

**Safety Data Sheet**

**POLYBRITE 95.1**

Safety Data Sheet dated: 09/08/2022 - version 1

Date of first edition: 09/08/2022

**1. Identification**

**Product identifier**

Mixture identification:

Trade name: POLYBRITE 95.1

Trade code: 5PS2201W5

**Recommended use and restrictions on use**

Recommended use: Coating

Restrictions on use: Not available

**Supplier's details**

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 phone number**

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887 Emergency Transport CANUTEC (Canada) 1-613-996-6666

**2. Hazard identification**



**Classification of the product**

Flammable Liquids — Category 3

Flammable liquid and vapour.

Skin irritation, Category 2

Causes skin irritation.

Eye irritation, Category 2A

Causes serious eye irritation.

Carcinogenicity, Category 2

Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

Specific target organ toxicity following single exposure, Category 3

May cause respiratory irritation.

Aspiration hazard, Category 1

May be fatal if swallowed and enters airways.

Skin Sensitization, Category 1

May cause an allergic skin reaction.

**Label elements**

**Pictograms and Signal Words**



Danger

**Hazard statements:**

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.

P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing mist/vapours/spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.
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.
P312	Call a POISON CENTER if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label)
P331	Do NOT induce vomiting.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

**Other hazards**

None

**Ingredient(s) with unknown acute toxicity**

None

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

**3. Composition/information on ingredients**

**Substances**

Not Relevant

**Mixtures**

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

**List of components**

<b>Concentration (w/w) (%)</b>	<b>Name</b>	<b>Ident. Numb.</b>	<b>Classification</b>	<b>Registration Number</b>
10-20 %	petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light	CAS:64742-47-8 EC:265-149-8 Index:649-422-00-2	Asp. Tox. 1, H304	
10-20 %	titanium dioxide; Dioxotitanium	CAS:13463-67-7 EC:236-675-5 Index:022-006-00-2	Carc. 2, H351	
2.5-5 %	2-butanone, o,o',o''-(methylsilylidyne)trioxime; Methyltris(Methylethylketoxime) silane	CAS:22984-54-9 EC:245-366-4	Eye Irrit. 2A, H319; STOT RE 2, H373; Skin Sens. 1B, H317	
0.49-1 %	n-[3-(trimethoxysilyl)propyl] ethylenediamine; (2-	CAS:1760-24-3 EC:217-164-6	Flam. Liq. 4, H227; Skin Irrit. 2, H315; Eye Dam. 1, H318; Skin Sens. 1, H317	

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

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#### 4. First-aid measures

##### Description of necessary first-aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.
- If skin irritation or rash occurs: Get medical advice/attention.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.
- Remove contact lenses, if present and easy to do. Continue rinsing.

In case of Ingestion:

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

In case of Inhalation:

- In case of inhalation, consult a doctor immediately and show him packing or label.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

##### Most important symptoms/effects, acute and delayed

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

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

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

Treatment:

- (see paragraph 4.1)
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#### 5. Fire-fighting measures

##### Suitable and unsuitable extinguishing media

Suitable extinguishing media:

- In case of fire, use a dry powder fire extinguisher to extinguish.
- CO2 or Dry chemical fire extinguisher.

Unsuitable extinguishing media:

- None in particular.

##### Specific hazards arising from the hazardous product

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: Not available
- Explosive properties: Not available
- Oxidizing properties: Not available

##### Special protective equipment and precautions for fire-fighters

- Use suitable breathing apparatus.
  - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
  - Move undamaged containers from immediate hazard area if it can be done safely.
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#### 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.
- Do not use on extensive surface areas in premises where there are occupants.
- 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.
- Wash skin thoroughly after handling.
- See also section 8 for recommended protective equipment.

### Conditions for safe storage, including any incompatibilities

- 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

#### List of components with OEL value

	OEL Type	Country	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Note
petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light CAS: 64742-47-8	MAK	GERMANY	5	50			
	MAK	SWITZERLAND	350	50			
titanium dioxide; Dioxotitanium CAS: 13463-67-7	OSHA		15				
	ACGIH		10				A4 - Not Classifiable as a Human Carcinogen; lower respiratory tract irritation;
	MAK	GERMANY	0.3				
	MAK	AUSTRIA	5		10		
	MAK	SWITZERLAND	3				

### Appropriate engineering controls

Not available

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

### 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 respiratory protection where ventilation is insufficient or exposure is prolonged.

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: viscous liquid various

Odour: No data available

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: 45 °C (113 °F) Notes This product has been tested per ASTM D-4206. It was determined that it does not sustain combustion.

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: No data available

Solubility in water: No data available

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

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## 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.

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## 11. Toxicological information

### Information on toxicological effects

Likely routes of exposure:

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

### Toxicological information of the mixture:

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	The product is classified: Skin irritation, Category 2(H315)
c) serious eye damage/irritation	The product is classified: Eye irritation, Category 2A(H319)
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	The product is classified: Carcinogenicity, Category 2(H351)
g) reproductive toxicity	Not classified
	Based on available data, the classification criteria are not met
h) STOT-single exposure	The product is classified: Specific target organ toxicity following single exposure, Category 3(H335)
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	The product is classified: Aspiration hazard, Category 1(H304)

### Toxicological information on main components of the mixture:

petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light	a) acute toxicity	LD50 Skin Rabbit > 2000 mg/kg
		LD50 Oral Rat > 5000 mg/kg
		LC50 Inhalation Rat > 5.2 mg/l 4h
titanium dioxide; Dioxotitanium	a) acute toxicity	LD50 Oral Rat > 10000 mg/kg
n-[3-(trimethoxysilyl)propyl] ethylenediamine; (2-Aminoethyl)(3-(trimethoxysilyl)propyl) amine	a) acute toxicity	LD50 Oral Rat = 2413 mg/kg

### Substance(s) listed on the IARC Monographs:

titanium dioxide; Dioxotitanium Group 2B

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

titanium dioxide; Dioxotitanium

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

titanium dioxide; Dioxotitanium

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

None

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## 12. Ecological information

### Ecotoxicity

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

### List of Eco-Toxicological properties of the product

Not classified for environmental hazards

Based on available data, the classification criteria are not met

### List of components with eco-toxicological properties

<b>Component</b>	<b>Ident. Numb.</b>	<b>Ecotox Infos</b>
petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light	CAS: 64742-47-8 - EINECS: 265-149-8 - INDEX: 649-422-00-2	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 45 mg/L 96h IUCLID  a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 2.2 mg/L 96h EPA a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 2.4 mg/L 96h EPA

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**13. Disposal considerations**

**Safe handling and methods for disposal**

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

Methods of disposal:

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

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

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

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

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

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

Special precautions:

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

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

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

**14. Transport information**

**UN number**

TDG-UN number: UN1993

ADR-UN number: 1993

DOT-UN Number: UN1993

IATA-Un number: 1993

IMDG-Un number: 1993

**UN proper shipping name**

TDG-Shipping Name: FLAMMABLE LIQUID, N.O.S. (petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light)

ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light)

DOT-Proper Shipping Name: Flammable liquids, n.o.s. (petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light)

IATA-Technical name: FLAMMABLE LIQUID, N.O.S. (petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light)

IMDG-Technical name: FLAMMABLE LIQUID, N.O.S. (petroleum distillate, hydrotreated; Distillates (petroleum), hydrotreated light)

**Transport hazard class(es)**

TDG-Class: 3

ADR-Class: 3

DOT-Hazard Class: 3

IATA-Class: 3

IMDG-Class: 3

**Packing group**

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

**Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: Not Applicable  
DOT-RQ: Not Applicable

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

Not Applicable

**Special precautions in connection with transport or conveyance**

TDG:

TDG Special provisions: 16

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: -

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

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**15. Regulatory information**

**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

**USA - Federal regulations**

**TSCA - Toxic Substances Control Act**

**TSCA inventory:**



All the components are listed on the TSCA inventory

**TSCA listed substances:**

petroleum distillate, hydrotreated; is listed in TSCA Section 8b  
Distillates (petroleum),  
hydrotreated light

titanium dioxide; Dioxititanium is listed in TSCA Section 8b

2-butanone, o,o',o''- is listed in TSCA Section 8b  
(methylsilylidyne)trioxime;  
Methyltris(Methylethylketoxime)  
silane

n-[3- is listed in TSCA Section 8b  
(trimethoxysilyl)propyl]  
ethylenediamine; (2-  
Aminoethyl)(3-  
(trimethoxysilyl)propyl)amine

**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:**

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:**

titanium dioxide; Dioxititanium Listed as carcinogen

**Massachusetts Right to know**

**Substance(s) listed under Massachusetts Right to know:**

titanium dioxide; Dioxititanium

**Pennsylvania Right to know**

**Substance(s) listed under Pennsylvania Right to know:**

titanium dioxide; Dioxititanium

**New Jersey Right to know**

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

titanium dioxide; Dioxititanium

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**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
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways.

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

<b>Code</b>	<b>Hazard class and hazard category</b>	<b>Description</b>
A.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
A.2/2	Skin Irrit. 2	Skin irritation, Category 2
A.3/1	Eye Dam. 1	Serious eye damage, Category 1
A.3/2A	Eye Irrit. 2A	Eye irritation, Category 2A
A.4.2/1	Skin Sens. 1	Skin Sensitization, Category 1
A.4.2/1B	Skin Sens. 1B	Skin Sensitization, Category 1B
A.6/2	Carc. 2	Carcinogenicity, Category 2
A.9/2	STOT RE 2	Specific target organ toxicity following repeated exposure, Category 2
B.6/4	Flam. Liq. 4	Flammable Liquids — Category 4

**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.