

if inhaled, in contact with skin and if swallowed.

Chronic (long term) aquatic hazard, category 3 Harmful to aquatic life with long lasting effects.

Label elements

Hazard pictograms and Signal Word



Danger

Hazard statements

Combustible liquid H227 Harmful if swallowed. H302

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and

if swallowed.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

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

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

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P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P301+P312	IF SWALLOWED: Call a POISON CENTER if you feel unwell.		
P301+P330+P33 1	3 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.		
P303+P361+P35 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 3			
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P305+P351+P3 8	3 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P310	Immediately call a POISON CENTER.		
P314	Get medical advice/attention if you feel unwell.		
P321	Specific treatment (see supplementary instructions on this label)		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.		
P363	Wash contaminated clothing before reuse.		
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.		
P403+P235	Store in a well-ventilated place. Keep cool.		
P405	Store locked up.		
P501	Dispose of contents/container in accordance with applicable regulations.		
Ingredient(s) with unknown acute toxicity:			

Contaminated work clothing must not be allowed out of the workplace.

None

Hazards not otherwise classified identified during the classification process:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

P272

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification
25-50 %	polyamido amine; Fatty acids, tall-oil, reaction products with tetraethylenepentamine	CAS:68953-36-6 EC:273-201-6	Skin Corr. 1C, H314; Eye Dam. 1, H318; Skin Sens. 1, H317
10-20 %	benzyl alcohol	CAS:100-51-6 EC:202-859-9 Index:603-057-00-5	Acute Tox. 4, H302; Eye Irrit. 2A, H319
10-20 %	4,4'-methylenebis(cyclohexylamine)	CAS:1761-71-3 EC:217-168-8	Acute Tox. 4, H302; STOT RE 2, H373; Skin Corr. 1B, H314; Skin Sens. 1, H317
10-20 %	1,2-diaminocyclohexane; Cyclohex-1,2-ylenediamine	CAS:694-83-7 EC:211-776-7	Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Eye Dam. 1, H318; STOT SE 3, H335; Skin Corr. 1A, H314
5-10 %		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 %	Salicylic acid	CAS:69-72-7 EC:200-712-3 Index:607-732-00-5	Acute Tox. 4, H302; Eye Dam. 1, H318; Repr. 2, H361
1-2.5 %	Reaction products of 4,4'- methylenebis(cyclohexylamine) and 2,2'- [(1-methylethylidene)bis(4,1- phenyleneoxymethylene)]bisoxirane	CAS:38294-67-6 EC:701-407-2	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Corr. 1C, H314; Skin Sens. 1A, H317

4. FIRST AID MEASURES

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Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of safely.

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

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 immediately.

Protect uninjured eye.

In case of Ingestion:

Give nothing to eat or drink.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Erythema

Indication of any immediate medical attention and special treatment needed

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

Extinguishing media

Suitable extinguishing media:

In case of fire, use a dry powder fire extinguisher to extinguish.

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not Relevant Oxidizing properties: Not Relevant

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.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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.

Use localized ventilation system.

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

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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.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Store cool and dry.

Always keep in a well ventilated place.

Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

Store in a well-ventilated place. Keep cool.

Avoid direct exposure to sunlight.

Opened containers must be carefully resealed and kept upright to prevent leakage.

Flammable mixtures may accumulate within the headspace of containers at room temperature.

Storage at higher temperatures requires an appropriate evaluation of preventive and protection measures to be adopted.

Storage temperature must be defined on the basis of a proper risk evaluation. Refer to other sections for additional information.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Country	Occupational Exposure Limit
benzyl alcohol CAS: 100-51-6	MAK	GERMANY	Long Term: 22 mg/m3 - 5 ppm
	MAK	SWITZERLAN D	Long Term: 22 mg/m3 - 5 ppm

Predicted No Effect Concentration (PNEC) values

Salicylic acid Exposure Route: Fresh Water; PNEC Limit: 0.2 mg/l

CAS: 69-72-7

Exposure Route: Intermittent release; PNEC Limit: 1 mg/l Exposure Route: Marine water; PNEC Limit: 0.02 mg/l

Exposure Route: Freshwater sediments; PNEC Limit: 1.42 mg/kg Exposure Route: Marine water sediments; PNEC Limit: 0.14 mg/kg

Exposure Route: Soil; PNEC Limit: 0.16 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 162 mg/l

Derived No Effect Level (DNEL) values

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

Worker Industry: 16 mg/m3; Consumer: 0.2 mg/m3

CAS: 69-72-7

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 4 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects

Worker Industry: 2 mg/kg; Consumer: 1 mg/kg

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

Consumer: 4 mg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Consumer: 1 mg/kg

Appropriate engineering controls: Not available

Individual protection measures

Eye protection:

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

Protection for skin:

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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: liquid Amber

Odour: Like: Amines

Odour threshold: Not Relevant

pH: 11.00

Melting point / freezing point: Not Relevant

Initial boiling point and boiling range: 100 °C (212 °F)

Flash point: 70 °C (158 °F) Evaporation rate: Not Relevant

Upper/lower flammability or explosive limits: Not Relevant

Vapour density: Not Relevant Vapour pressure: Not Relevant Relative density: 0.98 g/cm3 Solubility in water: partly soluble Solubility in oil: Not Relevant

Partition coefficient (n-octanol/water): Not Relevant

Auto-ignition temperature: Not Relevant Decomposition temperature: Not Relevant

Viscosity: Not Relevant

Explosive properties: Not Relevant Oxidizing properties: Not Relevant Solid/gas flammability: Not Relevant

Other information

Substance Groups relevant properties Not Relevant

Miscibility: Not Relevant Fat Solubility: Not Relevant Conductivity: Not Relevant

10. STABILITY AND REACTIVITY

Reactivity

Stable

Chemical stability

Data not available.

Possibility of hazardous reactions

It may generate flammable gases on contact with elementary metals (alkalis and alkaline earth) and powerful reducing agents.

It may generate toxic gases on contact with oxidising mineral acids, halogenated organic substances, organic peroxides and hydroperoxides, and powerful oxidising agents.

It may catch fire on contact with powerful oxidising agents.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

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Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity The product is classified: Acute toxicity (oral), Category 4(H302)

ATEmix - Oral: 1433.91 mg/kg bw

b) skin corrosion/irritation The product is classified: Skin corrosion, Category 1A(H314) 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 1(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

The product is classified: Specific target organ toxicity following repeated exposure, i) STOT-repeated exposure

Category 2(H373)

j) aspiration hazard Not classified

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

benzyl alcohol a) acute toxicity LD50 Oral Rat = 1230 mg/kg

LC50 Inhalation Rat = 8.8 mg/l 4h

4,4'a) acute toxicity LD50 Oral Rat 625 mg/kg

methylenebis

(cyclohexylamine)

LD50 Skin Rabbit = 2.11 mg/kg

LC50 Inhalation Mouse = 0.4 mg/l 4h

LD50 Oral Rat = 1000 mg/kg

1,2-diaminocyclohexane; a) acute toxicity

Cyclohex-1,2ylenediamine

LC50 Inhalation Rat > 3.23 mg/l 4h

LD50 Oral Rat = 4556 mg/kg

a) acute toxicity LD50 Skin Rabbit = 660 µL/kg

> LD50 Oral Rat = 2100 mg/kg LD50 Skin Rabbit = 660 µL/kg LD50 Oral Rat = 3990 mg/kg

Salicylic acid a) acute toxicity LC50 Inhalation Rat > 0.9 mg/l 1h

> LD50 Oral Rat = 891 mg/kg LD50 Skin Rabbit > 2000 mg/kg

LD50 Skin Rat > 2 g/kg

LC50 Inhalation Rat > 900 mg/m3 1h

LD50 Oral Rat = 891 mg/kg LD50 Skin Rat > 2 g/kg

Substance(s) listed on the IARC Monographs:

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

None

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

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

None

12. ECOLOGICAL INFORMATION

Toxicity

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

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

The product is classified: Chronic (long term) aquatic hazard, category 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data	
benzyl alcohol	CAS: 100-51-6 - EINECS: 202- 859-9 - INDEX: 603-057-00-5	a) Aquatic acute toxicity: EPA	LC50 Fish Pimephales promelas = 460 mg/L 96h
4,4'- methylenebis(cyclohexylamine)	CAS: 1761-71-3 - EINECS: 217- 168-8	a) Aquatic acute toxicity :	EC50 Daphnia = 6.84 mg/L 48
		a) Aquatic acute toxicity :	EC50 Algae mg/L 72
		a) Aquatic acute toxicity:	LC50 Fish > 100 mg/L 96
	CAS: 112-57-2 - EINECS: 203- 986-2 - INDEX: 612-060-00-0	a) Aquatic acute toxicity : IUCLID	LC50 Fish Poecilia reticulata = 420 mg/L 96h
		a) Aquatic acute toxicity: IUCLID	EC50 Daphnia Daphnia magna = 24.1 mg/L 48h
		a) Aquatic acute toxicity : mg/L 72h IUCLID	EC50 Algae Pseudokirchneriella subcapitata = 2.1
Salicylic acid	CAS: 69-72-7 - EINECS: 200- 712-3 - INDEX: 607-732-00-5	a) Aquatic acute toxicity:	EC50 Daphnia = 870 mg/L 48
		a) Aquatic acute toxicity :	LC50 Fish = 90 mg/L
		a) Aquatic acute toxicity :	EC50 Algae > 100 mg/L 72
		a) Aquatic acute toxicity :	EC50 Daphnia Daphnia magna = 870 mg/L 48h EPA

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

N.A.

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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.

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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

DOT-UN Number: UN2735 ADR-UN number: 2735 IATA-Un number: 2735 IMDG-Un number: 2735

UN proper shipping name

DOT-Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (polyamides - 4,4'-methylenebiscyclohexanamine) ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (polyamides - 4,4'-methylenebiscyclohexanamine) IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (polyamides - 4,4'-methylenebiscyclohexanamine) IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. (polyamides - 4,4'-methylenebiscyclohexanamine)

Transport hazard class(es)

DOT-Hazard Class: 8
ADR-Class: 8
IATA-Class: 8
IMDG-Class: 8

Packing group

DOT Packing Group: III ADR-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 MARPOL73/78 and the IBC Code

Not Applicable

Special precautions

Department of Transportation (DOT):

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

DOT-Label(s): 8

DOT-Symbol: N/A

DOT-Cargo Aircraft: 60 L

DOT-Passenger Aircraft: 5 L

DOT-Bulk: 241 DOT-Non-Bulk: 203 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

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IMDG-Stowage Note: SG35 SGG18

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 223 274

IMDG-EMS: F-A, S-B

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

polyamido amine; Fatty acids, tall- is listed in TSCA Section 8b

oil, reaction products with tetraethylenepentamine

benzyl alcohol is listed in TSCA Section 8b 4,4'- is listed in TSCA Section 8b

methylenebis(cyclohexylamine)

1,2-diaminocyclohexane; is listed in TSCA Section 8b

Cyclohex-1,2-ylenediamine

is listed in TSCA Section 8b

Salicylic acid is listed in TSCA Section 8b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

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

is listed in CAA Section 112(b) - HON

Salicylic acid is listed in CAA Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

benzyl alcohol

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

benzyl alcohol

New Jersey Right to know

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

Canada - Federal regulations

DSL - Domestic Substances List

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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

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.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child if inhaled and in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
Cada	Harryd aless and barryd estarany

Code	Hazard class and hazard category	Description	
A.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4	
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4	
A.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4	
A.2/1A	Skin Corr. 1A	Skin corrosion, Category 1A	
A.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B	
A.2/1C	Skin Corr. 1C	Skin corrosion, Category 1C	
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	
A.7/2	Repr. 2	Reproductive toxicity, Category 2	
A.8/3	STOT SE 3	Specific target organ toxicity following single exposure, Category 3	
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, Category 2	
US-HAE/A1	Aquatic Acute 1	Acute aquatic hazard, category 1	
US-HAE/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1	
US-HAE/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2	
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Legend to abbreviations and acronyms used in the safety data sheet:

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

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.

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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).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

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

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

DNEL: Derived No Effect Level.

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
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

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