

Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)

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)
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SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Coating
 Primer
 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



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 aerosols, Category 1	H222	Extremely flammable aerosol.
Gases under pressure : Compressed gas	H280	Contains gas under pressure; may explode if heated.
Acute toxicity (inhalation:gas) 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.
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) :

H222 - Extremely flammable aerosol.
 H280 - Contains gas under pressure; may explode if heated.
 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. P211 - Do not spray on an open flame or other ignition source. P251 - Do not pierce or burn, even after use. P260 - Do not breathe mist, spray, vapours. P264 - Wash hands, forearms and face 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 gloves, protective clothing. P302+P352 - If on skin: Wash with plenty of soap, water. 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 doctor if you feel unwell. 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. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P410+P403 - Protect from sunlight. Store in a well-ventilated place. P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
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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
Solvent naphtha (petroleum), light aliph (benzene < 0.1%)	CAS-No.: 64742-89-8	25 - 35	Asp. Tox. 1, H304
Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%)	CAS-No.: 68410-97-9	25 - 35	Flam. Liq. 2, H225 Asp. Tox. 1, H304
Naphtha, petroleum, hydrotreated light (benzene < 0.1%)	CAS-No.: 64742-49-0	25 - 35	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

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Name	Product identifier	% (w/w)	GHS US classification
Stoddard solvent (benzene < 0.1%)	CAS-No.: 8052-41-3	1 - 5	Flam. Liq. 3, H226 STOT RE 1, H372 Asp. Tox. 1, H304
diacetone alcohol	CAS-No.: 123-42-2	1 - 5	Flam. Liq. 4, H227 Eye Irrit. 2A, H319
1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated	CAS-No.: 68002-25-5	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312
1-Butanol	CAS-No.: 71-36-3	1 - 5	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
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%)	CAS-No.: 64742-95-6	0.1 - 3	Flam. Liq. 3, H226 Asp. Tox. 1, H304
cobalt bis(2-ethylhexanoate)	CAS-No.: 136-52-7	0.1 - 1	Eye Irrit. 2A, H319 Skin Sens. 1A, H317 Repr. 2, H361 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 : If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : Take off contaminated clothing. Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Direct contact with the eyes is likely to be irritating. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects : Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness.
- Symptoms/effects after inhalation : Shortness of breath. Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause cancer by inhalation. May cause drowsiness or dizziness.
- Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction. Rapid evaporation of the liquid may cause frostbite. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Causes serious eye irritation.
- Symptoms/effects after ingestion : Nausea. Vomiting.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol. Heating may cause a fire or explosion.
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. May form flammable/explosive vapour-air mixture. Pressurised container: May burst if heated.
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. Stop leak if safe to do so. Keep upwind.
Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Complete protective clothing. Wear fire/flame resistant/retardant clothing. EN469.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges. Do not touch spilled material. Do not breathe aerosol.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.
Emergency procedures : Evacuate unnecessary personnel. Do not get in eyes, on skin, or on clothing. No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe mist, vapours, spray.

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 : Stop leak if safe to do so. Ventilate area. Keep upwind.

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Eliminate all ignition sources. Stop leak if safe to do so.
Methods for cleaning up : Wipe up with absorbent material (for example cloth). Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like cerniculite, sand, or earth to soak up the product and place into a container for later disposal. Mechanically recover the product. 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion. Do not pierce or burn, even after use. Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling : Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated

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area. Do not get in eyes, on skin, or on clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist, spray, vapours. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. 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. Wear personal protective equipment. 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. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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. Use only non-sparking tools. Use explosion-proof electrical, lighting, ventilating equipment.

Storage conditions

: Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Keep container tightly closed. Keep only in the original container. Protect from sunlight. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible products

: Strong oxidizers. Strong acids. Alkali.

Heat and ignition sources

: Keep away from heat, sparks and flame.

Prohibitions on mixed storage

: Incompatible materials.

Storage area

: Store in dry, cool, well-ventilated area. Protect from freezing. Keep out of direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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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 ³
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 ³
NIOSH REL C [ppm]	50 ppm

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)

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Stoddard solvent (benzene < 0.1%) (8052-41-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Stoddard solvent
ACGIH TWA (mg/m ³)	572 mg/m ³
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 ³
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 ³
NIOSH REL C	1800 mg/m ³
cobalt bis(2-ethylhexanoate) (136-52-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Cobalt and inorganic compounds, as Co
ACGIH TWA (mg/m ³)	0.02 mg/m ³ (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 ³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	0.05 mg/m ³
Solvent naphtha (petroleum), light aliph (benzene < 0.1%) (64742-89-8)	
No data available	
diacetone alcohol (123-42-2)	
USA - ACGIH - Occupational Exposure Limits	

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diacetone alcohol (123-42-2)	
Local name	Diacetone alcohol
ACGIH TWA (mg/m³)	238 mg/m³
ACGIH OEL TWA [ppm]	50 ppm
Remark (ACGIH)	URT & eye irr
USA - OSHA - Occupational Exposure Limits	
Local name	(4-Hydroxy-4-methyl-2-pentanone)
OSHA PEL TWA [1]	240 mg/m³
OSHA PEL TWA [2]	50 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL TWA	240 mg/m³
NIOSH REL TWA [ppm]	50 ppm
Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%) (68410-97-9)	
No data available	
Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)	
No data available	
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
No data available	

8.2. Appropriate engineering controls

- Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Emergency safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation. Ensure good ventilation of the work station.
- Environmental exposure controls : Prevent leakage or spillage. Prevent contaminated water run-off. 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. Nitrile rubber gloves. EN374

Eye protection:

Chemical goggles or safety glasses. EN166

Skin and body protection:

Wear suitable protective clothing. Long sleeved protective clothing. Impervious clothing.

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Use an approved respirator equipped with oil/mist cartridges. EN 12083

Personal protective equipment symbol(s):

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Other information:

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol
Colour	: Silver
Odour	: Solvent
Odour threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: -187.6 °C
Boiling point	: -43.78 °C
Flash point	: -104.4 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: 2238.41 hPa
Relative vapour density at 20 °C	: No data available
Relative density	: 0.78
Density	: 6.51 lb/gal
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: 287.78 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: Pressurised container: May burst if heated.
Oxidising properties	: No data available

9.2. Other information

VOC content	: 657.805816 g/l
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SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known. Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat. Direct sunlight. Overheating. 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. Vapour could travel to source of ignition and flash back. Carbon oxides (CO, CO₂).

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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 (gases)	4500 ppmv/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
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

Solvent naphtha (petroleum), light aliph (benzene < 0.1%) (64742-89-8)

LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 7630 mg/m ³

diacetone alcohol (123-42-2)

LD50 Oral rat	4000 mg/kg
LD50 Dermal rabbit	13630 mg/kg
ATE (oral)	4000 mg/kg bodyweight
ATE (dermal)	13630 mg/kg bodyweight

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Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%) (68410-97-9)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)	
LD50 Oral rat	> 5000 mg/kg
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 5610 mg/m ³ air (analytical)
LC50 Inhalation rat [ppm]	73680 ppm Source: IUCLID
ATE (gases)	73680 ppmv/4h
ATE (dust,mist)	1.5 mg/l/4h
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
LD50 Oral rat	8400 mg/kg Source: RTECS
LD50 Dermal rat	> 2000 mg/kg Source: ECHA
LD50 Dermal rabbit	> 2000 mg/kg
LC50 Inhalation rat	> 5610 mg/l/4h
ATE (oral)	8400 mg/kg bodyweight
ATE (vapours)	5.16 mg/l/4h
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
Solvent naphtha (petroleum), light aliph (benzene < 0.1%) (64742-89-8)	
NOAEL (chronic, oral, animal/male, 2 years)	0.05 mg/kg bodyweight mL
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: May cause drowsiness or dizziness.
1-Butanol (71-36-3)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)	
STOT-single exposure	May cause drowsiness or dizziness.
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Stoddard solvent (benzene < 0.1%) (8052-41-3)	
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.
cobalt bis(2-ethylhexanoate) (136-52-7)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.31 mg/l air Animal: rat

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

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Likely routes of exposure	: Inhalation. Skin and eye contact.
Symptoms/effects	: Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. May cause drowsiness or dizziness.
Symptoms/effects after inhalation	: Shortness of breath. Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause cancer by inhalation. May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation. May cause an allergic skin reaction. Rapid evaporation of the liquid may cause frostbite. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Nausea. Vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Ecology - water	: Harmful to aquatic life with long lasting effects.

1-Butanol (71-36-3)	
LC50 fish 1	1376 mg/l Source: ECHA
EC50 crustacea	1983 mg/l Source: ECHA

Stoddard solvent (benzene < 0.1%) (8052-41-3)	
LC50 fish 1	2.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
NOEC (chronic)	0.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

cobalt bis(2-ethylhexanoate) (136-52-7)	
LC50 fish 1	275 mg/l 96 h
EC50 crustacea	0.441 mg/l 48 h
LOEC (chronic)	0.43 mg/l 34 days read-across cobalt dichloride
NOEC (chronic)	0.21 mg/l 34 days read-across cobalt dichloride

Solvent naphtha (petroleum), light aliph (benzene < 0.1%) (64742-89-8)	
LC50 fish 1	8.2 mg/l 96 h, pimephales promelas
EC50 crustacea	4.5 mg/l 48 h

diacetone alcohol (123-42-2)	
LC50 fish 1	420 mg/l 96 h
EC50 crustacea	9000 mg/l 24 h

Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)	
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Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)	
LC50 fish 1	5.4 mg/l 48 h
LC50 other aquatic organisms 1	2.6 mg/l Source: IUCLID
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
LC50 fish 1	9.22 mg/l Source: IUCLID
EC50 crustacea	6.14 mg/l Source: IUCLID
EC50 other aquatic organisms 1	3.7 mg/l
NOEC (acute)	0.5 mg/l

12.2. Persistence and degradability

Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)	
Persistence and degradability	May cause long-term adverse effects in the environment.
cobalt bis(2-ethylhexanoate) (136-52-7)	
Persistence and degradability	Readily biodegradable.
Solvent naphtha (petroleum), light aliph (benzene < 0.1%) (64742-89-8)	
Persistence and degradability	Readily biodegradable.
Biodegradation	77.05 % 28 d
diacetone alcohol (123-42-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % 14 d
Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%) (68410-97-9)	
Persistence and degradability	inherently biodegradable.
Biodegradation	74 % 28 days
Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	77 % 28 d
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)	
Bioaccumulative potential	Not established.
1-Butanol (71-36-3)	
Log Pow	1 Source: ECHA
Stoddard solvent (benzene < 0.1%) (8052-41-3)	
Log Pow	3.16 – 7.15
cobalt bis(2-ethylhexanoate) (136-52-7)	
BCF fish 1	2300 (2300 – 3900)

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cobalt bis(2-ethylhexanoate) (136-52-7)	
Log Pow	2.96 Source: ECHA
diacetone alcohol (123-42-2)	
Log Pow	1.03
Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)	
Log Pow	2.1 – 6 Source: IUCLID
Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)	
Log Pow	2.1 – 6 Source: IUCLID
Bioaccumulative potential	Not established.

12.4. Mobility in soil

Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)	
Ecology - soil	No data available.

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 : Container under pressure. Do not drill or burn even after use. Do not pierce or burn, even after use. Dispose in a safe manner in accordance with local/national regulations.
Additional information : Flammable vapours may accumulate in the container.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

DOT NA No : UN1950
UN-No. (TDG) : Not applicable
UN-No. (IMDG) : 1950
UN-No. (IATA) : 1950

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Aerosols
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : AEROSOLS
Proper Shipping Name (IATA) : AEROSOLS

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 2.1
Hazard labels (DOT) : 2.1



TDG

Transport hazard class(es) (TDG) : Not applicable

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IMDG

Transport hazard class(es) (IMDG) : 2.1
Danger labels (IMDG) : 2.1



IATA

Transport hazard class(es) (IATA) : 2.1
Danger labels (IATA) : 2.1



14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

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 - 5%
Aluminium powder (stabilised)	CAS-No. 7429-90-5	8.052 – 11.407%

1-Butanol (71-36-3)

CERCLA RQ	5000 lb
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15.2. International regulations

Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)

All ingredients are listed in the Toxic Substances Control Act (TSCA).

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

All components are listed on the EEC inventory European Inventory of Existing Commercial Chemical Substances (EINECS).

1-Butanol (71-36-3)

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

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1-Butanol (71-36-3)

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)

Solvent naphtha (petroleum), light aliph (benzene < 0.1%) (64742-89-8)

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

diacetone alcohol (123-42-2)

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

Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%) (68410-97-9)

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)

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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)

Solvent naphtha (petroleum), light arom., Low boiling point naphtha - unspecified (benzene <0.1%) (64742-95-6)

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

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.

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

SECTION 16: Other information

Revision date : 06/17/2022
Data sources : European Chemicals Agency (ECHA) C&L Inventory database. Accessed at <http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database>. 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. TSCA Chemical Substance Inventory. Accessed at <http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html>. ACGIH (American Conference of Government Industrial Hygienists).
Other information : None.

Full text of H-statements

H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H227	Combustible liquid

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Full text of H-statements	
H280	Contains gas under pressure; may explode if heated.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms	
	CAS (Chemical Abstracts Service) number
	GHS: Globally Harmonized System (of Classification and Labeling of Chemicals).
	OSHA: Occupational Safety & Health Administration
	TSCA: Toxic Substances Control Act
	ATE: Acute Toxicity Estimate
	CLP: Classification, Labelling, Packaging.
	EC50: Environmental Concentration associated with a response by 50% of the test population.
	European List of Waste (LoW) code
	LD50: Lethal Dose for 50% of the test population
	STEL: Short Term Exposure Limits
	TWA: Time Weighted Average
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value

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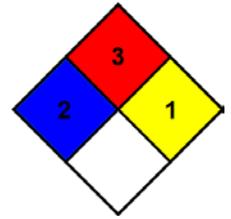
Abbreviations and acronyms	
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	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 : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
- 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. Classification.

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.