

Safety Data Sheet

ROOFLEX ASPHALT PRIMER

Safety Data Sheet dated: 01/19/2023 - version 5

Date of first edition: 10/14/2020

1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: ROOFLEX ASPHALT PRIMER

Trade code: 6PG1001.JPY

Recommended use of the chemical and restrictions on use

Recommended use: Bituminous adhesive solvent based

Restrictions on use: Not available

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

Company: Polyglass U.S.A. Inc.

1111 West Newport Center Drive

33442 - Deerfield Beach - FL - USA

Phone: +1 866-222-9782

Responsible: info@polyglass.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 3

Flammable liquid and vapour.

Germ cell mutagenicity, Category 1B

May cause genetic defects if inhaled, in contact with skin and if swallowed.

Carcinogenicity, Category 1B

May cause cancer if inhaled, in contact with skin and if swallowed.

Specific target organ toxicity following repeated exposure, Category 1

Causes damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

Label elements

Pictograms and Signal Words



Danger

Hazard statements

- H226 Flammable liquid and vapour.
- H340 May cause genetic defects if inhaled, in contact with skin and if swallowed.
- H350 May cause cancer if inhaled, in contact with skin and if swallowed.
- H372 Causes damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

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.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.

| | |
|----------------|---|
| P260 | Do not breathe mist/vapours/spray. |
| P264 | Wash skin thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| 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. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P314 | Get medical advice/attention if you feel unwell. |
| 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:

None

Hazards not otherwise classified identified during the classification process:

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not Relevant

Mixtures

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

List of components

| Qty | Name | Ident. Numb. | Classification | Registration Number |
|---------|--|---|--|---------------------|
| 25-50 % | asphalt; bitumen | CAS:8052-42-4 EC:232-490-9 | Carc. 2, H351 | |
| 25-50 % | petroleum hydrocarbons; Stoddard Solvent | CAS:8052-41-3 EC:232-489-3 Index:649-345-00-4 | Flam. Liq. 3, H226; STOT RE 1, H372; Asp. Tox. 1, H304; Muta. 1B, H340; Carc. 1B, H350 | |
| 1-2.5 % | 1,2,4-trimethyl-benzene; pseudocumene | CAS:95-63-6 EC:202-436-9 Index:601-043-00-3 | Flam. Liq. 3, H226; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Aquatic Chronic 2, H411; Acute Tox. 4, H332 | |

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose of safely.

In case of eyes contact:

- Wash immediately with water.

In case of Ingestion:

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

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

Not available

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: 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 all sources of ignition.
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.
Exercise the greatest care when handling or opening the container.
Use localized ventilation system.
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

Handle in a well ventilated place.
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.
Avoid accumulating electrostatic charge.
Keep away from food, drink and feed.
Electrical installations / working materials must comply with the technological safety standards.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.
Safety electric system.

Storage temperature: Not available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Community Occupational Exposure Limits (OEL)

| | OEL Type | Country | Occupational Exposure Limit |
|---|--------------|-------------|--|
| asphalt; bitumen CAS: 8052-42-4 | ACGIH | | Long Term: 0.5 mg/m ³ A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free); eye and upper respiratory tract irritation (fume); |
| | MAK ACGIH | GERMANY | Long Term: 1.5 mg/m ³ Long Term: 0.5 mg/m ³ A4 - Not Classifiable as a Human Carcinogen (fume, coal tar-free); eye and upper respiratory tract irritation (fume) |
| | MAK | SWITZERLAND | Long Term: 10 mg/m ³ |
| petroleum hydrocarbons; Stoddard Solvent CAS: 8052-41-3 | OSHA | | Long Term: 2900 mg/m ³ - 500 ppm |
| | ACGIH | | Long Term: 100 ppm CNS impairment; eye, kidney and skin damage; nausea; |
| | ACGIH | | Long Term: 100 ppm CNS impairment; eye, kidney and skin damage; nausea |
| 1,2,4-trimethyl-benzene; pseudocumene CAS: 95-63-6 | EU | | Long Term: 100 mg/m ³ - 20 ppm Behaviour Indicative |
| | MAK | GERMANY | Long Term: 100 mg/m ³ - 20 ppm |
| | MAK | AUSTRIA | Long Term: 100 mg/m ³ - 20 ppm; Short Term: 150 mg/m ³ - 30 ppm |

Biological limit values

asphalt; bitumen
CAS: 8052-42-4
Biological Indicator: 1-Hydroxypyrene; Sampling Period: End of turn; End of working week
Medium: Urine
Remark: Not Quantitative

Biological Indicator: 1-Hydroxypyrene; Sampling Period: End of turn; End of working week
Value: 2.5 µg/L; Medium: Urine
Remark: Background

Biological Indicator: 3-Hydroxybenzo(a)pyrene with hydrolysis; Sampling Period: End of turn; End of working week
Medium: Urine
Remark: Not Quantitative

Appropriate engineering controls: Not available

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 $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Nitrile rubber - NBR: thickness $\geq 0,35\text{mm}$; breakthrough time $\geq 480\text{min}$.

Butyl rubber - IIR: thickness $\geq 0,5\text{mm}$; breakthrough time $\geq 480\text{min}$.

Fluorinated rubber - FKM: thickness $\geq 0,4\text{mm}$; breakthrough time $\geq 480\text{min}$.

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 Black

Odour: Like: Hydrocarbons, aliphatic

Odour threshold: No data available

pH: No data available
Melting point / freezing point: No data available
Initial boiling point and boiling range: 355 °C (671 °F)
Flash point: 40.5 °C (104.9 °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: 1.10 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: data not applicable

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

No data available
It may generate dangerous reactions (See subsections below)

Chemical stability

It may generate dangerous reactions (See subsections below)

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

Heating.
Avoid accumulating electrostatic charge.

Incompatible materials

Data not available.
Avoid contact with combustible materials. The product could catch fire.

Hazardous decomposition products

Data not available.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

- | | |
|--------------------------------------|--|
| a) acute toxicity | Not classified Based on available data, the classification criteria are not met |
| b) skin corrosion/irritation | Not classified Based on available data, the classification criteria are not met |
| c) serious eye damage/irritation | Not classified Based on available data, the classification criteria are not met |
| d) respiratory or skin sensitisation | Not classified Based on available data, the classification criteria are not met |
| e) germ cell mutagenicity | The product is classified: Germ cell mutagenicity, Category 1B(H340) |
| f) carcinogenicity | The product is classified: Carcinogenicity, Category 1B(H350) |
| g) reproductive toxicity | Not classified 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 | The product is classified: Specific target organ toxicity following repeated exposure, Category 1(H372) |
| j) aspiration hazard | Not classified Based on available data, the classification criteria are not met |

Toxicological information on main components of the mixture:

| | | |
|---|-------------------|---|
| asphalt; bitumen | a) acute toxicity | LD50 Skin Rabbit > 2000 mg/kg LD50 Oral Rat > 5000 mg/kg LC50 Inhalation Rat > 94.4 mg/m ³ 4.5h LD50 Oral Rat > 5000 mg/kg |
| petroleum hydrocarbons; Stoddard Solvent | a) acute toxicity | LD50 Skin Rabbit > 3000 mg/kg LC50 Inhalation Rat > 5.5 mg/l 4h |
| 1,2,4-trimethyl-benzene; pseudocumene | a) acute toxicity | LD50 Skin Rabbit > 3160 mg/kg LC50 Inhalation Rat = 18 g/m ³ 4h LD50 Oral Rat = 3280 mg/kg LC50 Inhalation Rat = 18 g/m ³ 4h |

Substance(s) listed on the IARC Monographs:

asphalt; bitumen Group 2B

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

asphalt; bitumen

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

asphalt; bitumen

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

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components

| Component | Ident. Numb. | Ecotox Data |
|--|--|---|
| 1,2,4-trimethyl-benzene; pseudocumene | CAS: 95-63-6 - EINECS: 202- 436-9 - INDEX: 601-043-00-3 | G : LC50 Avian Colinus virginianus > 6500 ppm 5d IUCLID G : LD50 Avian Colinus virginianus > 2250 mg/kg IUCLID a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 7.19 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 6.14 mg/L 48h 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**

DOT-UN Number: NA1993

ADR-UN number: 1993

IATA-Un number: 1993

IMDG-Un number: 1993

UN proper shipping name

DOT-Proper Shipping Name: COMBUSTIBLE LIQUID, N.O.S. (solvent naphtha - 1,2,4-trimethyl-benzene; pseudocumene)
(Not regulated for US DOT if shipped by road in non-bulk containers of 119 gallons or less)

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (having a flash-point below 23 °C and viscous according to 2.2.3.1.4) (vapour pressure at 50 °C more than 110 kPa, boiling point of more than 35 °C) (solvent naphtha - 1,2,4-trimethyl-benzene; pseudocumene)

IATA-Technical name: FLAMMABLE LIQUID, N.O.S. (solvent naphtha - 1,2,4-trimethyl-benzene; pseudocumene)

IMDG-Technical name: FLAMMABLE LIQUID, N.O.S. (solvent naphtha - 1,2,4-trimethyl-benzene; pseudocumene)

Transport hazard class(es)

DOT-Hazard Class: COMBUSTIBLE

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

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): 148, IB3, T1, TP1

DOT-Label(s): NONE

DOT-Symbol: D G

DOT-Cargo Aircraft: 220 L

DOT-Passenger Aircraft: 60 L

DOT-Bulk: 241

DOT-Non-Bulk: 203

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 Provisions: A3

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 223 274 955

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-EMS: F-E, S-E

IMDG-MFAG: N/A

Pursuant to 49 CFR 173.120(b)(2) and 49 CFR 173.150(f) a flammable liquid with a flash point at or above 100 degrees Fahrenheit may be reclassified as a combustible liquid for transportation within the U.S. by motor vehicle or rail only.

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:

asphalt; bitumen is listed in TSCA Section 8b

petroleum hydrocarbons; Stoddard Solvent is listed in TSCA Section 8b

1,2,4-trimethyl-benzene; pseudocumene 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:

1,2,4-trimethyl-benzene; pseudocumene

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

No substances listed

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:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

asphalt; bitumen
petroleum hydrocarbons; Stoddard Solvent
1,2,4-trimethyl-benzene; pseudocumene

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

asphalt; bitumen
petroleum hydrocarbons; Stoddard Solvent
1,2,4-trimethyl-benzene; pseudocumene

New Jersey Right to know

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

asphalt; bitumen
petroleum hydrocarbons; Stoddard Solvent
1,2,4-trimethyl-benzene; pseudocumene

Canada - Federal regulations

DSL - Domestic Substances List

DSL (Domestic Substances List)

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL (Non Domestic Substances List)

No substances listed

NPRI - National Pollutant Release Inventory

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

No substances listed

16. OTHER INFORMATION

Safety Data Sheet dated: 1/19/2023 - version 5

Additional classification information

NFPA Health: 1 = Slight
NFPA Flammability: 2 = Combustible 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, 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 |
|-------------|---|
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H351 | Suspected of causing cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |

| Code | Hazard class and hazard category | Description |
|-------------|---|---|
| A.1/4/Inhal | Acute Tox. 4 | Acute toxicity (inhalation), Category 4 |

| | | |
|-----------|-------------------|--|
| A.10/1 | Asp. Tox. 1 | Aspiration hazard, Category 1 |
| A.2/2 | Skin Irrit. 2 | Skin irritation, Category 2 |
| A.3/2A | Eye Irrit. 2A | Eye irritation, Category 2A |
| A.5/1B | Muta. 1B | Germ cell mutagenicity, Category 1B |
| A.6/1B | Carc. 1B | Carcinogenicity, Category 1B |
| A.6/2 | Carc. 2 | Carcinogenicity, Category 2 |
| A.8/3 | STOT SE 3 | Specific target organ toxicity following single exposure, Category 3 |
| A.9/1 | STOT RE 1 | Specific target organ toxicity following repeated exposure, Category 1 |
| B.6/3 | Flam. Liq. 3 | Flammable Liquids — Category 3 |
| US-HAE/C2 | Aquatic Chronic 2 | Chronic (long term) aquatic hazard, category 2 |

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:

- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 14. TRANSPORT INFORMATION