

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

**Replaced version:** 3.0.1, issued: 28.06.2024

**Region:** USA

## SECTION 1: Identification

### 1.1 Product identifier

**Trade name**

**ArmaFlex WB Finish**

### 1.2 Recommended use of the chemical and restrictions on use

**Recommended use of the chemical and restrictions on use**

Elastomeric coating

**Restrictions on use**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

Armacell LLC  
55 Vilcom Center Drive  
Suite 200  
Chapel Hill, NC 27514

Telephone no. +1 919-304-8907  
e-mail info.sds.ai.usmca@armacell.com

### 1.4 Emergency phone number

Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
+1 703-527-3887/1-800-424-9300  
Within Mexico Only: 800-681-9531  
CHEMTREC Customer #: 1015657

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the chemical

**Classification of the chemical in accordance with paragraph (d) of 29 CFR § 1910.1200 "Hazard Communication"**

Carcinogenicity - Category 2

Eye Irritation - Category 2B

Skin sensitization - Category 1B

### 2.2 Label elements

**Pictogram(s)**



**Signal word**

Warning

**Hazard Statement(s)**

Health hazards

May cause an allergic skin reaction  
Causes eye irritation  
Suspected of causing cancer.

**Precautionary Statement(s)**

Prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing fume/ gas/ mist/ vapours/ spray.  
Wash exposed skin thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves/protective clothing/eye protection/face protection.

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

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**Region:** USA

|          |                                                                                                                                                                                                                                                                                           |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Response | If on skin: Wash with plenty of water and soap.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If exposed or concerned: Get medical advice/attention.<br>Wash contaminated clothing before reuse. |
| Storage  | Store locked up.                                                                                                                                                                                                                                                                          |
| Disposal | Dispose of contents/container to a facility in accordance with local and national regulations.                                                                                                                                                                                            |

## 2.3 Labelling information

No data available

## 2.4 Hazards not otherwise classified (HNOC)

No data available

## SECTION 3: Composition / information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Hazardous ingredients

| No | Substance name   | Concentration      | %      |
|----|------------------|--------------------|--------|
|    | CAS no.          |                    |        |
| 1  | titanium dioxide |                    |        |
|    | 13463-67-7       | >= 10.00 - < 25.00 | %-b.w. |
| 2  | zinc oxide       |                    |        |
|    | 1314-13-2        | < 2.50             | %-b.w. |
| 3  | benzophenone     |                    |        |
|    | 119-61-9         | < 0.50             | %-b.w. |

### 3.3 Other information

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of 29 CFR 1910.1200

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

#### General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

#### After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

#### After skin contact

In case of contact with skin wash off with water.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

#### After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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

No data available.

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

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**Replaced version:** 3.0.1, issued: 28.06.2024

**Region:** USA

**Suitable extinguishing media**

Carbon dioxide; Dry chemical extinguisher; Alcohol-resistant foam

**Unsuitable extinguishing media**

Full water jet

**5.2 Specific hazards arising from the chemical**

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)

**5.3 Special protective equipment and precautions for fire-fighters**

Use self-contained breathing apparatus. Wear protective clothing. Closed containers may rupture when exposed to extreme heat.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

Personal protective equipment (PPE) - see Section 8.

**6.2 Methods and materials for containment and cleaning up**

Collect mechanically. When collected, handle material as described under the section heading "Disposal considerations". Avoid raising dust.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

**Precautions for safe handling**

Risks inherent to handling the product must be minimised by applying appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale dust. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

**7.2 Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from temperatures over 50°C.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided: see chapter 10.

## SECTION 8: Exposure controls / personal protection

**8.1 Control parameters**

**Occupational exposure limit(s)**

| No                                  | Substance name                         | CAS no.                 |
|-------------------------------------|----------------------------------------|-------------------------|
| 1                                   | Nepheline syenite                      | 37244-96-5              |
| <b>ACGIH Threshold Limit Values</b> |                                        |                         |
|                                     | Aluminum metal and insoluble compounds |                         |
|                                     | TWA                                    | 1 (R) mg/m <sup>3</sup> |
|                                     | Skin resorption / sensibilisation      |                         |
|                                     | Remarks                                | A4                      |
| 2                                   | titanium dioxide                       | 13463-67-7              |

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

**Replaced version:** 3.0.1, issued: 28.06.2024

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|                                                |                   |                   |  |
|------------------------------------------------|-------------------|-------------------|--|
| <b>OSHA Permissible Exposure Limits (PELS)</b> |                   |                   |  |
| Titanium dioxide Total dust                    |                   |                   |  |
| TWA                                            | 15                | mg/m <sup>3</sup> |  |
| <b>ACGIH Threshold Limit Values</b>            |                   |                   |  |
| Titanium dioxide Nanoscale particles           |                   |                   |  |
| TWA                                            | 0,2 (R)           | mg/m <sup>3</sup> |  |
| Remarks                                        | A3                |                   |  |
| <b>ACGIH Threshold Limit Values</b>            |                   |                   |  |
| Titanium dioxide Finescale particles           |                   |                   |  |
| TWA                                            | 2,5 (R)           | mg/m <sup>3</sup> |  |
| Remarks                                        | A3                |                   |  |
| <b>3</b>                                       | <b>zinc oxide</b> | <b>1314-13-2</b>  |  |
| <b>ACGIH Threshold Limit Values</b>            |                   |                   |  |
| Zinc oxide                                     |                   |                   |  |
| STEL                                           | 10 (R)            | mg/m <sup>3</sup> |  |
| TWA                                            | 2 (R)             | mg/m <sup>3</sup> |  |
| <b>OSHA Permissible Exposure Limits (PELS)</b> |                   |                   |  |
| Zinc oxide fume                                |                   |                   |  |
| TWA                                            | 5                 | mg/m <sup>3</sup> |  |
| <b>OSHA Permissible Exposure Limits (PELS)</b> |                   |                   |  |
| Zinc oxide Total dust                          |                   |                   |  |
| TWA                                            | 15                | mg/m <sup>3</sup> |  |
| <b>OSHA Permissible Exposure Limits (PELS)</b> |                   |                   |  |
| Zinc oxide Respirable fraction                 |                   |                   |  |
| TWA                                            | 5                 | mg/m <sup>3</sup> |  |

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the PEL (=Permissible Exposure Limit), suitable respiratory protection must be worn.

### Individual protection measures, such as personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield

#### Hand protection

Sufficient protection is given wearing suitable protective gloves in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other protection measures

Chemical-resistant work clothes.

## SECTION 9: Physical and chemical properties

|                       |          |
|-----------------------|----------|
| <b>Form/Color</b>     |          |
| liquid                |          |
| <b>Odor</b>           |          |
| slightly like ammonia |          |
| <b>Odor threshold</b> |          |
| No data available     |          |
| <b>pH value</b>       |          |
| Value                 | 8.5 - 10 |

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

**Replaced version:** 3.0.1, issued: 28.06.2024

**Region:** USA

|        |          |
|--------|----------|
| Source | supplier |
|--------|----------|

| Boiling point / boiling range |          |     |    |
|-------------------------------|----------|-----|----|
| Value                         |          | 100 | °C |
| Source                        | supplier |     |    |
| Value                         |          | 212 | °F |

| Melting point / melting range |          |    |    |
|-------------------------------|----------|----|----|
| Value                         |          | 0  | °C |
| Source                        | supplier |    |    |
| Value                         |          | 32 | °F |

| Decomposition point / decomposition range |  |  |  |
|-------------------------------------------|--|--|--|
| No data available                         |  |  |  |

| Flash point       |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Auto-ignition temperature |  |  |  |
|---------------------------|--|--|--|
| No data available         |  |  |  |

| Oxidising properties |  |  |  |
|----------------------|--|--|--|
| No data available    |  |  |  |

| Explosive properties |  |  |  |
|----------------------|--|--|--|
| No data available    |  |  |  |

| Flammability      |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Lower flammability or explosive limits |  |  |  |
|----------------------------------------|--|--|--|
| No data available                      |  |  |  |

| Upper flammability or explosive limits |  |  |  |
|----------------------------------------|--|--|--|
| No data available                      |  |  |  |

| Vapor pressure    |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Vapor density     |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Evaporation rate  |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Relative density  |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Density |          |      |                   |
|---------|----------|------|-------------------|
| Value   |          | 1.34 | g/cm <sup>3</sup> |
| Source  | supplier |      |                   |

| Solubility in water |  |  |  |
|---------------------|--|--|--|
| No data available   |  |  |  |

| Solubility(ies)   |  |  |  |
|-------------------|--|--|--|
| No data available |  |  |  |

| Partition coefficient: n-octanol/water |  |  |  |
|----------------------------------------|--|--|--|
| No data available                      |  |  |  |

| Viscosity |          |           |    |
|-----------|----------|-----------|----|
| Value     |          | 100 - 130 | KU |
| Source    | supplier |           |    |

## Other information

| Other information  |  |  |  |
|--------------------|--|--|--|
| No data available. |  |  |  |

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

**Replaced version:** 3.0.1, issued: 28.06.2024

**Region:** USA

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Stable under recommended storage and handling conditions(See section 7).

### 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

### 10.4 Conditions to avoid

Heat, open flames and other sources of ignition.

### 10.5 Incompatible materials

strong oxidising agents

### 10.6 Hazardous decomposition products

No data available.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute oral toxicity

No data available

#### Acute dermal toxicity

No data available

#### Acute inhalational toxicity

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Reproduction toxicity

No data available

#### Carcinogenicity

No data available

#### NTP Report on Carcinogens (RoC)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed "known" (to be a human carcinogen) or "RAHC" (reasonably anticipated to be a human carcinogen).

#### OSHA Standards listing cancer as a health effect (Table VII.6.2)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as carcinogenic.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

The product contains following substance(s) classified by the IARC Monographs

| No | Substance name   | CAS no.    | Group |
|----|------------------|------------|-------|
| 1  | benzophenone     | 119-61-9   | 2B    |
| 2  | titanium dioxide | 13463-67-7 | 2B    |

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

**Replaced version:** 3.0.1, issued: 28.06.2024

**Region:** USA

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

**Toxicity to fish (acute)**

No data available

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No data available

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No data available

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Other adverse effects

No data available.

### 12.6 Other information

**Other information**

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Disposal considerations

**Product**

Dispose in accordance with federal, state and local regulations.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in accordance with federal, state and local regulations.

## SECTION 14: Transport information

### 14.1 US DOT (Department of Transportation)

The product is not subject to DOT regulations.

### 14.2 Transport IMDG

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

**Replaced version:** 3.0.1, issued: 28.06.2024

**Region:** USA

The product is not subject to IMDG regulations.

## 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

## 14.4 Other information

No data available.

## 14.5 Environmental hazards

Information on environmental hazards, if relevant, pls. see 14.1 - 14.3.

## 14.6 Special precautions for user

No data available.

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1 US Federal Regulations

#### Toxic Substances Control Act (TSCA)

According to the data available and/or specifications supplied by upstream suppliers, all components of this product are on the TSCA Inventory listed as active or are exempted from notification requirements.

The following substances have EPA regulatory flags in the TSCA Inventory:

| No | Substance name | CAS no.   | EPA TSCA<br>Regulatory Flags |
|----|----------------|-----------|------------------------------|
| 1  | water          | 7732-18-5 | XU                           |

#### CERCLA (Comprehensive Environmental Response, Compensation and Liability Act)

The product contains following substance(s) that are considered being subject to Table 302.4 "List of Hazardous Substances and Reportable Quantities"

| No | Substance name | CAS no.   |
|----|----------------|-----------|
| 1  | zinc oxide     | 1314-13-2 |

#### Clean Air Act (CAA): Hazardous Air Pollutants (HAPS)

The product contains following substance(s) that are considered being "Hazardous Air Pollutants".

| No | Substance name | CAS no.   |
|----|----------------|-----------|
| 1  | zinc oxide     | 1314-13-2 |

#### Clean Water Act (CWA) Section 307 (Toxic Pollutants) and Section 311 (Hazardous Substances)

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name | CAS no.   |
|----|----------------|-----------|
| 1  | zinc oxide     | 1314-13-2 |

#### EPCRA SARA Section 313, Toxic Chemical Release Inventory

The product contains following substance(s) that are considered being subject to "SARA Reporting".

| No | Substance name | CAS no.   |
|----|----------------|-----------|
| 1  | zinc oxide     | 1314-13-2 |

#### Emergency Planning & Community Right-to-Know Act (EPCRA) - Sections 302 and 304

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered being subject to reporting requirements.

#### Clean Air Act (CAA) - Section 602 Ozone depleting substances

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) listed as ozone depleting substance.

### 15.2 US State Regulations

#### Pennsylvania State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name   | CAS no.    |
|----|------------------|------------|
| 1  | propane-1,2-diol | 57-55-6    |
| 2  | titanium dioxide | 13463-67-7 |

**Trade name:** ArmaFlex WB Finish

**Current version :** 4.0.0, issued: 13.09.2024

**Replaced version:** 3.0.1, issued: 28.06.2024

**Region:** USA

|   |            |           |
|---|------------|-----------|
| 3 | zinc oxide | 1314-13-2 |
|---|------------|-----------|

#### New Jersey State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name   | CAS no.    |
|----|------------------|------------|
| 1  | propane-1,2-diol | 57-55-6    |
| 2  | titanium dioxide | 13463-67-7 |
| 3  | zinc oxide       | 1314-13-2  |

#### Massachusetts State Right to Know Hazardous Substance List

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name   | CAS no.    |
|----|------------------|------------|
| 1  | titanium dioxide | 13463-67-7 |
| 2  | zinc oxide       | 1314-13-2  |

#### California Code of Regulations Title 8 §339, Hazardous Substances List

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substance(s) that are considered to be "Hazardous Substances".

#### Right to Know - California State - Proposition 65

The product contains following substance(s) that are considered to be "Hazardous Substances".

| No | Substance name   | CAS no.    | type of toxicity |
|----|------------------|------------|------------------|
| 1  | benzophenone     | 119-61-9   | cancer           |
| 2  | titanium dioxide | 13463-67-7 | cancer           |

### 15.3 Further regulations

According to the information available to the supplier of the data sheet, this product contains no ingredients listed in the Red List of the Living Building Challenge.

## SECTION 16: Other information, including date of preparation or last revision

### 16.1 Other information

No data available.

### 16.2 Date of preparation/revision of the SDS

|                  |       |            |
|------------------|-------|------------|
| Current version  | 4.0.0 | 13.09.2024 |
| Replaced version | 3.0.1 | 28.06.2024 |

### 16.3 Department issuing safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

### 16.4 Conclusions

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not, however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 771358

### 16.5 Key / Legend

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5E - indicates a substance that is the subject of a TSCA section 5(e) order  
5F - indicates a substance that is the subject of a TSCA section 5(f) rule  
ACGIH - American Conference of Governmental Industrial Hygienists  
ATE – Acute Toxicity Estimate  
BOD - Biochemical Oxygen Demand  
CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania\*;  
CAS - Chemical Abstracts Service  
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
CFR - Code of Federal Regulations (US)  
CLP - Classification, Labelling, and Packaging  
DOT - Department of Transportation Commission  
ECHA – European Chemicals Agency  
EC / EL – Effective Concentration / Effective Loading  
EPA - Environmental Protection Agency  
IARC - International Agency for Research on Cancer  
IATA - International Air Transport Association  
IBC – Intermediate Bulk Container  
ICAO - International Civil Aviation Organization  
IDL - Ingredient Disclosure List  
IDLH - Immediately Dangerous to Life and Health  
IMDG - International Maritime Dangerous Goods  
IUCIID - International Uniform Chemical Information Database  
Kow - Octanol/water partition coefficient  
LD/LC - Lethal Dose/ Lethal Concentration  
MARPOL – Marine Pollution  
MEL - Maximum Exposure Limits  
NFPA - National Fire Protection Agency  
NIOSH - National Institute for Occupational Safety and Health  
NJTSR - New Jersey Trade Secret Registry  
NOEL/NOEC – No Observed Effect Level / No Observed Effect Concentration  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PEL- Permissible Exposure Limit  
PMN - indicates a commenced Pre Manufacture Notice substance  
RCRA - Resource Conservation and Recovery Act  
S - indicates a substance that is identified in a final Significant New Use Rule  
SARA - Superfund Amendments and Reauthorization Act  
SP - indicates a substance that is identified in a proposed Significant New Use Rule  
STEL - Short-term Exposure Limit  
STOT – Specific Target Organ Toxicity  
T - indicates a substance that is the subject of a final TSCA section 4 test rule or order  
TDG - Transportation of Dangerous Goods  
TLV - Threshold Limit Value  
TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule or order  
TSCA - Toxic Substances Control Act  
TWA - Time Weighted Average  
UN/NA - United Nations /North American  
US - United States  
VLE - Exposure Limit Value (Mexico)  
VOC – Volatile Organic Compounds  
XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule