

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

Date of issue: 5/11/2016 Revision date: 4/24/2017 Version: 2.0

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

#### 1.1. Product identifier

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

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Coating Primer.

##### 1.2.2. Uses advised against

Restrictions on use : No additional information available

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

LA-CO Industries Europe S.A.S.

Parc Industriel de la Plaine de

l'Ain - Allée des Combes.

01150.BLYES.France.

Phone: +33 (0)4 74 46 23 23

Fax: +33 (0)4 74 46 23 29

E-mail: info@eu.laco.com

Web: http://www.markal.com



#### 1.4. Emergency telephone number

Emergency number : 24-hour emergency: CHEMTREC- U.S. : 1-800-424-9300 International: +1-703-527-3887

EU Member State	Officieel adviesorgaan	Adres	Noodnummer
AUSTRIA	Vergiftungsinformationszentrale (Poisons Information Centre)	Allgemeines Krankenhaus Waehringer Geurtel 18-20 1090 Wien	+43 1 406 43 43
BELARUS	The Belarus Republican Poisons Centre	Kizhevatova str. 58 220115 Minsk	+375 (0)17 201 9158
BELGIUM	Centre Anti-Poisons/Antigifocentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245
BULGARIA	Национален токсикологичен информационен център National Clinical Toxicology Centre, Emergency Medical Institute "Pirogov"	21 Totleben Boulevard 1606 SOFIA	+359 2 9154 409
CROATIA	Poisons Control Centre Institute of Medical Research & Occupational Health	Ksaverska Cesta 2 P.O. Box 291 HR-10000 Zagreb	+385 1 234 8342
CZECH REPUBLIC	Toxikologické informační středisko Clinic For Occupational Medicine, 1st Medical Faculty, Charles University	Na Bojišti 1 120 00 Praha 2	+42 2 2491 9293 +42 2 2491 5402
DENMARK	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23, 60, 1 DK-2400 København NV	+45 82 12 12 12 +45 35 31 55 55
ESTONIA	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	+372 626 93 90
FINLAND	Myrkytystietokeskus	P.O.B 340 (Haartmaninkatu 4) HUS SF - 00029 Helsinki	+358 9 471 977
FRANCE	ORFILA		+33 1 45 42 59 59
GERMANY	Berliner Betrieb für Zentrale Gesundheitliche Aufgaben	Oranienburger Strasse 285 13437 Berlin	+49 30 19240
GERMANY	Informations und Beratungszentrum für Vergiftungsfälle	Kirrberger Straße, Gebäude 9 D-66421 Homburg/Saar	+49 6841 19240
GERMANY	Beratungstelle bei Vergiftungen, Klinische Toxikologie und Beratungsstelle bei Vergiftungen	Langenbeckstrasse 1 55131 Mainz	+49 6131 19240
GREECE	Poisons Information Centre	11527 Athens	+30 10 779 3777
HUNGARY	Országos Kémiai Biztonsági Intézet (National Institute of Chemical Safety) Egészségügyi Toxikológiai Tájékoztató Szolgálat (Health Toxicological Information Service)	1437 Budapest PO Box 839 1097 Budapest, Nagyvárad tér 2	+36 80 20 11 99

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

ICELAND	Eitrunarmiðstöðin	Eitrunarmiðstöðin 108 Reykjavik	+354 543 22 22
IRELAND	National Poisons Information Centre	Beaumont Hospital PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2166
LATVIA	Valsts Toksikoloģijas centra Saindēšanās un zāļu informācijas centrs	2 Hipocrate Street LV 1038 Riga	+371 67 04 24 73
LITHUANIA	Apsinuodijimų kontrolės ir informacijos biuras	Siltnamiu 29 2043 Vilnius	+370 5 236 20 52/+370 687 53 378
MALTA	Medicines & Poisons Info Office	Mater Dei Hospital, Msida MSD 2090 Malta	25450000
NETHERLANDS	Nationaal Vergiftigingen Informatie Centrum National Institute for Public Health and the Environment, NB this service is only available to health professionals	Huispostnummer B.00.118, PO Box 85500 3508 GA Utrecht	+31 30 274 88 88
PORTUGAL	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica (INEM)	Rua Almirante Barroso, 36 1000-013 Lisboa	808 250 143 (for use only in Portugal), +351 21 330 3284
ROMANIA	Biroul pentru Regulamentul Sanitar International si Informare Toxicologica	Str. Dr. Leonte Anastasievici Nr.1-3, Sector 5 50463 Bucuresti	+40 21 318 36 06
SLOVAKIA	Národné toxikologické informačné centrum University Hospital Bratislava	Limbová 5 833 05 Bratislava	+421 2 54 77 4 166
SPAIN	Servicio de Información Toxicológica Instituto Nacional de Toxicología, Departamento de Madrid	Calle Luis Cabrera 9 E-28002 Madrid	+34 91 562 04 20
SWEDEN	Giftinformationscentralen Swedish Poisons Information Centre, Karolinska Hospital	Box 60 500 SE-171 76 Stockholm	+46 8 33 12 31 (International) 112 (National)
SWITZERLAND	Centre Suisse d'Information Toxicologique	Freiestrasse 16 Postfach CH-8028 Zurich	+41 44 251 51 51 (International) 145 (National)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol, Category 1	H222;H229
Acute toxicity (inhalation:gas) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Carcinogenicity, Category 1B	H350
Reproductive toxicity, Category 2	H361
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity — Repeated exposure, Category 1	H372
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

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

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

formaldehyde; Stoddard solvent (benzene < 0.1%); cobalt bis(2-ethylhexanoate); Naphtha, petroleum, hydrotreated light (benzene < 0.1%)

Hazard statements (CLP) :

H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated  
H315 - Causes skin irritation

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness  
H350 - May cause cancer  
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

### Precautionary statements (CLP)

: 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  
P251 - Do not pierce or burn, even after use  
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 should not be allowed out of the workplace  
P273 - Avoid release to the environment  
P280 - Wear eye protection, protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of 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 poison center or doctor if you feel unwell  
P321 - Specific treatment (see First aid measures on this label)  
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  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
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

### 2.3. Other hazards

PBT: not yet assessed

vPvB: not yet assessed

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%)	(CAS-No.) 68410-97-9 (EC-No.) 270-093-2 (EC Index-No.) 649-332-00-3	0 – 35	Asp. Tox. 1, H304
Naphtha, petroleum, hydrotreated light (benzene < 0.1%)	(CAS-No.) 64742-49-0 (EC-No.) 265-151-9 (EC Index-No.) 649-328-00-1	0 – 35	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
Solvent naphtha (petroleum), light aliph (benzene < 0.1%)	(CAS-No.) 64742-89-8 (EC-No.) 265-192-2 (EC Index-No.) 649-267-00-0	0 – 35	Asp. Tox. 1, H304
Propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9 (EC Index-No.) 601-003-00-5	10 – 20	Flam. Gas 1, H220
aluminium powder (pyrophoric)	(CAS-No.) 7429-90-5 (EC-No.) 231-072-3;231-072-3b (EC Index-No.) 013-001-00-6	5 – 10	Pyr. Sol. 1, H250 Water-react. 2, H261
n-Butane	(CAS-No.) 106-97-8 (EC-No.) 203-448-7 (EC Index-No.) 601-004-00-0	5 – 10	Flam. Gas 1, H220

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

Stoddard solvent (benzene < 0.1%)	(CAS-No.) 8052-41-3 (EC-No.) 232-489-3 (EC Index-No.) 649-345-00-4	3 – 7	Flam. Liq. 3, H226 STOT RE 1, H372 Asp. Tox. 1, H304
diacetone alcohol	(CAS-No.) 123-42-2 (EC-No.) 204-626-7 (EC Index-No.) 603-016-00-1	1 – 5	Eye Irrit. 2, H319
1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated	(CAS-No.) 68002-25-5 (EC-No.) *614-205-3	1 – 5	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312
1-Butanol	(CAS-No.) 71-36-3 (EC-No.) 200-751-6 (EC Index-No.) 603-004-00-6	1 – 2	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
cobalt bis(2-ethylhexanoate)	(CAS-No.) 136-52-7 (EC-No.) 205-250-6	0.3 – 0.7	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
formaldehyde	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5	0.1 – 0.3	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 STOT SE 3, H335

### Specific concentration limits:

Name	Product identifier	Specific concentration limits
diacetone alcohol	(CAS-No.) 123-42-2 (EC-No.) 204-626-7 (EC Index-No.) 603-016-00-1	(C >= 10) Eye Irrit. 2, H319
formaldehyde	(CAS-No.) 50-00-0 (EC-No.) 200-001-8 (EC Index-No.) 605-001-00-5	(C >= 0.2) Skin Sens. 1, H317 (C >= 5) STOT SE 3, H335 (5 <= C < 25) Eye Irrit. 2, H319 (5 <= C < 25) Skin Irrit. 2, H315 (C >= 25) Skin Corr. 1B, H314

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Never give anything by mouth to an unconscious person.
First-aid measures after inhalation	: Cough. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
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.

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

Symptoms/effects	: Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure.
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.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Nausea. Vomiting.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Foam. Dry powder.
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# Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)

## Safety Data Sheet

according to Regulation (EU) 2015/830

Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

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. Advice for firefighters

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. 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.

#### 6.1.2. For emergency responders

Protective equipment : Refer to section 8.2.  
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.

### 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 cermiculite, sand, or earth to soak up the product and place into a container for later disposal.

### 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. Pressurized container: 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 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.  
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.

### 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.  
Incompatible products : Strong acids. Alkali. Strong oxidizers.  
Incompatible materials : Heat sources. Direct sunlight.  
Heat and ignition sources : Keep away from heat, sparks and flame.

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

Prohibitions on mixed storage : Incompatible materials.  
Storage area : Store in dry, cool, well-ventilated area. Protect from freezing. Keep out of direct sunlight.

### 7.3. Specific end use(s)

Coating. Primer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

1-Butanol (71-36-3)		
EU	Local name	n-Butyl alcohol
Austria	MAK (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup> max. 4x15 min./Schicht
Austria	MAK Short time value (ppm)	200 ppm max. 4x15 min./Schicht
Belgium	Limit value (mg/m <sup>3</sup> )	62 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	20 ppm
Belgium	Remark (BE)	D
Czech Republic	Local name	Butanol (všechny isomery)
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	99 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	198 ppm
Czech Republic	Remark (CZ)	I
Denmark	Local name	1-Butanol (Butylalkohol)
Finland	Local name	n-Butanoli
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	230 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	75 ppm
Finland	Huomautus (FI)	iho
France	Local name	Alcool n-butylique
France	VLE (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
France	VLE (ppm)	50 ppm
Germany	Local name	Butan-1-ol
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	100 ppm
Germany	TRGS 903 (BGW)	2 mg/g Kreatinin 1-Butanol (Urin; vor nachfolgender Schicht) 10 mg/g Kreatinin 1-Butanol (Urin; Expositionsende bzw. Schichtende)
Hungary	Local name	n-BUTIL-ALKOHOL
Hungary	AK-érték	45 mg/m <sup>3</sup>
Hungary	CK-érték	90 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	20 ppm
Ireland	Notes (IE)	SK
Latvia	Local name	Butilspirti(pirmējais, otrējais,trešējais) (n-butanols,
Latvia	OEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	15 ppm
Lithuania	NRV (mg/m <sup>3</sup> )	90 mg/m <sup>3</sup>
Lithuania	NRV (ppm)	30 ppm
Lithuania	Remark (LT)	Ū O
Poland	Local name	Butan-1-ol (n-butyłowy alkohol)

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>1-Butanol (71-36-3)</b>		
Poland	NDS (mg/m <sup>3</sup> )	50 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Portugal	Local name	n-Butanol (Álcool n-butílico)
Portugal	OEL TWA (ppm)	20 ppm
Slovakia	Local name	n-Butanol
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup> krátkodobý: kategória I.
Slovakia	NPHV (priemerná) (ppm)	100 ppm krátkodobý: kategória I. 2 ppm (M,d) 10 ppm (M,b)
Slovenia	Local name	butan-1-ol
Slovenia	OEL TWA (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	100 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	310 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	100 ppm
Spain	Local name	n-Butanol (Alcohol n-butílico)
Spain	VLA-EC (mg/m <sup>3</sup> )	154 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	50 ppm
Spain	Notes	vía dérmica,
Sweden	Local name	n-Butanol
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	45 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	15 ppm
Sweden	takgränsvärde (TGV) (mg/m <sup>3</sup> )	90 mg/m <sup>3</sup>
Sweden	takgränsvärde (TGV) (ppm)	30 ppm
Sweden	Anmärkning (SE)	H
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	154 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	50 ppm
United Kingdom	Remark (WEL)	(Sk)
Norway	Local name	Butan-1-ol
Norway	Grenseverdier (Takverdi) (mg/m <sup>3</sup> )	75 mg/m <sup>3</sup>
Norway	Grenseverdier (Takverdi) (ppm)	25 ppm
Norway	Merknader (NO)	H
Switzerland	VME (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Switzerland	VME (ppm)	50 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	150 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	50 ppm
Australia	STEL (mg/m <sup>3</sup> )	154 mg/m <sup>3</sup>
Australia	STEL (ppm)	50 ppm
USA - ACGIH	ACGIH TWA (ppm)	20 ppm
USA - ACGIH	Remark (ACGIH)	Eye & URT irr
<b>formaldehyde (50-00-0)</b>		
EU	Local name	Formaldehyde
EU	IOELV TWA (ppm)	0.2 ppm
EU	IOELV STEL (ppm)	0.4 ppm
EU	Notes	skin sensitiser. SCOEL Recommendations (2008/Ongoing)
Austria	MAK (mg/m <sup>3</sup> )	0.6 mg/m <sup>3</sup>
Austria	MAK (ppm)	0.5 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	0.6 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	0.5 ppm
Austria	Remark (AT)	(gemessen als Momentanwert), (H,Sh,III B)
Czech Republic	Local name	Formaldehyd
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>



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

## Safety Data Sheet

according to Regulation (EU) 2015/830

formaldehyde (50-00-0)		
Czech Republic	Expoziční limity (PEL) (ppm)	0.407 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	0.814 ppm
Czech Republic	Remark (CZ)	I,S
Denmark	Local name	Formaldehyd (Formalin)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0.4 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	0.3 ppm
Denmark	Anmærkninger (DK)	L (markerer, at grænseværdien er en loftværdi, som ikke på noget tidspunkt må overskrides); K (betyder, at stoffet anses for at kunne være kræftfremkaldende)
Finland	Local name	Formaldehydi
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	0.3 ppm
Finland	HTP-arvo (15 min)	1.2 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1 ppm
Finland	Huomautus (FI)	kattoarvo
France	Local name	Aldéhyde formique
France	VME (ppm)	0.5 ppm
France	VLE (ppm)	1 ppm
France	Note (FR)	Valeurs recommandées/admises; substance classée cancérogène de catégorie 2
Germany	Local name	Formaldehyd
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	0.3 ppm
Germany	Remark (TRGS 900)	AGS,Sh,Y,X
Hungary	Local name	FORMALDEHID
Hungary	AK-érték	0.6 mg/m <sup>3</sup>
Hungary	CK-érték	0.6 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, m, sz; VI.
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	2 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	2 ppm
Latvia	Local name	Formaldehyds (metanāls)
Latvia	OEL TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	0.6 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	0.5 ppm
Lithuania	NRV (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Lithuania	NRV (ppm)	1.2 ppm
Lithuania	Remark (LT)	Ū J K
Netherlands	Local name	Formaldehyde
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.15 mg/m <sup>3</sup>
Netherlands	Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Poland	Local name	Formaldehyd
Poland	NDS (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Portugal	Local name	Formaldeído
Portugal	OEL - Ceilings (ppm)	0.3 ppm
Slovakia	Local name	Formaldehyd (metanál)



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

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>formaldehyde (50-00-0)</b>		
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	0.3 ppm
Slovakia	OEL STEL (mg/m <sup>3</sup> )	0.74 mg/m <sup>3</sup>
Slovakia	OEL STEL (ppm)	0.6 ppm
Slovakia	Upozornenie (SK)	(S)
Slovenia	Local name	formaldehyd
Slovenia	OEL TWA (mg/m <sup>3</sup> )	0.62 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	0.5 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	0.62 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	0.5 ppm
Spain	Local name	Formaldehído
Spain	VLA-EC (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
Spain	VLA-EC (ppm)	0.3 ppm
Spain	Notes	vía dérmica, TR1B
Sweden	Local name	Formaldehyd
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	0.3 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	0.74 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	0.6 ppm
Sweden	takgränsvärde (TGV) (mg/m <sup>3</sup> )	0.74 mg/m <sup>3</sup>
Sweden	takgränsvärde (TGV) (ppm)	0.6 ppm
Sweden	Anmärkning (SE)	(C,H,S,M)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	2 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	2 ppm
Norway	Local name	Formaldehyd
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	0.6 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	0.5 ppm
Norway	Grenseverdier (Takverdi) (mg/m <sup>3</sup> )	1.2 mg/m <sup>3</sup>
Norway	Grenseverdier (Takverdi) (ppm)	1 ppm
Norway	Merknader (NO)	A, K
Switzerland	VME (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
Switzerland	VME (ppm)	0.3 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	0.74 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	0.6 ppm
USA - ACGIH	ACGIH TWA (ppm)	0.1 ppm
USA - ACGIH	ACGIH STEL (ppm)	0.3 ppm
USA - ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
USA - ACGIH	Remark (ACGIH)	URT & eye irr; URT cancer; DSEN; RSEN; A1 (Confirmed Human Carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiologic studies)
<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	533 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	100 ppm
Denmark	Local name	Terpentin, mineralsk, max. 20 pct. aromater
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	145 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	25 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	290 mg/m <sup>3</sup>

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>		
Denmark	Grænseværdie (kortvarig) (ppm)	50 ppm
Denmark	Anmærkninger (DK)	(Terpentin, mineralsk, max. 20 pct. aromater; 2)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	573 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	100 ppm
Poland	Local name	Benzyna do lakierów
Poland	NDS (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Portugal	Local name	Solvente de Stoddard
Portugal	OEL TWA (ppm)	100 ppm
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	572 mg/m <sup>3</sup>
USA - ACGIH	ACGIH TWA (ppm)	100 ppm
USA - ACGIH	Remark (ACGIH)	Eye, skin, & kidney dam; nausea; CNS impair
<b>aluminium powder (pyrophoric) (7429-90-5)</b>		
Belgium	Limit value (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Belgium	Remark (BE)	(Aluminium, métal et composés insolubles, fraction alvéolaire)
Denmark	Local name	Aluminium, pulver og støv
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> total
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (respirabel) 10 mg/m <sup>3</sup> (total)
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Finland	Huomautus (FI)	(Alumiini, liukoiset yhdisteet)
France	Local name	Aluminium métal
France	VME (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (pulvérulent) 10 mg/m <sup>3</sup> (metal)
Germany	Local name	Aluminium
Germany	TRGS 903 (BGW)	200 µg/l
Germany	Remark (TRGS 903)	Aluminium (Urin; Expositionsende bzw. Schichtende)
Hungary	Local name	ALUMÍNIUM, FÉM
Hungary	AK-érték	6 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	(respirabilis por)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Ireland	Notes (IE)	(respirable dust)
Latvia	Local name	Alumīnijsuntā sakausējumi(pēc alumīnija)
Latvia	OEL TWA (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Lithuania	IPRV (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (alveoline frakcija) 1 mg/m <sup>3</sup> (Aliuminis (metalas) ir jo tirpus junginiai, kaip Al) 5 mg/m <sup>3</sup> (ákvepiamoji frakcija )
Netherlands	Grenswaarde TGG 8H (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	2.5 mg/m <sup>3</sup> (dymy, pyl calkowity) 1.2 mg/m <sup>3</sup> (dymy, pyl respirabilny)
Portugal	Local name	Alumínio e compostos insolúveis, expresso em Al
Portugal	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> R (Fração respirável)
Slovakia	Local name	Hliník kovový
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	60 µg/g creatinine (Hliník, M,a) 25 µg/g creatinine (Celkový, M.,d) 150 µg/g creatinine (Celkový,M,b)
Spain	Local name	Aluminio
Spain	VLA-ED (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable aerosol) 5 mg/m <sup>3</sup> (respirable aerosol)
Sweden	Local name	Aluminium, lösliga föreningar (som Al)

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>aluminium powder (pyrophoric) (7429-90-5)</b>		
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Aluminium, lösliga föreningar, som Al) 5 mg/m <sup>3</sup> (totaldamm, som Al) 2 mg/m <sup>3</sup> (respirabelt damm, som Al)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
Norway	Local name	Aluminiumpulver (pyroteknikk)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>
Norway	Merknader (NO)	(Aluminiumpulver, pyroteknikk)
Switzerland	VME (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Switzerland	Remark (CH)	(alveolengängiger Staub)
Australia	TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA - ACGIH	Remark (ACGIH)	Pneumoconiosis; LRT irr
<b>Propane (74-98-6)</b>		
Austria	MAK (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	3600 mg/m <sup>3</sup> max. 3x60 min./Schicht
Austria	MAK Short time value (ppm)	2000 ppm max. 3x60 min./Schicht
Belgium	Limit value (ppm)	1000 ppm
Denmark	Local name	Propan (Flaskegas)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	1000 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	3600 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	2000 ppm
Finland	Local name	Propaani
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	800 ppm
Finland	HTP-arvo (15 min)	2000 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1100 ppm
Finland	Huomautus (FI)	liite 4 (HAPPEA SYRJÄYTTÄMÄLLÄ TUKEHDUTTAVAT KAASUT)
Germany	Local name	Propan
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	1000 ppm
Germany	Remark (TRGS 900)	DFG
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Poland	Local name	Propan
Poland	NDS (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Slovenia	Local name	propan
Slovenia	OEL TWA (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	1000 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	7200 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	4000 ppm
Norway	Local name	Propan
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	500 ppm
Switzerland	VME (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Switzerland	VME (ppm)	1000 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	7200 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	4000 ppm

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>Propane (74-98-6)</b>		
USA - ACGIH	Remark (ACGIH)	Simple Asphyxiant
<b>n-Butane (106-97-8)</b>		
Austria	MAK (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Austria	MAK (ppm)	800 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	3800 mg/m <sup>3</sup> max. 3x60 min./Schicht
Austria	MAK Short time value (ppm)	1600 ppm max. 3x60 min./Schicht
Belgium	Limit value (ppm)	1000 ppm
Denmark	Local name	n-Butan
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	500 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	1000 ppm
Finland	Local name	n-Butaani
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	800 ppm
Finland	HTP-arvo (15 min)	2400 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1000 ppm
Finland	Huomautus (FI)	liite 4 (HAPPEA SYRJÄYTTÄMÄLLÄ TUKEHDUTTAVAT KAASUT)
France	Local name	n-Butane
France	VME (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
France	VME (ppm)	800 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	Local name	Butan
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	1000 ppm
Germany	Remark (TRGS 900)	DFG
Hungary	Local name	n-BUTÁN
Hungary	AK-érték	2350 mg/m <sup>3</sup>
Hungary	CK-érték	9400 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	IV.
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Latvia	Local name	Butāns
Latvia	OEL TWA (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Poland	Local name	Butan (n-butan)
Poland	NDS (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Poland	NDSCh (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
Portugal	Local name	Butano, todos os isómeros
Portugal	OEL STEL (ppm)	1000 ppm
Slovakia	NPHV (priemerná) (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
Slovakia	NPHV (priemerná) (ppm)	1000 ppm
Slovakia	Upozornenie (SK)	(Dokázaný karcinogén pre ľudí, Pravdepodobný mutagén)
Slovenia	Local name	butan
Slovenia	OEL TWA (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
Slovenia	OEL TWA (ppm)	1000 ppm
Slovenia	OEL STEL (mg/m <sup>3</sup> )	9600 mg/m <sup>3</sup>
Slovenia	OEL STEL (ppm)	4000 ppm
Spain	VLA-ED (mg/m <sup>3</sup> )	1935 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	800 ppm

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>n-Butane (106-97-8)</b>		
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1450 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	600 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1810 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	750 ppm
United Kingdom	Remark (WEL)	(Carc, only applies if Butane contains more than 0.1% of buta-1,3-diene)
Norway	Local name	Butan
Norway	Grønseverdier (AN) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Norway	Grønseverdier (AN) (ppm)	250 ppm
Switzerland	VME (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Switzerland	VME (ppm)	800 ppm
Australia	TWA (mg/m <sup>3</sup> )	1450 mg/m <sup>3</sup>
Australia	TWA (ppm)	600 ppm
Australia	STEL (mg/m <sup>3</sup> )	1810 mg/m <sup>3</sup>
Australia	STEL (ppm)	750 ppm
USA - ACGIH	ACGIH TWA (ppm)	1000 ppm
USA - ACGIH	ACGIH STEL (ppm)	1000 ppm
<b>diacetone alcohol (123-42-2)</b>		
Czech Republic	Local name	Diacetonalkohol
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	40 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	60 ppm
Czech Republic	Remark (CZ)	I
Denmark	Local name	Diacetonealkohol (4-Hydroxy-4-methyl-2-pentanon)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Denmark	Grænseværdie (kortvarig) (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
Denmark	Grænseværdie (kortvarig) (ppm)	100 ppm
Finland	Local name	Diasetonialkoholi
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	360 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	75 ppm
France	Local name	Diacétone-alcool
France	VME (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
France	VME (ppm)	50 ppm
France	Note (FR)	Valeurs recommandées/admises
Germany	Local name	4-Hydroxy-4-methyl-pentan-2-on
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	96 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	20 ppm
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	192 mg/m <sup>3</sup>
Germany	TRGS 900 Limitation of exposure peaks (ppm)	40 ppm
Germany	Remark (TRGS 900)	DFG,H
Poland	Local name	4-Hydroksy-4-metylopentan-2-on (alkohol diacetonowy)
Poland	NDS (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
Portugal	Local name	Álcool diacetónico (4-hidroxi-4-metil-2-pentanona)
Portugal	OEL TWA (ppm)	50 ppm
Slovenia	Local name	4-hidroksi-4-metilpentan-2-on (diacetonalkohol)
Slovenia	OEL TWA (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

diacetone alcohol (123-42-2)		
Slovenia	OEL TWA (ppm)	50 ppm
Spain	Local name	Diacetona alcohol
Spain	VLA-ED (mg/m <sup>3</sup> )	241 mg/m <sup>3</sup>
Spain	VLA-ED (ppm)	50 ppm
Sweden	Local name	Diacetonalkohol
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup> 120 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	25 ppm 25 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup> 240 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	50 ppm 50 ppm
Sweden	Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Norway	Local name	4-hydroksy-4-metyl-2-pentanon (Diacetonalkohol)
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	25 ppm
Australia	STEL (mg/m <sup>3</sup> )	362 mg/m <sup>3</sup>
Australia	STEL (ppm)	75 ppm
USA - ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	238 mg/m <sup>3</sup>
USA - ACGIH	ACGIH TWA (ppm)	50 ppm
USA - ACGIH	Remark (ACGIH)	URT & eye irr
Naphtha, petroleum, hydrotreated light (benzene < 0.1%) (64742-49-0)		
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	180 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	250 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	75 ppm
Norway	Grenseverdier (AN) (mg/m <sup>3</sup> )	275 mg/m <sup>3</sup>
Norway	Grenseverdier (AN) (ppm)	50 ppm

### 8.2. Exposure 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.

#### 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

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

### Environmental exposure controls:

Prevent leakage or spillage. Prevent contaminated water run-off.

### 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
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: -187.6 °C
Boiling point	: -43.78 °C
Flash point	: -104.4 °C
Auto-ignition temperature	: 287.78 °C
Decomposition temperature	: 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
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

VOC content : 657.805816 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 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. Sparks. Open flame. Direct sunlight. Overheating.

### 10.5. Incompatible materials

Alkali. Strong acids. Strong oxidizers.

### 10.6. Hazardous decomposition products

May release flammable gases. Vapour could travel to source of ignition and flash back. Carbon oxides (CO, CO<sub>2</sub>).



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

## Safety Data Sheet

according to Regulation (EU) 2015/830

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity** : Inhalation:gas: Harmful if inhaled.

ATE CLP (gases)	14240.659 ppmv/4h
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<b>formaldehyde (50-00-0)</b>	
LC50 inhalation rat (ppm)	31.7 ppm

<b>1,3,5-Triazine-2,4,6-triamine, polymer with formaldehyde, butylated (68002-25-5)</b>	
LD50 oral rat	> 1100 mg/kg
LD50 dermal rabbit	1800 mg/kg
LC50 inhalation rat (mg/l)	> 6 mg/l/4h

<b>Stoddard solvent (benzene &lt; 0.1%) (8052-41-3)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 10 mg/l/4h

<b>aluminium powder (pyrophoric) (7429-90-5)</b>	
LD50 oral rat	> 15900 mg/kg bodyweight
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 10 mg/l/4h

<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
LD50 oral rat	3129 (1750 - 5000) mg/l
LD50 dermal rat	> 2000 mg/kg

<b>Solvent naphtha (petroleum), light aliph (benzene &lt; 0.1%) (64742-89-8)</b>	
LD50 oral rat	> 5000 mg/kg No mortality observed
LD50 dermal rabbit	> 2000 mg/kg No mortality observed
LC50 inhalation rat (mg/l)	> 7630 mg/m <sup>3</sup> No mortality observed

<b>diacetone alcohol (123-42-2)</b>	
LD50 oral rat	4000 mg/kg
LD50 dermal rabbit	13630 mg/kg

<b>Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene &lt; 0.1%) (68410-97-9)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg all animals survived

<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 (mg/l)	> 5610 mg/m <sup>3</sup> air (analytical)

**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** : May cause cancer.

<b>Solvent naphtha (petroleum), light aliph (benzene &lt; 0.1%) (64742-89-8)</b>	
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.

**STOT-repeated exposure** : Causes damage to organs through prolonged or repeated exposure.

**Additional information** : Causes damage to organs through prolonged or repeated exposure

**Aspiration hazard** : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

<b>formaldehyde (50-00-0)</b>	
LC50 fish 1	31.8 (21.1 - 47.7) mg/l 96 h

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

<b>formaldehyde (50-00-0)</b>	
EC50 Daphnia 1	1.9 mg/l 48 h
<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
LC50 fish 1	275 mg/l 96 h
EC50 Daphnia 1	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
<b>Solvent naphtha (petroleum), light aliph (benzene &lt; 0.1%) (64742-89-8)</b>	
LC50 fish 1	8.2 mg/l 96 h, pimephales promelas
EC50 Daphnia 1	4.5 mg/l 48 h
<b>diacetone alcohol (123-42-2)</b>	
LC50 fish 1	420 mg/l 96 h
EC50 Daphnia 1	9000 mg/l 24 h
<b>Naphtha, petroleum, hydrotreated light (benzene &lt; 0.1%) (64742-49-0)</b>	
LC50 fish 1	5.4 mg/l 48 h

### 12.2. Persistence and degradability

<b>Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>formaldehyde (50-00-0)</b>	
Persistence and degradability	Readily biodegradable.
<b>cobalt bis(2-ethylhexanoate) (136-52-7)</b>	
Persistence and degradability	Readily biodegradable.
<b>Solvent naphtha (petroleum), light aliph (benzene &lt; 0.1%) (64742-89-8)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	77.05 % 28 d
<b>diacetone alcohol (123-42-2)</b>	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % 14 d
<b>Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene &lt; 0.1%) (68410-97-9)</b>	
Persistence and degradability	inherently biodegradable.
Biodegradation	74 % 28 days
<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 Preventive Coating Weldable Primer (Aerosol)</b>	
Bioaccumulative potential	Not established.
<b>formaldehyde (50-00-0)</b>	
BCF fish 1	< 1
Log Pow	0.35
<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)
<b>diacetone alcohol (123-42-2)</b>	
Log Pow	1.03

### 12.4. Mobility in soil

<b>Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)</b>	
Ecology - soil	No additional information available.

### 12.5. Results of PBT and vPvB assessment

<b>Tempil® Aluminized Bloxide® Rust Preventive Coating Weldable Primer (Aerosol)</b>	
PBT: not yet assessed	
vPvB: not yet assessed	

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

### 12.6. Other adverse effects

Additional information : No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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.  
European List of Waste (LoW) code : For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

### 14.1. UN number

UN-No. (ADR) : 1950  
UN-No. (IMDG) : 1950  
UN-No. (IATA) : 1950  
UN-No. (ADN) : 1950  
UN-No. (RID) : 1950

### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS  
Proper Shipping Name (IMDG) : AEROSOLS  
Proper Shipping Name (IATA) : AEROSOLS  
Proper Shipping Name (ADN) : AEROSOLS  
Proper Shipping Name (RID) : AEROSOLS  
Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D)  
Transport document description (IMDG) : UN 1950 AEROSOLS, 2.1  
Transport document description (IATA) : UN 1950 AEROSOLS, 2.1  
Transport document description (ADN) : UN 1950 AEROSOLS, 2.1  
Transport document description (RID) : UN 1950 AEROSOLS, 2.1

### 14.3. Transport hazard class(es)

#### ADR

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



#### IMDG

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



#### IATA

Transport hazard class(es) (IATA) : 2.1

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

Hazard labels (IATA) : 2.1

:



### ADN

Transport hazard class(es) (ADN) : 2.1

Danger labels (ADN) : 2.1

:



### RID

Transport hazard class(es) (RID) : 2.1

Danger labels (RID) : 2.1

:



### 14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : 5F

Tunnel restriction code (ADR) : D

#### - Transport by sea

EmS-No. (Fire) : F-D

EmS-No. (Spillage) : S-U

Stowage category (IMDG) : None

Stowage and handling (IMDG) : SW1, SW22

Segregation (IMDG) : SG69

#### - Air transport

Special provisions (IATA) : A145, A167, A802

ERG code (IATA) : 10L

#### - Inland waterway transport

Classification code (ADN) : 5F

#### - Rail transport

Classification code (RID) : 5F

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 657.805816 g/l

#### 15.1.2. National regulations

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).

#### Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : formaldehyde, Stoddard solvent (benzene < 0.1%), Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%), Naphtha, petroleum, hydrotreated light (benzene < 0.1%), Solvent naphtha (petroleum), light aliph (benzene < 0.1%) are listed

SZW-lijst van mutagene stoffen : Stoddard solvent (benzene < 0.1%), Distillates (petroleum), light distillate hydrotreating process, low-boiling (benzene < 0.1%), Naphtha, petroleum, hydrotreated light (benzene < 0.1%), Solvent naphtha (petroleum), light aliph (benzene < 0.1%) are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F+ <Aerosol 1; Flam. Liq. Not classified>; Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Indication of changes:

Composition/information on ingredients. Classification.

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

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

	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

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.  
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.

Other information : None.

Full text of H- and EUH-statements:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Muta. 2	Germ cell mutagenicity, Category 2
Pyr. Sol. 1	Pyrophoric Solids, Category 1
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H229	Pressurised container: May burst if heated
H250	Catches fire spontaneously if exposed to air
H261	In contact with water releases flammable gases
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H312	Harmful in contact with skin

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

## Safety Data Sheet

according to Regulation (EU) 2015/830

H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects
H350	May cause cancer
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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Aerosol 1	H222;H229	Expert judgment
Acute Tox. 4 (Inhalation:gas)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Skin Sens. 1	H317	Calculation method
Carc. 1B	H350	Calculation method
Repr. 2	H361	Expert judgment
STOT SE 3	H336	Calculation method
STOT RE 1	H372	Expert judgment
Aquatic Chronic 3	H412	Calculation method

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*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*