Safety Data Sheet ULTRABOND G-19 PART A

Safety Data Sheet dated: 06/16/2021 - version 9

Date of first edition: 05/13/2015



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: ULTRABOND G-19 PART A

Trade code: 2273

Recommended use of the chemical and restrictions on use

Recommended use: Polyurethane-based adhesive

Restrictions on use: N.A.

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

Responsible: 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

Flam. Liq. 3 Flammable liquid and vapour.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2A Causes serious eye irritation.

Skin Sens. 1B May cause an allergic skin reaction.

Repr. 2 Suspected of damaging fertility or the unborn child.

Aquatic Acute 3 Harmful to aquatic life.

Aquatic Chronic 2 Toxic to aquatic life with long lasting effects.

Label elements

Pictograms and Signal Words





Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H402 Harmful to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

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P243	Take precautionary measures against static discharge.			
P260	Do not breathe dust or mist.			
P264	Wash skin thoroughly after handling.			
P270	Do not eat, drink or smoke when using this product.			
P272	Contaminated work clothing should not be allowed out of the workplace.			
P273	Avoid release to the environment.			
P280	Wear protective gloves/protective clothing/eye protection/face protection.			
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.			
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P308+P313	IF exposed or concerned: Get medical advice/attention.			
P321	Specific treatment (see supplementary instructions on this label).			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P362+P364	Take off contaminated clothing and wash it before reuse.			
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.			
P391	Collect spillage.			
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:				

None

P242

Hazards not otherwise classified identified during the classification process:

Use only non-sparking tools.

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. 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 silica dust hazard)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

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

List of components

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
10-20 %	Bisphenol A epoxy resin	CAS:25085-99-8	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Aquatic Chronic 2, H411; Skin Sens. 1B, H317	
2.5-5 %	ETHYLACETATE	CAS:141-78-6	Flam. Liq. 2, H225; STOT SE 3, H336	
1-2.5 %	Silica Sand	CAS:14808-60-7	STOT RE 1, H372; Carc. 1A, H350	
0.25-0.49 %	4-NONYLPHENOL, BRANCHED	CAS:84852-15-3	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Repr. 2, H361	

4. FIRST AID MEASURES

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.

ULTRABOND G-19 PART A Date 6/29/2021 Production Name Page n. 2 of 10 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:

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

In case of Inhalation:

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

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Ervthema

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:

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: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

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 all sources of ignition.

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.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

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Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Note
ETHYLACETATE	OSHA			1400	400				
	ACGIH				400				eye and upper respiratory tract irritation;
	MAK	GERMANY		750	200				
	ACGIH				400				eye and upper respiratory tract irritation
	MAK	AUSTRIA		734	200	1468	400		
	MAK	SWITZERLAND		730	200				
Silica Sand	ACGIH			0,025					A2 - Suspected Human Carcinogen;lung cancer;pulmonary fibrosis;

Appropriate engineering controls: N.A. **Individual protection measures**

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 white

Odour: Characteristic

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: 37 °C (99 °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: 1.51 g/cm3 Solubility in water: Insoluble Solubility in oil: No data available

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

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

Viscosity: No data available

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

It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

Possibility of hazardous reactions

None.

Conditions to avoid

Avoid accumulating electrostatic charge.

Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

ETHYLACETATE a) acute toxicity LD50 Skin Rabbit > 20 ml/kg

LC50 Inhalation Mouse = 1500 ppm 4h

LD50 Oral Rat = 5620 mg/kg

LD50 Skin Rabbit > 18000,00000 mg/kg

LD50 Skin Rabbit > 18000 mg/kgLC50 Inhalation Rat = 4000 ppm 4h

LD50 Oral Rat = 5620 mg/kg

LC50 Inhalation Rat = 4000 ppm 4h

Silica Sand a) acute toxicity LD50 Oral Rat = 500 mg/kg

4-NONYLPHENOL, a) acute toxicity LD50 Oral Rat 1300 mg/kg BRANCHED

LD50 Skin Rabbit > 2000 mg/kg LD50 Skin Rabbit = 2000 mg/kg LD50 Oral Rat = 1300 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity

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- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

Silica Sand Group 1

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

Silica Sand

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

Silica Sand

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

Silica Sand

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment. Eco-Toxicological Information:

List of components with eco-toxicological properties

List of components with eco-toxicological properties				
Component	Ident. Numb.	Ecotox Infos		
ETHYLACETATE	CAS: 141-78-6	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 220 mg/L 96h EPA		
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 484 mg/L 96h IUCLID		
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 560 mg/L 48h EPA		
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 352 mg/L 96h EPA		
Silica Sand	CAS: 14808-60-7	a) Aquatic acute toxicity: LC50 carp > 10000,00000 mg/L 72h		
4-NONYLPHENOL, BRANCHED	CAS: 84852-15-3	LC50 Fish Pimephales promelas 0,135 mg/L 96h ,,Holcombe, G.W., Phipps, G.L., Knuth, M.L. and Felhaber, T. (1984) Environ. Pollut. (Series A) 35, 367-381		
		LC100 Fish Leuciscus idus 1,1 mg/L 48h ,,Huels study, 1988 (unpublished)		
		LC50 Fish Leuciscus idus 0,95 mg/L 48h ,,Huels study, 1988 (unpublished)		
		LOEC Fish Pimephales promelas 14 μ g/L 33d ,,Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fath		
		NOEC Fish Pimephales promelas 7,4 µg/L 33d ,,Chemical Manufacturers Association (1991) Two environmental effects 4-Nonylphenol final reports 1. Chronic toxicity of Nonylphenol to the Mysid, Mysidopsis bahia: EnviroSystems Study Number 8977-CMA 2. Early life stage toxicity of Nonylphenol to the fath		
		EC100 Daphnia Daphnia magna > 400 $\mu g/L$ 48h ,,Huels report No. DK-522, 1992 (unpublished)		
		EC0 Daphnia Daphnia magna < 100 $\mu g/L$ 48h ,,Huels report No. DK-522, 1992 (unpublished)		
		EC50 Daphnia Daphnia magna 140 $\mu g/L$ 48h ,,Huels report No. DK-522, 1992 (unpublished)		
		LOEC Daphnia Daphnia magna > 100 $\mu g/L$ 21d ,,Huels report No. DL-143, 1992 (unpublished)		
		NOEC Daphnia Daphnia magna 0,024 mg/L 21d ICI PLC (1991) Nonyl Phenol: Chronic Toxicity to Daphnia Magna Report No: BLS1319/B (Interim) BL4176/B (Final)		
		EC90 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 3,2 mg/L 72h Huels study (unpublished)		

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EC10 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 0.5 mg/L 72h Huels study (unpublished)

EC50 Algae Scenedesmus subspicatus (Desmodesmus subspicatus) 1,3 mg/L 72h Huels study (unpublished)

a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 0.135 mg/L 96h IUCLID

a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 0,1351 mg/L 96h

a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 0.14 mg/L 48h IUCLID

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 0,36 mg/L 96h EPA

a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata 0,16 mg/L 72h EPA

a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 1,3 mg/L 72h IUCLID

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.

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

ADR-UN number: 1993 DOT-UN Number: UN1993 IATA-Un number: 1993 IMDG-Un number: 1993

UN proper shipping name

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (ETHYLACETATE - Bisphenol A epoxy resin) DOT-Proper Shipping Name: Flammable liquids, n.o.s. (ETHYLACETATE - Bisphenol A epoxy resin) IATA-Technical name: FLAMMABLE LIQUID, N.O.S. (ETHYLACETATE - Bisphenol A epoxy resin) IMDG-Technical name: FLAMMABLE LIQUID, N.O.S. (ETHYLACETATE - Bisphenol A epoxy resin)

Transport hazard class(es)

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ADR-Class: 3

DOT-Hazard Class: 3

IATA-Class: 3
IMDG-Class: 3

Packing group

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

Environmental hazards

Marine pollutant: Yes Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): B1, B52, IB3, T4, TP1, TP29

DOT-Label(s): 3
DOT-Symbol: N/A
DOT-Cargo Aircraft: N/A
DOT-Passenger Aircraft: N/A

DOT-Bulk: N/A
DOT-Non-Bulk: N/A
Road and Rail (ADR-RID):
ADR-Label: 3

ADR-Hazard identification number: 30

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

Air (IATA):

IATA-Passenger Aircraft: 355 IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 223 274 955

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: F-E, S-E IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

Bisphenol A epoxy resin is listed in TSCA Section 8b ETHYLACETATE is listed in TSCA Section 8b Silica Sand is listed in TSCA Section 8b

4-NONYLPHENOL, BRANCHED is listed in TSCA Section 8b Section 8a - PAIR Section 5a -

SNUR Section 12b

SARA - Superfund Amendments and Reauthorization Act

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Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

ETHYLACETATE

Section 313 - Toxic chemical list:

4-NONYLPHENOL, BRANCHED

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

ETHYLACETATE Reportable quantity: 5000 pounds

CAA - Clean Air Act

CAA listed substances:

No substances listed

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

Silica Sand Listed as carcinogen

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

ETHYLACETATE

Silica Sand

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

ETHYLACETATE

Silica Sand

New Jersey Right to know

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

ETHYLACETATE

Silica Sand

Canada - Federal regulations

DSL - Domestic Substances List

DSL Inventory:

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL Inventory:

No substances listed

NPRI - National Pollutant Release Inventory

Substances listed in NPRI:

No substances listed

16. OTHER INFORMATION

and local laws.

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Additional classification information

NFPA Health: 1 = Slight

NFPA Flammability: 3 = Flammable liquid

NFPA Reactivity: 0 = Minimal NFPA Special Risk: N.A.



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,

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.

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Code	Description
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
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.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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.

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
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION

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Safety Data Sheet ULTRABOND G-19 PART B

Safety Data Sheet dated: 06/16/2021 - version 8

Date of first edition: 05/13/2015



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: ULTRABOND G-19 PART B

Trade code: 2270

Recommended use of the chemical and restrictions on use

Recommended use: Hardener for epoxy-polyurethane based adhesives or sealants

Restrictions on use: N.A.

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

Responsible: 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

Skin Corr. 1B Causes severe skin burns and eye damage.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1A May cause an allergic skin reaction.

Repr. 1B May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.

Aquatic Acute 3 Harmful to aquatic life.

Aquatic Chronic 1 Very toxic to aquatic life with long lasting effects.

Label elements

Pictograms and Signal Words



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360 May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.

H402 Harmful to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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P303+P361+P353	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+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a doctor.
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.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

Ingredient(s) with unknown acute toxicity:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

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

List of components

Concentration (% w/w)	Name	Ident. Numb.	Classification	Registration Number
25-50 %	DIISOPROPYLNAPHTHALENE	CAS:38640-62-9	Asp. Tox. 1, H304; Aquatic Chronic 1, H410	
20-25 %	2,4,6-Tri(dimethylaminomethyl)pheno	ol CAS:90-72-2	Skin Corr. 1B, H314; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	2
10-20 %	BISPHENOL A, EPICHLOROHYDRIN, TRIETHYLENETETRAMINE POLYMER	CAS:38294-69-8	Acute Tox. 4, H312; Skin Corr. 1B, H314; Aquatic Chronic 3, H412; Skin Sens. 1, H317	
10-20 %	Isophorone diamine	CAS:2855-13-2	Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412; Acute Tox. 4, H302; Acute Tox. 4, H312	
5-10 %	SALICYLIC ACID	CAS:69-72-7	Acute Tox. 4, H302; Eye Dam. 1, H318	
2.5-5 %	Bis[(dimethylamino)methyl]phenol	CAS:71074-89-0	Skin Corr. 1B, H314	
1-2.5 %	Aminoethylpiperazine	CAS:140-31-8	Acute Tox. 3, H311; Skin Corr. 1B, H314; Skin Sens. 1, H317; Eye Dam. 1, H318; Repr. 1B, H360	
1-2.5 %	TETRAETHYLENEPENTAMINE	CAS:112-57-2	Skin Sens. 1, H317; Aquatic Chronic 2, H411; Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Corr. 1B, H314	
1-2.5 %	PENTAETHYLENEHEXAMINE	CAS:4067-16-7	Acute Tox. 4, H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Skin Sens. 1, H317; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	

4. FIRST AID MEASURES

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.

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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:

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

In case of Inhalation:

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

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:

Water.

Carbon dioxide (CO2).

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: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

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.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Keep away from food, drink and feed.

Incompatible materials:

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None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No data available

Appropriate engineering controls: N.A. **Individual protection measures**

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: liquid Yellow

Odour: Like: Amines

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: 0.99 % w/w

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available Vapour pressure: No data available Relative density: 0.99 g/cm3 Solubility in water: Insoluble Solubility in oil: No data available

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

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

Viscosity: No data available

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.

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Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

DIISOPROPYLNAPHTHALE a) acute toxicity LD50 Skin Rat > 4500 mg/kg LC50 Inhalation Rat > 5,64000 mg/l 4h LD50 Oral Rat = 3900 mg/kg
2,4,6- a) acute toxicity LD50 Skin Rat = 1280 mg/kg Tri(dimethylaminomethyl) phenol

LD50 Oral Rat = 1000 mg/kg LD50 Skin Rat = 1280 mg/kg LD50 Oral Rat = 1200 mg/kg

Isophorone diamine a) acute toxicity LD50 Oral Rat = 1030 mg/kg

LD50 Skin Rat > 2000 mg/kgLD50 Oral Rat = 1030 mg/kg

SALICYLIC ACID a) acute toxicity LD50 Oral Rat = 891 mg/kg

LC50 Inhalation Rat > 900 mg/m3 1h

LD50 Skin Rat > 2 g/kg

Aminoethylpiperazine a) acute toxicity LD50 Skin Rabbit = $880 \mu L/kg$

LD50 Oral Rat = 2140 mg/kg LD50 Oral Rat = 2140 μ L/kg LD50 Skin Rabbit = 880 μ L/kg

TETRAETHYLENEPENTAMI a) acute toxicity NF

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

LD50 Oral Rat = 2100 mg/kg LD50 Skin Rabbit = $660 \mu L/kg$ LD50 Oral Rat = 3990 mg/kg

PENTAETHYLENEHEXAMIN a) acute toxicity LD50

LD50 Oral Rat = 1600 mg/kg

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

a) acute toxicity

b) skin corrosion/irritation

c) serious eye damage/irritation

d) respiratory or skin sensitisation

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- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

None

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

None

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

None

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 components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
DIISOPROPYLNAPHTHALENE	CAS: 38640-62-9	a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio > 1000 mg/L 96h
		a) Aquatic acute toxicity: LC50 Fish Oryzias latipes > 1000 mg/L 96h
Isophorone diamine	CAS: 2855-13-2	a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 14,60000 mg/L 48h EPA
		a) Aquatic acute toxicity: EC50 Daphnia magna = 42,00000 mg/L - 24hr
		a) Aquatic acute toxicity: EC50 Algae Desmodesmus subspicatus = 37 mg/L 72h IUCLID
		a) Aquatic acute toxicity: EC50 Algae idus = 110,00000 mg/L 96h
SALICYLIC ACID	CAS: 69-72-7	a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 870 mg/L 48h EPA
Aminoethylpiperazine	CAS: 140-31-8	a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 1950 mg/L 96h EPA
		a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata > 1000 mg/L 96h IUCLID
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss \geq 100 mg/L 96h IUCLID
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 32 mg/L 48h IUCLID
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 495 mg/L 72h IUCLID
TETRAETHYLENEPENTAMINE	CAS: 112-57-2	a) Aquatic acute toxicity: LC50 Fish Poecilia reticulata = 420 mg/L 96h IUCLID
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = $24,1 \text{ mg/L } 48h \text{ IUCLID}$
		a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = $2,1$ mg/L 72h IUCLID

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

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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.

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

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

UN proper shipping name

ADR-Shipping Name: CORROSIVE LIQUID, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol - DIISOPROPYLNAPHTHALENE) DOT-Proper Shipping Name: Corrosive liquids, n.o.s. (2,4,6-Tri(dimethylaminomethyl)phenol - DIISOPROPYLNAPHTHALENE) IATA-Technical name: CORROSIVE LIQUID, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol - DIISOPROPYLNAPHTHALENE) IMDG-Technical name: CORROSIVE LIQUID, N.O.S. (2,4,6-Tri(dimethylaminomethyl)phenol - DIISOPROPYLNAPHTHALENE)

Transport hazard class(es)

ADR-Class: 8

DOT-Hazard Class: 8

IATA-Class: 8 IMDG-Class: 8

Packing group

ADR-Packing Group: II DOT-Packing group: II IATA-Packing group: II IMDG-Packing group: II

Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Special precautions

Department of Transportation (DOT):

DOT-Special Provision(s): B2, IB2, T11, TP2, TP27

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

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Road and Rail (ADR-RID) :

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Transport category (Tunnel restriction code): 2 (E)

Air (IATA):

IATA-Passenger Aircraft: 851 IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisioning: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category B SW2

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 274

IMDG-Page: N/A IMDG-Label: N/A IMDG-EMS: F-A, S-B IMDG-MFAG: N/A

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

DIISOPROPYLNAPHTHALENE is listed in TSCA Section 8b 2,4,6- is listed in TSCA Section 8b

Tri(dimethylaminomethyl) phenol

BISPHENOL A, is listed in TSCA Section 8b

EPICHLOROHYDRIN, TRIETHYLENETETRAMINE

POLYMER

Isophorone diamine is listed in TSCA Section 8b SALICYLIC ACID is listed in TSCA Section 8b Aminoethylpiperazine is listed in TSCA Section 8b TETRAETHYLENEPENTAMINE is listed in TSCA Section 8b PENTAETHYLENEHEXAMINE 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:

SALICYLIC ACID is listed in CAA Section 112(b) - HON TETRAETHYLENEPENTAMINE is listed in CAA Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

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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:

Aminoethylpiperazine

TETRAETHYLENEPENTAMINE

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

Aminoethylpiperazine

TETRAETHYLENEPENTAMINE

New Jersey Right to know

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

Isophorone diamine

Aminoethylpiperazine

TETRAETHYLENEPENTAMINE

Canada - Federal regulations

DSL - Domestic Substances List

DSL Inventory:

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL Inventory:

No substances listed

NPRI - National Pollutant Release Inventory

Substances listed in NPRI:

No substances listed

16. OTHER INFORMATION

Safety Data Sheet dated: 6/16/2021 - version 8

Additional classification information

NFPA Health: 3 = Serious

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 1 = Slight NFPA Special Risk: N.A.



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.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H360	May damage fertility or the unborn child if inhaled, in contact with skin and if swallowed.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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.

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.

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
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 16. OTHER INFORMATION

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