

# Tempil® Aluminized Bloxide® Rust Preventative Coating

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations, Canada Hazardous Products Regulations (HPR) / Règlement sur les produits dangereux (RPD)  
Issue date: 7/12/2013 Revision date: 6/14/2022 Supersedes: 6/22/2021 Version: 5.0

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Tempil® Aluminized Bloxide® Rust Preventative Coating

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Coating  
Primer  
Recommended use : Industrial  
Restrictions on use : Any use not specified

#### 1.3. Supplier

LA-CO Industries  
1201 Pratt Blvd.  
Elk Grove Village, IL, 60007-5746  
US  
T 847-956-7600 - F 847-956-9885  
[customer\\_service@laco.com](mailto:customer_service@laco.com)

#### 1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887;  
全国应急中心 0532 8388 9090

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids, Category 3	H226	Flammable liquid and vapour.
Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Skin sensitisation, Category 1	H317	May cause an allergic skin reaction.
Reproductive toxicity, Category 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness.
Specific target organ toxicity – Repeated exposure, Category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304	May be fatal if swallowed and enters airways.
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412	Harmful to aquatic life with long lasting effects.

Full text of H-statements: see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

Hazard statements (GHS\_US) :

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.  
H332 - Harmful if inhaled.  
H336 - May cause drowsiness or dizziness.

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### Precautionary statements (GHS)

H361 - Suspected of damaging fertility or the unborn child.  
H372 - Causes damage to organs through prolonged or repeated exposure.  
H412 - Harmful to aquatic life with long lasting effects.

: 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. heat, open flames, sparks  
P233 - Keep container tightly closed.  
P240 - Ground/Bond container and receiving equipment.  
P241 - Use explosion-proof ventilating, lighting, electrical equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P260 - Do not breathe mist, spray, vapours.  
P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P272 - Contaminated work clothing must not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective clothing, protective gloves.  
P301+P310 - If swallowed: Immediately call a POISON CENTER, a doctor.  
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/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 or doctor/physician if you feel unwell.  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
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 carbon dioxide (CO<sub>2</sub>), Foam, sand to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

No data available

### 2.4. Unknown acute toxicity (GHS\_US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	% (w/w)	GHS US classification
Xylenes	CAS-No.: 1330-20-7	40 - 60	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
ethylbenzene	CAS-No.: 100-41-4	5 - 20	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332

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Name	Product identifier	% (w/w)	GHS US classification
			STOT RE 2, H373 Asp. Tox. 1, H304
Naphtha, petroleum, hydrotreated light (benzene < 0.1%)	CAS-No.: 64742-49-0	5 - <18	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H336 Asp. Tox. 1, H304
Stoddard solvent (benzene < 0.1%)	CAS-No.: 8052-41-3	3 - 7	Flam. Liq. 3, H226 STOT RE 1, H372 Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light	CAS-No.: 64742-47-8	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated	CAS-No.: 68002-25-5	1 - 3	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312
1-Butanol	CAS-No.: 71-36-3	1 - <2	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
cobalt bis(2-ethylhexanoate)	CAS-No.: 136-52-7	0.1 - 0.5	Eye Irrit. 2A, H319 Skin Sens. 1A, H317 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or a doctor if you feel unwell.
- First-aid measures after skin contact : Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Wash skin thoroughly with mild soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects (acute and delayed)

- Symptoms/effects : May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness.
- Symptoms/effects after inhalation : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if

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	inhaled.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May damage lungs if swallowed and aspirated. Risk of lung oedema.

### 4.3. Immediate medical attention and special treatment, if necessary

All treatments should be based on observed signs and symptoms of distress in the patient.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapour. Flammable vapours may accumulate in the container. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source.
Explosion hazard	: May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide.

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

Precautionary measures fire	: Store in dry, cool, well-ventilated area. Keep upwind.
Firefighting instructions	: Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus. Do not attempt to take action without suitable protective equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe aerosol. Do not breathe vapour.
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#### 6.1.1. For non-emergency personnel

Protective equipment	: Refer to section 8.2.
Emergency procedures	: Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe vapours.

#### 6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Refer to section 8.2. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment	: Eliminate all ignition sources. Absorb and/or contain spill with inert material, then place in suitable container.
Methods for cleaning up	: Take up liquid spill into absorbent material. Wipe up with absorbent material (for example cloth). Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like cermiculite, sand, or earth to soak up the product and place into a container for later disposal. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.
- Precautions for safe handling : No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Do not handle until all safety precautions have been read and understood. Do not breathe aerosol. Do not breathe vapours. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly.
- Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.
- Storage conditions : Keep container tightly closed. Keep away from open flames, hot surfaces and sources of ignition. Store in a well-ventilated place. Keep cool. Store locked up.
- Incompatible products : Strong oxidizing agents. Strong acids. Alkali.
- Heat and ignition sources : Keep away from heat, sparks and flame.
- Prohibitions on mixed storage : Keep away from incompatible materials.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Tempil® Aluminized Bloxide® Rust Preventative Coating

No data available

##### 1-Butanol (71-36-3)

###### USA - ACGIH - Occupational Exposure Limits

Local name	n-Butanol
ACGIH OEL TWA [ppm]	20 ppm
Remark (ACGIH)	Eye & URT irr
Regulatory reference	ACGIH 2022

###### USA - OSHA - Occupational Exposure Limits

Local name	n-Butyl alcohol
OSHA PEL TWA [1]	300 mg/m <sup>3</sup>
OSHA PEL TWA [2]	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

###### USA - NIOSH - Occupational Exposure Limits

NIOSH REL C	150 mg/m <sup>3</sup>
NIOSH REL C [ppm]	50 ppm

##### 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)

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### 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)

No data available

### Stoddard solvent (benzene < 0.1%) (8052-41-3)

#### USA - ACGIH - Occupational Exposure Limits

Local name	Stoddard solvent
ACGIH TWA (mg/m <sup>3</sup> )	572 mg/m <sup>3</sup>
ACGIH OEL TWA [ppm]	100 ppm
Remark (ACGIH)	TLV® Basis: Eye, skin, & kidney dam; nausea; CNS impair
Regulatory reference	ACGIH 2022

#### USA - OSHA - Occupational Exposure Limits

Local name	Stoddard solvent
OSHA PEL TWA [1]	2900 mg/m <sup>3</sup>
OSHA PEL TWA [2]	500 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### USA - NIOSH - Occupational Exposure Limits

NIOSH REL TWA	350 mg/m <sup>3</sup>
NIOSH REL C	1800 mg/m <sup>3</sup>

### cobalt bis(2-ethylhexanoate) (136-52-7)

#### USA - ACGIH - Occupational Exposure Limits

Local name	Cobalt and inorganic compounds, as Co
ACGIH TWA (mg/m <sup>3</sup> )	0.02 mg/m <sup>3</sup> (I - Inhalable particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm func changes. Notations: DSEN; RSEN; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2021

#### USA - ACGIH - Biological Exposure Indices

Local name	COBALT AND INORGANIC COMPOUNDS
BEI	15 µg/l Parameter: Cobalt - Medium: urine - Sampling time: End of shift at end of workweek - Notations: Ns
Regulatory reference	ACGIH 2021

#### USA - OSHA - Occupational Exposure Limits

Local name	Cobalt metal, dust, and fume (as Co)
OSHA PEL TWA [1]	0.1 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### USA - NIOSH - Occupational Exposure Limits

NIOSH REL TWA	0.05 mg/m <sup>3</sup>
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### Xylenes (1330-20-7)

#### USA - ACGIH - Occupational Exposure Limits

Local name	Xylene, mixed isomers (Dimethylbenzene)
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<b>Xylenes (1330-20-7)</b>	
ACGIH TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
ACGIH OEL TWA [ppm]	20 ppm
ACGIH STEL (mg/m <sup>3</sup> )	651 mg/m <sup>3</sup>
ACGIH OEL STEL [ppm]	150 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; hematologic eff; ototoxicity (for mixtures containing p-xylene); CNS impair. Notations: OTO (for mixtures containing p-xylene); A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2022
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	XYLENES (Technical or commercial grade)
BEI	1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2022
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Xylenes (o-, m-, p-isomers)
OSHA PEL TWA [1]	435 mg/m <sup>3</sup>
OSHA PEL TWA [2]	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL TWA	435 mg/m <sup>3</sup>
NIOSH REL TWA [ppm]	100 ppm
NIOSH REL STEL	655 mg/m <sup>3</sup>
NIOSH REL STEL [ppm]	150 ppm
<b>ethylbenzene (100-41-4)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Ethylbenzene
ACGIH TWA (mg/m <sup>3</sup> )	434 mg/m <sup>3</sup>
ACGIH OEL TWA [ppm]	20 ppm
ACGIH STEL (mg/m <sup>3</sup> )	543 mg/m <sup>3</sup>
ACGIH OEL STEL [ppm]	125 ppm
Remark (ACGIH)	TLV® Basis: URT & eye irr; ototoxicity; kidney eff; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2022
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	ETHYLBENZENE
BEI	0.15 g/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid (with hydrolysis) - Medium: urine - Sampling time: End of shift - Notations: Ns
Regulatory reference	ACGIH 2022

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### ethylbenzene (100-41-4)

#### USA - OSHA - Occupational Exposure Limits

Local name	Ethyl benzene
OSHA PEL TWA [1]	435 mg/m <sup>3</sup>
OSHA PEL TWA [2]	100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

#### USA - NIOSH - Occupational Exposure Limits

NIOSH REL TWA	435 mg/m <sup>3</sup>
NIOSH REL TWA [ppm]	100 ppm
NIOSH REL STEL	545 mg/m <sup>3</sup>
NIOSH REL STEL [ppm]	125 ppm

### Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)

No data available

### Distillates (petroleum), hydrotreated light (64742-47-8)

No data available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Avoid creating mist or spray. Either local exhaust or general room ventilation is usually required. Avoid splashing. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear suitable gloves resistant to chemical penetration. Impermeable protective nitrile gloves. EN 374

#### Eye protection:

In case of splashing or aerosol production: Protective goggles. Safety glasses. (EN 166)

#### Skin and body protection:

Wear suitable protective clothing. Impervious clothing.

#### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.

#### Personal protective equipment symbol(s):



#### Other information:

Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties



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

Physical state	: Liquid
Colour	: Silver
Odour	: Solvent
Odour threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 115 (115 – 140) °C
Flash point	: 26.7 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Flammable liquid and vapour.
Vapour pressure	: 8 mm Hg
Relative vapour density at 20 °C	: No data available
Relative density	: Specific gravity 0.918
Solubility	: insoluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: < 10 mm <sup>2</sup> /s @ 40 °C
Viscosity, dynamic	: No data available
Explosive limits	: 1 – 7 vol %
Explosive properties	: No data available
Oxidising properties	: No data available

### 9.2. Other information

VOC content : 5.73 lb/gal.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

Strong oxidizers. Strong acids. Alkali.

### 10.6. Hazardous decomposition products

May release flammable gases. Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.

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ATE (dust,mist)	1.748 mg/l/4h
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### 1-Butanol (71-36-3)

LD50 Oral rat	2292 mg/kg Source: ECHA
LD50 Dermal rabbit	3430 mg/kg Source: ECHA

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### 1-Butanol (71-36-3)

LC50 Inhalation rat [ppm]	8000 ppm Source: ECHA
ATE (oral)	500 mg/kg bodyweight
ATE (dermal)	3430 mg/kg bodyweight
ATE (gases)	8000 ppmv/4h

### 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)

LD50 Oral rat	> 1100 mg/kg
LD50 Dermal rabbit	1800 mg/kg
LC50 Inhalation rat	> 6 mg/l/4h
ATE (dermal)	1800 mg/kg bodyweight

### Stoddard solvent (benzene < 0.1%) (8052-41-3)

LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 10 mg/l/4h

### cobalt bis(2-ethylhexanoate) (136-52-7)

LD50 Oral rat	3129 (1750 – 5000) mg/l
LD50 Dermal rat	> 2000 mg/kg
LC50 Inhalation rat	> 2000 mg/kg
ATE (oral)	3129 mg/kg bodyweight

### Xylenes (1330-20-7)

LD50 Oral rat	> 3500 mg/kg
LD50 Dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
LC50 Inhalation rat [ppm]	5922 ppm
ATE (dermal)	1100 mg/kg bodyweight
ATE (gases)	5922 ppmv/4h
ATE (vapours)	11 mg/l/4h
ATE (dust,mist)	1.5 mg/l/4h

### ethylbenzene (100-41-4)

LD50 Oral rat	3500 mg/kg
LD50 Dermal rabbit	17.8 ml/kg
LC50 Inhalation rat [ppm]	< 1500 ppm
ATE (oral)	3500 mg/kg bodyweight
ATE (dermal)	17800 mg/kg bodyweight
ATE (gases)	4500 ppmv/4h
ATE (vapours)	11 mg/l/4h
ATE (dust,mist)	1.5 mg/l/4h

### Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)

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<b>Naphtha, petroleum, hydrotreated light (benzene &lt; 0.1%) (64742-49-0)</b>	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 5610 mg/m <sup>3</sup> air (analytical)
LC50 Inhalation rat [ppm]	73680 ppm Source: IUCLID
ATE (gases)	73680 ppmv/4h
ATE (dust,mist)	1.5 mg/l/4h
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
<b>Xylenes (1330-20-7)</b>	
IARC group	3 - Not classifiable
<b>ethylbenzene (100-41-4)</b>	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.
<b>1-Butanol (71-36-3)</b>	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
<b>Naphtha, petroleum, hydrotreated light (benzene &lt; 0.1%) (64742-49-0)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>	
NOAEL (oral, rat, 90 days)	1056 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Remarks on results: other:
NOAEL (dermal, rat/rabbit, 90 days)	2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.31 mg/l air Animal: rat
NOAEL (oral, rat, 90 days)	3 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
<b>Xylenes (1330-20-7)</b>	

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### Xylenes (1330-20-7)

LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)
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### ethylbenzene (100-41-4)

NOAEL (oral, rat, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
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STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: < 10 mm <sup>2</sup> /s @ 40 °C
Likely routes of exposure	: Skin and eye contact. Inhalation.
Symptoms/effects	: May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May damage lungs if swallowed and aspirated. Risk of lung oedema.
Other information	: No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
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### 1-Butanol (71-36-3)

LC50 fish 1	1376 mg/l Source: ECHA
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EC50 crustacea	1983 mg/l Source: ECHA
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### Stoddard solvent (benzene < 0.1%) (8052-41-3)

LC50 fish 1	2.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
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NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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### cobalt bis(2-ethylhexanoate) (136-52-7)

LC50 fish 1	275 mg/l 96 h
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EC50 crustacea	0.441 mg/l 48 h
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LOEC (chronic)	0.43 mg/l 34 days read-across cobalt dichloride
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NOEC (chronic)	0.21 mg/l 34 days read-across cobalt dichloride
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### Xylenes (1330-20-7)

LC50 fish 1	2.6 mg/l Source: ECHA
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EC50 crustacea	> 3.4 mg/l Test organisms (species): Ceriodaphnia dubia
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LOEC (chronic)	3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
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NOEC chronic fish	> 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d'
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### ethylbenzene (100-41-4)

LC50 fish 1	5.1 mg/l
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<b>ethylbenzene (100-41-4)</b>	
EC50 other aquatic organisms 1	7.7 mg/l
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
NOEC (acute)	3.3 mg/l
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'
<b>Naphtha, petroleum, hydrotreated light (benzene &lt; 0.1%) (64742-49-0)</b>	
LC50 fish 1	5.4 mg/l 48 h
LC50 other aquatic organisms 1	2.6 mg/l Source: IUCLID
<b>Distillates (petroleum), hydrotreated light (64742-47-8)</b>	
LC50 fish 1	25 mg/l 96 h Oncorhynchus mykiss
EC50 crustacea	1.4 mg/l 48 h

### 12.2. Persistence and degradability

<b>Tempil® Aluminized Bloxide® Rust Preventative Coating</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
Persistence and degradability	Readily biodegradable.
<b>ethylbenzene (100-41-4)</b>	
Persistence and degradability	Not established.
<b>Naphtha, petroleum, hydrotreated light (benzene &lt; 0.1%) (64742-49-0)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	77 % 28 d

### 12.3. Bioaccumulative potential

<b>Tempil® Aluminized Bloxide® Rust Preventative Coating</b>	
Bioaccumulative potential	Not established.
<b>1-Butanol (71-36-3)</b>	
Log Pow	1 Source: ECHA
<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>	
Log Pow	3.16 – 7.15
<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
BCF fish 1	2300 (2300 – 3900)
Log Pow	2.96 Source: ECHA
<b>Xylenes (1330-20-7)</b>	
BCF fish 1	1.3 mg/l
Log Pow	3.15 Source: HSDB
Bioaccumulative potential	Not expected to bioaccumulate.
<b>ethylbenzene (100-41-4)</b>	
Log Pow	3.15 Source: HSDB

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### ethylbenzene (100-41-4)

Bioaccumulative potential : Not established.

### Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)

Log Pow : 2.1 – 6 Source: IUCLID

### Distillates (petroleum), hydrotreated light (64742-47-8)

Log Pow : 3.3 – 6 Source: IUCLID

## 12.4. Mobility in soil

### Tempil® Aluminized Bloxide® Rust Preventative Coating

Ecology - soil : Not established.

## 12.5. Other adverse effects

Other information : No data available.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Do not dispose of waste into sewer.  
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology - waste materials : Hazardous waste due to toxicity.

## SECTION 14: Transport information

### 14.1. UN number

DOT NA No : UN1263  
UN-No. (TDG) : UN1263  
UN-No. (IMDG) : 1263  
UN-No. (IATA) : 1263

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Paint  
Proper Shipping Name (TDG) : PAINT  
Proper Shipping Name (IMDG) : PAINT  
Proper Shipping Name (IATA) : PAINT

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT) : 3  
Hazard labels (DOT) : 3



#### TDG

Transport hazard class(es) (TDG) : 3

#### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3

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### IATA

Transport hazard class(es) (IATA) : 3  
Danger labels (IATA) : 3



### 14.4. Packing group

Packing group (DOT) : III  
Packing group (TDG) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III

### 14.5. Environmental hazards

Other information : No supplementary information available.

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

1-Butanol	CAS-No. 71-36-3	1 - <2%
Xylenes	CAS-No. 1330-20-7	40 - 60%
ethylbenzene	CAS-No. 100-41-4	5 - 20%
Aluminium powder (stabilised)	CAS-No. 7429-90-5	5 - 15%

#### 1-Butanol (71-36-3)

CERCLA RQ : 5000 lb

#### Xylenes (1330-20-7)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ : 100 lb

#### ethylbenzene (100-41-4)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ : 1000 lb

### 15.2. International regulations

#### Tempil® Aluminized Bloxide® Rust Preventative Coating

All ingredients are listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).

#### 1-Butanol (71-36-3)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

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### 1-Butanol (71-36-3)

Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### 1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Stoddard solvent (benzene < 0.1%) (8052-41-3)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on Taiwan National Chemical Inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### cobalt bis(2-ethylhexanoate) (136-52-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### Xylenes (1330-20-7)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on Taiwan National Chemical Inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on the Chinese Catalog of Hazardous Chemicals.  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### ethylbenzene (100-41-4)

Listed on IARC (International Agency for Research on Cancer)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Chinese Catalog of Hazardous Chemicals.  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on INSQ (Mexican National Inventory of Chemical Substances)



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### Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on Taiwan National Chemical Inventory  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)

### Distillates (petroleum), hydrotreated light (64742-47-8)

Listed on KECI (Korean Existing Chemicals Inventory)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ENCS (Existing New Chemical Substances) inventory  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

### 15.3. US State regulations

 **WARNING:** This product can expose you to Formaldehyde, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Component	State or local regulations
1-Butanol(71-36-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Stoddard solvent (benzene < 0.1%)(8052-41-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Xylenes(1330-20-7)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
ethylbenzene(100-41-4)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Revision date : 06/14/2022  
Data sources : ESIS (European chemical Substances Information System; accessed at: <http://esis.jrc.ec.europa.eu/index.php?PGM=cla>. ACGIH 2000. European Chemicals Agency (ECHA) Registered Substances list. Accessed at <http://echa.europa.eu/>. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition. OSHA 29CFR 1910.1200 Hazard Communication Standard. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>.  
Other information : None.

### Full text of H-statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

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### Full text of H-statements

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Abbreviations and acronyms

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE: Acute Toxicity Estimate
	CAS (Chemical Abstracts Service) number
	CLP: Classification, Labelling, Packaging.
	DNEL: Derived No Effect Level
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	LD50: Lethal Dose for 50% of the test population
	NOEC: No Observable Effect Concentration
	OSHA: Occupational Safety & Health Administration
	PBT: Persistent, Bioaccumulative, Toxic
	PNEC: Predicted No Effect Level
	STEL: Short Term Exposure Limits
	TSCA: Toxic Substances Control Act
	TWA: Time Weighted Average
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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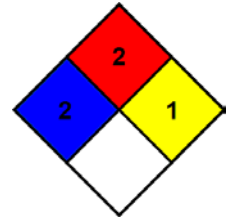
Abbreviations and acronyms	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
NFPA reactivity	: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



### Indication of changes:

Composition/information on ingredients.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.