

## Safety Data Sheet

*acc. to OSHA HCS*

Printing date 06/22/2018

Reviewed on 06/22/2018

### 1 Identification

**Product identifier**
**Trade name:** Osmo Natural Oil Woodstain

**Article number:** 700 Pine, 702 Larch, 703 Mahogany, 706 Oak, 707 Walnut, 708 Teak, 710 Stone Pine, 712 Ebony, 727 Rosewood, 728 Red Cedar, 729 Fir Green, 731 Oregon Pine, 732 Light Oak, 900 White, 903 Basalt Grey, 905 Patina, 906 Pearl Grey, 907 Quartz Grey

**Application of the substance / the mixture**

 Paint  
 Coating compound/ Surface coating/ paint

**Details of the supplier of the safety data sheet**
**Manufacturer/Supplier:** Osmo Holz und Color GmbH & Co. KG  
 Affhüppen Esch 12  
 D-48231 Warendorf  
 Germany

**Information department:**

 Product safety department  
 Phone: +49 (0) 251 / 692 - 188  
 Fax: +49 (0) 251 / 692 - 462  
 e-mail: helmut.starp@osmo.de

**Emergency telephone number:**

 24h-Emergency Phone Number:  
 For Chemical Emergency, Spill; Leak; Fire Exposure or Accident Call Day or Night within USA and Canada 1-800-424-9300  
 Outside USA and Canada 001-703-527-3887 (WISAG FMO cargo Services GmbH & Co.KG)

### 2 Hazard(s) identification

**Classification of the substance or mixture**

 Flam. Liq. 4 H227 Combustible liquid.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 Carc. 2 H351 Suspected of causing cancer.

**Label elements**
**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**


GHS07 GHS08

**Signal word**

Warning

**Hazard-determining components of labeling:**
**Hazard statements**

 propiconazole  
 H227 Combustible liquid.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.

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<b>Precautionary statements</b>	<p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from flames and hot surfaces. – No smoking.</p> <p>P261 Avoid breathing mist/vapours/spray.</p> <p>P272 Contaminated work clothing must not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves / eye protection.</p> <p>P302+P352 If on skin: Wash with plenty of water.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<b>Additional information:</b>	<p>Observe the general safety regulations when handling chemicals.</p> <p>Always wear a dust mask when sanding.</p>
<b>Classification system:</b>	
<b>NFPA ratings (scale 0 - 4)</b>	<p>Health = 0</p> <p>Fire = 2</p> <p>Reactivity = 0</p>
<b>HMIS-ratings (scale 0 - 4)</b>	<p>Health = 0</p> <p>Fire = 2</p> <p>Reactivity = 0</p>
<b>Other hazards</b>	<p>CAUTION: Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water filled metal container to prevent this.</p>
<b>Results of PBT and vPvB assessment</b>	
<b>PBT:</b>	Not applicable.
<b>vPvB:</b>	Not applicable.

### 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions.

#### Dangerous components:

64742-48-9	aliphatic hydrocarbons, C10-C13	 Asp. Tox. 1, H304; Flam. Liq. 4, H227	15-40%
34590-94-8	Dipropylene glycol monomethyl ether	Flam. Liq. 4, H227	0.5-1.5%
60207-90-1	propiconazole	 Acute Tox. 4, H302; Skin Sens. 1, H317	≤1%
13463-67-7	titanium dioxide	 Carc. 2, H351	0-12%

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**Additional information:**

The content of Titanium dioxide varies according to the colour shade.

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### 4 First-aid measures

**Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Induce vomiting, only if affected person is fully conscious.

If swallowed, seek medical advice immediately and show this container or label.

**Information for doctor:****Most important symptoms and effects, both acute and delayed**

Headache

Dizziness

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

### 5 Fire-fighting measures

**Extinguishing media****Suitable extinguishing agents:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:**

Water with full jet

**Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

**Advice for firefighters****Protective equipment:**

Mouth respiratory protective device.

**Additional information**

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

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

Ensure adequate ventilation

Keep away from ignition sources

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**Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.

**Methods and material for containment and cleaning up:** Warm water and cleansing agent  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Ensure adequate ventilation.

**Reference to other sections** See Section 13 for disposal information.

#### Protective Action Criteria for Chemicals

##### PAC-1:

64742-48-9	aliphatic hydrocarbons, C10-C13	350 mg/m <sup>3</sup>
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
13463-67-7	titanium dioxide	30 mg/m <sup>3</sup>
1309-37-1	diiron trioxide	15 mg/m <sup>3</sup>
1333-86-4	Carbon black	9 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	30 mg/m <sup>3</sup>

##### PAC-2:

64742-48-9	aliphatic hydrocarbons, C10-C13	1,800 mg/m <sup>3</sup>
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>
1309-37-1	diiron trioxide	360 mg/m <sup>3</sup>
1333-86-4	Carbon black	99 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	740 mg/m <sup>3</sup>

##### PAC-3:

64742-48-9	aliphatic hydrocarbons, C10-C13	40,000 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
1309-37-1	diiron trioxide	2,200 mg/m <sup>3</sup>
1333-86-4	Carbon black	590 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m <sup>3</sup>
34590-94-8	Dipropylene glycol monomethyl ether	2,000 mg/m <sup>3</sup>

## 7 Handling and storage

#### Handling:

**Precautions for safe handling** Keep receptacles tightly sealed.

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Use only in well ventilated areas.  
Keep away from heat and direct sunlight.  
Prevent formation of aerosols.

**Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store only in the original receptacle.  
Store in a cool location.

**Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).  
Do not store together with oxidizing and acidic materials.

**Further information about storage conditions:**

Store receptacle in a well ventilated area.  
Protect from frost.  
Keep receptacle tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.

**Storage class:**

10

**Specific end use(s)**

No further relevant information available.

**8 Exposure controls/personal protection****Additional information about design of technical systems:**

No further data; see item 7.

**Control parameters****Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

**34590-94-8 Dipropylene glycol monomethyl ether**

PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m <sup>3</sup> , 150 ppm Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
TLV	Short-term value: 909 mg/m <sup>3</sup> , 150 ppm Long-term value: 606 mg/m <sup>3</sup> , 100 ppm Skin

**Additional information:**

The lists that were valid during the creation were used as basis.

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**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.  
Do not carry product impregnated cleaning cloths in trouser pockets.  
Immediately remove all soiled and contaminated clothing.  
Keep away from foodstuffs, beverages and feed.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.

**Breathing equipment:**

Use suitable respiratory protective device only when aerosol or mist is formed.  
Not necessary if room is well-ventilated.  
Short term filter device:

**Protection of hands:**

Gas filter EN 14387 Type A (organic gas / vapor (boiling point > 65 ° C)).  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

Nitrile rubber, NBR

**Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

**As protection from splashes gloves made of the following materials are suitable:**

Nitrile rubber, NBR

**Eye protection:**

Goggles recommended during refilling.

**Body protection:**

Protective work clothing

**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Fluid  
**Color:** According to product specification  
**Odor:** Mild

**Change in condition**

**Melting point/Melting range:** Undetermined.

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<b>Boiling point/Boiling range:</b>	> 180 °C (>356 °F)
<b>Flash point:</b>	> 61 °C (>141.8 °F) (DIN EN ISO 2719)
<b>Ignition temperature:</b>	240 °C (464 °F)
<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	7.0 Vol %
<b>Density at 20 °C (68 °F):</b>	0.96-1.05 g/cm <sup>3</sup> (8.011-8.762 lbs/gal) (DIN 51757)
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 20 °C (68 °F):</b>	45-60 s (DIN 53211/3) >21 mm <sup>2</sup> /s (40°C)
<b>Solvent content:</b>	
<b>VOC content:</b>	< 400 g/l (<3.33 lb/gl)
<b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

<b>Reactivity</b>	No further relevant information available.
<b>Chemical stability</b>	
<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used and stored according to specifications.
<b>Possibility of hazardous reactions</b>	Reacts with fabric soaked in the product (e.g. cleaning wool). Reacts with acids, alkalis and oxidizing agents.
<b>Conditions to avoid</b>	No further relevant information available.
<b>Incompatible materials:</b>	No further relevant information available.
<b>Hazardous decomposition products:</b>	Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)
<b>Additional information:</b>	CAUTION: Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water filled metal container to prevent this.

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**11 Toxicological information****Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification:****64742-48-9 aliphatic hydrocarbons, C10-C13**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	21 mg/l (rat) (OECD 403)

**34590-94-8 Dipropylene glycol monomethyl ether**

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) 13,000-14,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	1,667 mg/l (rat)
	LC50 / 72h	0.76 mg/l (selenastrum capricornutum)

**60207-90-1 propiconazole**

Oral	LD50	1,517 mg/kg (rat) (OECD- Prüfrichtlinie 401)
Dermal	LD50	>4,000 mg/kg (rat)
Inhalative	LC50 / 4h	5.8 mg/l (rat) (403 Acute Inhalation Toxicity)

**13463-67-7 titanium dioxide**

Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)

**Primary irritant effect:****on the skin:** No irritant effect.**on the eye:** No irritating effect.**Sensitization:** Sensitizing effect by skin contact is possible with prolonged exposure.**60207-90-1 propiconazole**

Dermal	Sensibilisierung	(guinea pigs)
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**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
1309-37-1	diiron trioxide	3
1333-86-4	Carbon black	2B
14808-60-7	Quartz (SiO <sub>2</sub> )	1

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7631-86-9	silicon dioxide, chemically prepared	3
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**NTP (National Toxicology Program)**

14808-60-7	Quartz (SiO <sub>2</sub> )	K
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**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information****Toxicity****Aquatic toxicity:****64742-48-9 aliphatic hydrocarbons, C10-C13**

EC50 / 48h	>1,000 mg/l (daphnia) (OECD 202)
EC50/ 72h	>1,000 mg/l (algae) (OECD 201)
LC50 / 96h	>1,000 mg/l (fish) (OECD 203)
Biolog. Abbaubarkeit	% (leicht abbaubar)

**34590-94-8 Dipropylene glycol monomethyl ether**

EC50 / 48h (static)	1,919 mg/l (daphnia)
LC50 / 96h	5.3 mg/l (Oncorhynchus mykiss (Regenbogenforelle))
LC50 / 48h	10.2 mg/l (Oncorhynchus mykiss (Regenbogenforelle))

**60207-90-1 propiconazole**

EC50 / 48h	10.2 mg/l (daphnia) (Daphnia sp. Acute Immobilisation Test)
EC50/ 72h	9 mg/l (algae) (Freshwater Alga Growth Inhibition Test)
LC50 / 96h	4.3 mg/l (fish) (Fish Acute Toxicity Test)
LC50 / 48h	10.2 mg/l (fish)

**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Remark:** Harmful to fish**Additional ecological information:****General notes:** Water hazard class 2 (Self-assessment): hazardous for water  
Danger to drinking water if even small quantities leak into the ground.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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**Other adverse effects**

No further relevant information available.

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### 13 Disposal considerations

**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packagings:****Recommendation:**

Disposal must be made according to official regulations.

**Recommended cleansing agent:**

Solvent naphtha

### 14 Transport information

**UN-Number****DOT, ADR, ADN, IMDG, IATA**

Void

**UN proper shipping name****DOT, ADN, IMDG, IATA**

Void

**ADR**

Void

**Transport hazard class(es)****DOT, ADR, ADN, IMDG, IATA****Class**

Void

**Packing group****DOT, ADR, IMDG, IATA**

Void

**Environmental hazards:****Marine pollutant:**

No

**Special precautions for user**

Not applicable.

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

Not applicable.

**UN "Model Regulation":**

Void

### 15 Regulatory information

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Sara****Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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**Section 313 (Specific toxic chemical listings):**

60207-90-1	propiconazole
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**TSCA (Toxic Substances Control Act):**

All ingredients are listed.

**TSCA new (21st Century Act) (Substances not listed)**

60207-90-1	propiconazole
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**Proposition 65**
**Chemicals known to cause cancer:**

13463-67-7	titanium dioxide
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1333-86-4	Carbon black
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14808-60-7	Quartz (SiO <sub>2</sub> )
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**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogenicity categories**
**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	titanium dioxide	A4
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1309-37-1	diiron trioxide	A4
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1333-86-4	Carbon black	A4
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14808-60-7	Quartz (SiO <sub>2</sub> )	A2
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**NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	titanium dioxide
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1333-86-4	Carbon black
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14808-60-7	Quartz (SiO <sub>2</sub> )
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**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**


GHS07 GHS08

**Signal word**

Warning

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**Hazard-determining components  
of labeling:**
**Hazard statements**

propiconazole  
 H227 Combustible liquid.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.

**Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from flames and hot surfaces. – No smoking.  
 P261 Avoid breathing mist/vapours/spray.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves / eye protection.  
 P302+P352 If on skin: Wash with plenty of water.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P363 Wash contaminated clothing before reuse.  
 P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**National regulations:**
**Marking in accordance with european biocide guideline 98/8/EG**

60207-90-1 | propiconazole

9 g/kg

**Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:**

product safety department

**Contact:**

Hr. Dr. Starp

**Date of preparation / last revision**

06/22/2018 / 17

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 4: Flammable liquids – Category 4  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Sens. 1: Skin sensitisation – Category 1  
Carc. 2: Carcinogenicity – Category 2  
Carc. 2: Carcinogenicity – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

*\* Data compared to the previous  
version altered.*