

# SAFETY DATA SHEET

**Product:** SR300 Multipurpose Vulk Cement

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier:	SR300 Multipurpose Vulk Cement <b>Other means of identification:</b> 475204, 475244, 475248
1.2. Relevant identified uses of the substance or mixture and uses advised against:	Vulk Cimento is indicated for tire retreading processes, using mold curing or pre-curing methods. Patching and airlock repair are recommended, both with heat curing. <b>Restrictions on use:</b> This product should not be used for applications other than those recommended in this section. Remove all ignition sources. Keep away from heat, open flames, hot surfaces, sparks and do not smoke. For more information, consult the product's technical data sheet.
1.3. Details of the supplier of the safety data sheet:	Vipal Europe S.L. <b>Address:</b> - V - España. <b>Phone number:</b> +34 963 25 95 10 – Frederico Schmidt <b>E-mail:</b> sales.eu@vipal.com
1.4. Emergency telephone number:	+34 963 25 95 10 – Frederico Schmidt
UFI:	SAQ5-1SCV-X00F-PUGT

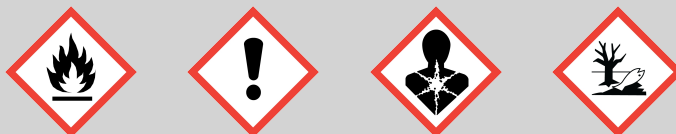
## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008. Flammable Liquids - Category 2;  
Skin Corrosion/Irritation - Category 2;  
Reproductive Toxicity - Category 2;  
Specific Target Organ Toxicity – Single Exposure - Category 3 - Narcotic;  
Hazardous to the Aquatic Environment - Chronic Hazard - Category 2.

### 2.2. Label elements

Pictograms:



Signal word: DANGER

Hazard statement(s): H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H361 Suspected of damaging fertility or the unborn child.  
H411 Toxic to aquatic life with long lasting effects.

Caution recommendations: **PREVENTION:**  
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 dust/fume/gas/mist/vapours/spray.  
P264 Wash the hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.

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P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**RESPONSE TO EMERGENCY:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P312 Call a POISON CENTRE/doctor if you feel unwell.  
P321 Specific treatment.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use carbon dioxide (CO<sub>2</sub>), foam, water mist and powder to extinguish.  
P391 Collect spillage.

**STORAGE:**

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.

**DISPOSITION:**

P501 Dispose of contents/container in compliance with local regulations.

**2.3. Other hazards**

The product has no other hazards.

**SECTION 3: Composition/information on ingredients**

**3.1. Substances** Not applicable

**3.2. Mixtures** SR300 Multipurpose Vulk Cement

Components contributing to the hazard:

Product identifier	EC/CAS	Classification according to Regulation No. 1272/2008	Specific Concentration Limits (Part 3 of Annex VI to Regulation (EC) No 1272/2008)	Concentration range %
Distillates (petroleum), c6-rich	296-903-4 93165-19-6	Skin Irrit. 2 (H315); Muta. 1B (H340); Carc. 1B (H350); Repr. 2 (H361); Asp. Tox. 1 (H304); Flam. Liq. 1 (H224); Aquatic Chronic 2 (H411); STOT SE 3 (H336); LD <sub>50</sub> Oral (rats): > 5000 mg/kg; LD <sub>50</sub> Dermal (rats): >2000 mg/kg; LC <sub>50</sub> Vapours (rats, 4h): >7.63 mg/L; M = 1.	Unlisted.	52.11 - 78.17

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Zinc oxide	215-222-5 1314-13-2	Aquatic Acute 1 (H400); Aquatic Chronic 1 (H410); LD <sub>50</sub> Oral (mice): > 5000 mg/kg; LD <sub>50</sub> Dermal (rats): > 5000 mg/kg; LC <sub>50</sub> Dusts and mists (rats, 4h): > 5 mg/L; M = 10.	Unlisted.	0.22 - 0.34
Benzene <sup>1</sup>	200-753-7 71-43-2	Skin Irrit. 2 (H315); Eye irrit. 2 (H319); Muta. 1B (H340); Carc. 1A (H350); Asp. Tox. 1 (H304); Flam. Liq. 2 (H225); STOT RE 1 (H372); LD <sub>50</sub> Oral (rats): > 2 000 mg/kg; LD <sub>50</sub> Dermal (rats): > 5000 mg/kg; LC <sub>50</sub> Vapours (mice, 4h): 43.7 mg/L.	Unlisted.	0.04 - 0.06
Stearic acid <sup>2</sup>	200-313-4 57-11-4	LD <sub>50</sub> Oral (rats): 4600 mg/kg; LD <sub>50</sub> Dermal (rats): > 2000 mg/kg; LC <sub>50</sub> Vapours (rats, 4h): >0.162 mg/L.	Unlisted.	0.02 - 0.04

<sup>1</sup> The ingredient does not contribute to the hazard.

<sup>2</sup> Ingredient not classified as dangerous by the classification system used.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation:	Remove victim to fresh air and keep in a position that does not obstruct breathing. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.
Skin:	Wash exposed skin with sufficient amount of water to remove the product. Remove and isolate contaminated clothing and shoes. In case of skin irritation: Consult a doctor. Bring this document.
Eye:	Rinse carefully with water for several minutes. If wearing contact lenses, remove them if it is easy and keep rinsing. If eye irritation persists: consult a doctor. Bring this document.
Ingestion:	Wash the victim's mouth with plenty of water. Never give anything by mouth to an unconscious person. If you feel unwell, contact a TOXICOLOGICAL INFORMATION CENTER or a doctor. Bring this document.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms:	Causes skin irritation with redness, pain and dryness. May cause drowsiness or dizziness, may cause dizziness and nausea.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment:	Avoid contact with the product when helping the victim. If necessary, symptomatic treatment should include, above all, supportive measures such as correction of hydro electrolytic and metabolic disorders and respiratory assistance. In case of skin contact, do not rub the affected area.
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## SECTION 5: Firefighting measures

5.1. Extinguishing	Appropriate: carbon dioxide (CO <sub>2</sub> ), foam, water mist and powder.
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media:	Inappropriate: water directly onto the burning material.	
5.2. Special hazards arising from the substance or mixture:	Combustion of the material or its packaging can form irritating and toxic gases such as carbon monoxide and dioxide. Very dangerous when exposed to excessive heat or other sources of ignition such as: sparks, open flames or flames from matches and cigarettes, welding operations, pilot lights and electric motors. May build up static charge by flow or agitation. Vapors from heated product can ignite by static discharge. Vapors are denser than air and tend to accumulate in low-lying or confined areas such as storm drains and basements. It can travel great distances causing the flame to retreat or new fires in both open and confined environments. Containers may explode if heated.	
5.3. Advice for firefighters:	If the load is involved in fire, isolate and evacuate the area to a minimum radius of 800 meters. Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing. Containers and tanks involved in the fire must be cooled with water mist.	

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:	<p><b>For non-emergency personnel:</b> Isolate leak from ignition sources. Keep unauthorized people away from the area. Stop the leak if it can be done without risk. Prevent sparks or flames. Do not smoke. Do not touch damaged containers or spilled product without wearing appropriate clothing. Avoid exposure to the product. Stay in a safe place, with the wind at your back. Use personal protective equipment as described in section 8.</p> <p><b>For emergency responders:</b> Wear full PPE with safety glasses, safety gloves, suitable protective clothing and closed-toe shoes. In the event of a leak, where exposure is high, it is recommended to use an appropriate respiratory protection mask.</p>
6.2. Environmental precautions:	Prevent spilled product from reaching waterways and sewage systems.
6.3. Methods and materials for containment and cleaning up:	Use water mist to reduce vapor dispersion. Use natural or spill containment barriers. Collect spilled product and place in appropriate containers. Adsorb the remaining product with dry sand, earth, vermiculite, or any other inert material. Place the adsorbed product in appropriate containers and remove them to a safe place. Use non-sparking tools to collect the absorbed product. All equipment used in handling must be electrically grounded. For final disposal, proceed as per Section 13 of this document.
6.4. Reference to other sections:	See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

## SECTION 7: Handling and storage

7.1. Precautions for safe handling	Handle in a well ventilated area or with general system of ventilation/local exhaust. Avoid vapors and mists formation. Handling the product can result in electrostatic charge buildup. All ignition sources must be extinguished from areas during use. Use proper grounding procedures. Use personal protective equipment as described in section 8. Avoid contact with incompatible materials. Wash hands and face thoroughly after handling and before eating, drinking, smoking, or using the toilet. Contaminated clothing should be changed and washed before reuse. Remove contaminated clothing and protective equipment before entering eating areas.
7.2. Conditions for safe storage, including any incompatibilities	<p>Store in a dry, well-ventilated place away from sunlight. Keep the container closed.</p> <p>It is not necessary addition of stabilizers and antioxidants to ensure the durability.</p> <p>This material may react dangerously with some incompatible materials as outlined in Section 10.</p> <p>Keep away from incompatible materials.</p> <p>Keep away from heat, sparks, open flame, and hot surfaces. Do not smoke. Keep the container tightly closed. Ground the container vessel and product receiver during transfers. Only use non-sparking tools. Avoid the accumulation of electrostatic charges. Use explosion-proof electrical, ventilation, and lighting equipment.</p> <p>Packaging compatibilities: Similar to the original packaging.</p> <p>Inadequate packaging materials: There are not known unsuitable material.</p>
7.3. Specific end use(s):	Vulk Cimento is indicated for tire retreading processes, using mold curing or pre-curing methods.

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Patching and airlock repair are recommended, both with heat curing. **Restrictions on use:** This product should not be used for applications other than those recommended in this section.

Remove all ignition sources. Keep away from heat, open flames, hot surfaces, sparks and do not smoke.

For more information, consult the product's technical data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Occupational exposure limit: The values below apply to workplaces.

- Zinc oxide:

ACGIH - TLV - TWA: 2 mg/m<sup>3</sup> (R);

ACGIH - TLV - STEL: 10 mg/m<sup>3</sup> (R).

- Benzene:

ACGIH - TLV - TWA: 0.5 ppm (\*);

ACGIH - TLV - STEL: 2.5 ppm (\*).

- Stearic acid:

ACGIH - TLV - TWA: 10 mg/m<sup>3</sup> (I); 3 mg/m<sup>3</sup> (R).

R: Respirable particulate matter;

\*: Also absorbed through the skin;

I: Inhalable particulate matter.

Biological limit:

- Benzene:

ACGIH - BEI: Determinant: S-phenylmercapturic acid in urine. Sampling time: End of shift. Index: 25

µg/g creatinine. Notation: B. Determinant: t,t-muconic acid in urine. Sampling time: End of shift.

Index: 500 µg/g creatinine. Rating: B.

B: The determinant may be present in biological specimens collected from subjects who have not been occupationally exposed, at a concentration which could affect the interpretation of the results. Such background concentrations are incorporated in the BEI value.

Other limits and values:

- Benzene:

Benzene does not have LT, but is the object of Annex 13-A, of NR15, where, for companies subject to the provisions of the Annex, the parameter VRT-MPT (average concentration of benzene in the air weighted by the time, for a working hours of eight hours, obtained in the breathing zone of workers, individually or from Homogeneous Exposure Groups - GHE, as defined in Normative Instruction No. 01). According to this Annex, the values established for the VRT-MPT are 1.0 ppm for the companies included in the Annex, with the exception of steel companies, and 2.5 ppm for the steel companies.

### 8.2. Exposure controls

Appropriate engineering controls: A risk assessment is recommended to define the engineering control measures necessary to eliminate or minimize the risk. These measures help to reduce exposure to the product. Maintain atmospheric concentrations of the constituents of the material below occupational exposure limits indicated.

Eye/face protection: Fully enclosed protective goggles.

Skin protection: Impervious clothing or protective clothing chemically resistant to the product. Nitrile gloves.

Respiratory protection: Semifacial mask with filter for organic vapors.

Thermal hazards: It does not present thermal hazards.

Environmental exposure control: See Section 6 for information on environmental exposure.

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance:	Black liquid, viscous.
Odour:	Feature.
Odor threshold:	Due to lack of information, data is not available for the product.
Melting point/freezing point:	Due to lack of information, data is not available for the product.
Initial boiling and boiling range:	Due to lack of information, data is not available for the product.
Flammability:	Flammable.
Lower and upper explosion limit/flammability limit:	Due to lack of information, data is not available for the product.
Flash point:	-35 °C (-31 °F) - Closed cup.
Auto-ignition temperature:	- <u>Distillates (petroleum), c6-rich:</u> 280 to 470 °C (536 to 878 °F).
Decomposition temperature:	Due to lack of information, data is not available for the product.
pH:	Due to lack of information, data is not available for the product.
Viscosity:	Due to lack of information, data is not available for the product.
Solubility(ies):	Immiscible in water.
Partition coefficient n-octanol/water (log value):	Due to lack of information, data is not available for the product.
Vapour pressure:	- <u>Distillates (petroleum), c6-rich:</u> ≤ 240 kPa at 37.8 °C (100.04 °F).
Vapor density:	Due to lack of information, data is not available for the product.
Relative density:	Due to lack of information, data is not available for the product.
Particle characteristics:	Not applicable.
<b>9.2. Other information</b>	
Information with regard to physical hazard classes:	Due to lack of information, data is not available for the product.
Other safety characteristics:	Absolute density: 0.7 to 0.73 g/cm <sup>3</sup> at 23 °C (73.4 °F). Dynamic viscosity: 420 to 520 cP (0.42 to 0.52 Pa.s) at 23 °C (73.4 °F).

## SECTION 10: Stability and reactivity

10.1. Reactivity:	Reactivity is not to be expected under normal conditions of temperature and pressure.
10.2. Chemical stability:	Stable under normal temperature and pressure conditions.
10.3. Possibility of hazardous reactions:	- <u>Zinc oxide:</u> Reacts violently with oils, aluminum powder and chlorinated rubber. Risk of explosion on contact with

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	magnesium.
10.4. Conditions to avoid:	High temperatures. Ignition sources. Contact with incompatible materials.
10.5. Incompatible material:	Aluminum, carbon monoxide, chlorinated rubber, hydrogen, magnesium and oils.
10.6. Hazardous decomposition products:	No dangerous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:	Product not classified as acute toxic. ATEmix Vapours (4h): > 20 mg/L. ATEmix Dusts and mists (4h): > 5 mg/L. ATEmix Oral: > 5000 mg/kg. ATEmix Dermal: > 5000 mg/kg.
Skin corrosion/irritation:	Causes skin irritation with redness, pain and dryness.
Serious eye damage/irritation:	It is not expected to cause eye irritation.
Respiratory or skin sensitization:	It is not expected to present respiratory or skin sensitization.
Germ cell mutagenicity:	Not classified for germ cell mutagenicity. This classification is based on the possibility of this product containing benzene at a concentration of equal to 0.1%. However, if this value is lower, the product will not be classified as mutagenic.
Carcinogenicity:	Not classified for carcinogenicity. This classification is based on the possibility of this product containing benzene at a concentration of equal to 0.1%. However, if this value is lower, the product will not be classified as carcinogenic.
Reproductive toxicity:	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure):	May cause drowsiness or dizziness, may cause dizziness and nausea.
Specific target organ toxicity (repeated exposure):	It is not expected to exhibit specific target organ toxicity on repeated exposure.
Aspiration hazard:	It is not expected to present an aspiration hazard.

### 11.2. Information on other hazards

Endocrine-disrupting properties:	No endocrine disruptive properties are expected.
Other information:	Not applicable

## SECTION 12: Ecological information

12.1. Toxicity:	Toxic to aquatic life with long lasting effects.  Information regarding to: - Distillates (petroleum), c6-rich: ErC <sub>50</sub> ( <i>Pseudokirchneriella subcapitata</i> , 96 h): 3.1 mg/L; EC <sub>50</sub> ( <i>Daphnia magna</i> , 48 h): 4.5 mg/L; LC <sub>50</sub> ( <i>Pimephales promelas</i> , 96 h): 8.2 mg/L.
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- Zinc oxide:  
 LC<sub>50</sub> (*Pseudokirchneriella subcapitata*, 72 h): 0.046 mg/L;  
 NOEC (*Oncorhynchus mykiss*, 30d): 0.058 mg/L;  
 NOEC (*Daphnia magna*, 21d): 0.058 mg/L;  
 EC<sub>50</sub> (*Ceriodaphnia dubia*, 48 h): 0.147 - 0.228 mg/L;  
 LC<sub>50</sub> (*Danio rerio*, 96 h): 0.330 - 0.760 mg/L.

12.2. Persistence and degradability: It is expected that the product presents persistence and it is not considered readily biodegradable.

12.3. Bioaccumulative potential: It is not expected to have a high bioaccumulative potential.

12.4. Mobility in soil: Not determined.

12.5. Results of PBT and vPvB assessment: There aren't PBT and vPvB results available.

12.6. Endocrine-disrupting properties: No endocrine disruptive properties are expected.

12.7. Other adverse effects: No other environmental effects known.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods:** Must be disposed of as waste in compliance with local regulations. The treatment and disposal should be evaluated for each specific product.  
 Keep the product remains in its original and properly closed containers. Disposal should be performed as established for the product.

## SECTION 14: Transport information

### International regulations

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

**Railway regulations:** COTIF - Convention concerning International Carriage by Rail:  
 • Appendix C: RID - Regulations concerning the International Carriage of Dangerous Goods by Rail.

**Sea:** IMO - International Maritime Organization:  
 • IMDG Code - International Maritime Dangerous Goods Code.

**Inland waterways:** European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways - ADN.

**Air:** IATA - International Air Transport Association:  
 • DGR - Dangerous Goods Regulation.

### 14.1. UN number:

Road:	Railway regulations:	Sea:	Inland waterways:	Air:
1133	1133	1133	1133	1133

### 14.2. UN Proper shipping name:

Road:	Railway regulations:	Sea:	Inland waterways:	Air:
ADHESIVES	ADHESIVES	ADHESIVES	ADHESIVES	ADHESIVES

### 14.3. Transport hazard class(es):

Road:	Railway regulations:	Sea:	Inland waterways:	Air:



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#### 14.4. Packing group:

Road:	Railway regulations:	Sea:	Inland waterways:	Air:
II	II	II	II	II

#### 14.5. Environmental hazards:

Road:	Railway regulations:	Sea:	Inland waterways:	Air:
The product is considered dangerous for the environment for land transport.	The product is considered dangerous for the environment in rail transport.	The product is considered a marine pollutant.	The product is considered dangerous to the environment for inland waterway transport.	The product is considered dangerous for the environment for air transport.

#### 14.6. Special precautions for user:

Not applicable.

Sea transport: EmS: F-E,S-D.

14.7. Maritime transport in bulk according to IMO instruments:

Consult regulations:

- International Maritime Organization: MARPOL: Articles, protocols, annexes, unified interpretations of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, consolidated edition. IMO, London, 2006;
- International Maritime Organization: IBC code: International code for the construction and equipment of shipping carrying dangerous chemicals in bulk: With Standards and guidelines relevant to the code. IMO, London, 2007.

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture: Regulation 689/2008 (exportation and importation of hazardous products). Regulation (EC) N° 1272/2008 of the European Parliament and of the Council of 16 December 2008. Convention concerning Safety in the use of Chemicals at Work (Convention 170) - International Labour Organization, 1990.

**TSCA:** One component of this product is not listed on the TSCA.

15.2. Chemical safety assessment: Not available.

## SECTION 16: Other information

This document was prepared based on current knowledge about the proper product handling and under normal conditions of use, in accordance with the application specified on the packaging. Any other use of the product involving their combination with other products, and use various forms of those indicated, are the responsibility of the user. Warns that the handling of any chemical substance requires the prior knowledge of its hazards for the user. In the workplace it is for the user company's product promotes training of its collaborators about the possible risks arising from exposure to the chemical.

#### Texts of Hazard statements (H) mentioned in section 3:

H224 Extremely flammable liquid and vapour;  
 H304 May be fatal if swallowed and enters airways;  
 H319 Causes serious eye irritation;  
 H340 May cause genetic defects;  
 H350 May cause cancer;  
 H372 Causes damage to organs through prolonged or repeated exposure;  
 H400 Very toxic to aquatic life;

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H410 Very toxic to aquatic life with long lasting effects.

**Change control:**

Version	Manufacture date	Changes
00	07/02/2024	Elaboration

**Abbreviations:**

ACGIH - American Conference of Governmental Industrial Hygienists;  
ATEmix - Acute Toxicity Estimate of the mixture;  
BEI - Biological Exposure Index;  
CAS - Chemical Abstracts Service;  
EC - European Community;  
EC<sub>50</sub> - Effective concentration of substance that causes 50 % of the maximum response;  
ErC<sub>50</sub> - Effective concentration that results in a 50% reduction in the growth rate;  
LC<sub>50</sub> - Lethal Concentration 50%;  
NOEC - No Observed Effect Concentration;  
PBT - Persistent, bioaccumulative and toxic;  
STEL - Short Term Exposure Limit;  
TLV - Threshold Limit Value;  
TWA - Time Weighted Average;  
UN - United Nations;  
vPvB - Very Persistent and very Bioaccumulative.

**Bibliographic references:**

ACGIH - AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIALS HYGIENISTS. TLVs® and BEIs®: Based on the Documentation of the Threshold Limit Values (TLVs®) for Chemical Substances and Physical Agents & Biological Exposure Indices (BEIs®). Cincinnati-USA, 2023.

GHS - GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS. 10th rev. ed. New York and Geneva: United Nations, 2023.