



# SAFETY DATA SHEET

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

### 1.1. Product identifier

Trade name or designation of the mixture	AL CLEAN
SDS number	1438
Revision date	July 11, 2017.
Version number	03
Chemical description	Mixture
Synonyms	GAXALC001, GAXAL005, GAXAL025.

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

Identified uses	Exterior vehicle cleaner, Rust removing agent, Delimiting agent
Recommended Restrictions	For industrial use only.

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

Arconic Wheel Products Europe.  
Arconic Európai Keréktermék Kft.  
Industrieweg 135  
B-3583 Paal, Beringen  
Belgium  
Tel: +32-11 45 84 60 (Hours of operation 08:00 - 17:00)  
Fax: +32-1145 56 30  
Email: SDSInfo@arconic.com

### 1.4 Emergency Information

CHEMTREC: +1-703-527-3887 +1-800-424-9300 (24 Hour Emergency Telephone, multiple languages spoken); Arconic: +1-412-553-4001 (24 Hour Emergency Telephone, only English spoken)  
Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

Website For a current Safety Data Sheet, refer to Arconic websites: [www.arconic.com](http://www.arconic.com) or internally at [my.arconic.com](http://my.arconic.com) EHS Community

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification

This substance or mixture has been classified as dangerous in accordance with Directives 67/548/EEC and/or 1999/45/EC or Regulation (EC) No 1272/2008 including all applicable amendments and this Safety Data Sheet is being provided in accordance with the regulations.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Health hazards

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Skin corrosion/irritation	Category 1	H314 - Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Category 1	H318 - Causes serious eye damage.

##### Environmental hazards

Hazardous to the ozone layer	Not applicable
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Specific hazards Corrosive. Causes severe skin burns and eye damage. Harmful by inhalation, in contact with skin and if swallowed.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: 2-Butoxyethanol, Phosphoric acid

## Hazard pictograms



## Signal word

Danger

## Hazard statements

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H318

Causes serious eye damage.

## Precautionary statements

### Prevention

P264

Wear protective gloves/clothing and eye/face protection.

P270

Wash thoroughly after handling.

P260

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

Do not breathe mist or vapour.

### Response

P301 + P330 + P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P363

Wash contaminated clothing before reuse.

P304 + P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310

Immediately call a POISON CENTER/doctor.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Storage

P401

Store in accordance with local/regional/national/international regulations.

### Disposal

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

## Supplemental label information

None.

## 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Composition comments

Additional components are not hazardous or are below required disclosure limits.

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Phosphoric acid	10 - 20	7664-38-2 231-633-2	-	015-011-00-6	#
<b>Classification:</b>	Acute Tox. 4;H302, Skin Corr. 1B;H314, Eye Dam. 1;H318				B
2-Butoxyethanol	1 - 3	111-76-2 203-905-0	-	603-014-00-0	#
<b>Classification:</b>	Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Irrit. 2;H315, Eye Irrit. 2;H319, Acute Tox. 4;H332				

## SECTION 4: First aid measures

### General information

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Remove affected person from source of contamination. Keep the affected person warm and at rest. Get prompt medical attention. Show this safety data sheet to the doctor in attendance. First aider needs to protect himself. Wash off with soap and water. Take off contaminated clothing and shoes immediately. Do not give victim anything to drink if he is unconscious. Chemical burns must be treated by a physician. Place unconscious person on the side in the recovery position and ensure breathing can take place. Discard any shoes or clothing items that cannot be decontaminated.

### 4.1. Description of first aid measures

#### Inhalation

Remove to fresh air. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Perform artificial respiration if breathing has stopped. Do not use mouth-to-mouth method if victim inhaled the substance. Get medical attention immediately.

<b>Skin contact</b>	Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 20 minutes. Hold eyelids apart. May cause permanent damage if eye is not immediately irrigated. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention immediately. Continue rinsing.
<b>Ingestion</b>	Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Aspiration may cause pulmonary oedema and pneumonitis.
<b>4.2. Most important symptoms and effects, both acute and delayed</b>	Corrosive effects. Contact with this material will cause burns to the skin, eyes and mucous membranes. Vapours may be irritating to eyes, nose, throat, and lungs. Harmful or fatal if swallowed. Ingestion of aqueous solution causes gastrointestinal burns. Aspiration may cause pulmonary oedema and pneumonitis. Skin contact or inhalation of solvents contained in this product may cause irritation of skin, eyes and mucous membranes. See Section 11 for additional information on health hazards.
<b>Medical conditions aggravated by exposure</b>	Asthma, chronic lung disease and skin rashes.
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>	CORROSIVE. Provide general supportive measures and treat symptomatically. Inhaled corrosive substances can lead to a toxic oedema of the lungs. Victim to lie down in the recovery position, cover and keep him warm. In case of shortness of breath, give oxygen. For specialist advice physicians should contact the Poisons Information Service.

## SECTION 5: Firefighting measures

<b>General fire hazards</b>	Non-combustible, substance itself does not burn.
<b>5.1. Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media</b>	Not applicable, non-combustible.
<b>5.2. Special hazards arising from the substance or mixture</b>	During fire, gases hazardous to health may be formed.
<b>Hazardous combustion products</b>	By heating and fire, corrosive vapours/gases may be formed. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>5.3. Advice for firefighters</b>	
<b>Special protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Special fire fighting procedures</b>	Containers can build up pressure if exposed to heat (fire). Cool containers exposed to heat with water spray and remove container, if no risk is involved. Water runoff can cause environmental damage. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not sensitive.
<b>Sensitivity to static discharge</b>	Not sensitive.

## SECTION 6: Accidental release measures

<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	
<b>For non-emergency personnel</b>	Avoid contact with skin and eyes. Avoid breathing mist or vapour. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8. Do not touch or walk through spilled material. Ensure adequate ventilation. In case of inadequate ventilation, use respiratory protection. Wash hands after handling. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties.
<b>For emergency responders</b>	DO NOT TOUCH SPILLED MATERIAL! Avoid contact with skin and eyes. Keep unnecessary personnel away. Do not breathe mist or vapour. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material. Wear appropriate protective equipment and clothing during clean-up.
<b>Evacuation procedures</b>	If this material is released into a work area, evacuate the area immediately. Keep people away from and upwind of spill/leak.
<b>6.2. Environmental precautions</b>	Do not allow to enter drains, sewers or watercourses.

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

Wear appropriate personal protective equipment. Prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible. Stop leak if you can do so without risk. Avoid contact with skin and eyes. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Large spills may be Neutralised with dilute alkaline solutions of soda ash, or lime.

### 6.4. Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Wear appropriate personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not breathe mist. Respiratory protection must be used if air contamination exceeds acceptable level. Do not eat, drink or smoke when using the product. Eye wash facilities and emergency shower must be available when handling this product. Do not ingest. When diluting, always add the product to water. Never add water to the product. When neutralising, always add the product to the neutralising agent. Never add neutralising agent to the product. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed when not in use. Do not re-use empty containers. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practices. Avoid release to the environment.

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

Store in accordance with local/regional/national/international regulation. Store in original tightly closed container. Store away from incompatible materials. Protect from sunlight. Keep in a dry, cool and well-ventilated place. Use appropriate container to avoid environmental contamination.

### 7.3. Specific end use(s)

Not assigned.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m <sup>3</sup>
		50 ppm
	TWA	123 mg/m <sup>3</sup> 25 ppm
Phosphoric acid (CAS 7664-38-2)	STEL	2 mg/m <sup>3</sup>
	TWA	1 mg/m <sup>3</sup>

##### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	STEL	246 mg/m <sup>3</sup>
		50 ppm
	TWA	98 mg/m <sup>3</sup> 20 ppm
Phosphoric acid (CAS 7664-38-2)	STEL	2 mg/m <sup>3</sup>
	TWA	1 mg/m <sup>3</sup>

##### Arconic

Components	Type	Value	Form
2-Butoxyethanol (CAS 111-76-2)	TWA	5 ppm	Skin

##### US ACGIH Threshold Limit Values: Short Term Exposure Limit (STEL): mg/m<sup>3</sup>

Components	Type	Value
Phosphoric acid (CAS 7664-38-2)	STEL	3 mg/m <sup>3</sup>

##### US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m<sup>3</sup> & ppm

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm

##### US ACGIH Threshold Limit Values: Time Weighted Average (TWA): mg/m<sup>3</sup>, non-standard units

Components	Type	Value
Phosphoric acid (CAS 7664-38-2)	TWA	1 mg/m <sup>3</sup>

## Biological limit values

### UK. EH40 Biological Monitoring Guidance Values (BMGVs)

Components	Value	Determinant	Specimen	Sampling time
2-Butoxyethanol (CAS 111-76-2)	240 mmol/mol	Butoxyacetic acid	Creatinine in urine	*

\* - For sampling details, please see the source document.

### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

\* - For sampling details, please see the source document.

<b>Derived No Effect Level (DNEL)</b>	Not available.
<b>Derived minimum effect level (DMEL)</b>	Not established
<b>Predicted no effect concentrations (PNECs)</b>	Not available.
<b>Recommended monitoring procedures</b>	Follow standard monitoring procedures.

## 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
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## Individual protection measures, such as personal protective equipment

<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Safety glasses with side-shields. Tightly fitting safety goggles. (e.g. EN 166). Wear face shield if there is risk of splashes. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Skin protection</b>	
- <b>Hand protection</b>	Select suitable chemical resistant protective gloves (EN 374) with a protective index 6 (>480min permeation time). Impervious gloves should be used at all times when handling this product. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
- <b>Other</b>	Do not get this material in your eyes, on your skin, or on your clothing. Wear appropriate chemical resistant clothing. (EN 14605 for splashes, EN ISO 13982 for dust). Wear chemical protective equipment that is specifically recommended by the manufacturer. Chemical resistant boots.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator with a particle filter (EN 143) Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Thermal hazards</b>	Not applicable.

<b>Hygiene measures</b>	Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practices. When using, do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location.
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<b>Environmental exposure controls</b>	Do not allow to enter drains, sewers or watercourses.
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## SECTION 9: Physical and chemical properties

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

#### Appearance

<b>Physical state</b>	Liquid.
<b>Form</b>	liquid
<b>Colour</b>	Not available.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not determined
<b>pH</b>	0 - 1
<b>Melting point/freezing point</b>	Not determined
<b>Initial boiling point and boiling range</b>	103 °C (217,4 °F)

<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available
<b>Flammability limit - upper (%)</b>	Not available
<b>Vapour pressure</b>	2,3 kPa @ 20°C
<b>Vapour density</b>	Not determined Not available.
<b>Relative density</b>	1,06
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Solubility (other)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not determined
<b>Explosive properties</b>	Vapours may form explosive mixture with air.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	
<b>Apparent viscosity</b>	Not available
<b>Density</b>	1,06 g/cm3
<b>Percent volatile</b>	< 10 %
<b>Specific gravity</b>	Not determined

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Stable
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>10.4. Conditions to avoid</b>	Avoid high temperatures.
<b>10.5. Incompatible materials</b>	Strong acids, alkalis and oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	Decomposition of this product may emit oxides of nitrogen. Carbon dioxide (CO2) Carbon monoxide. Oxides of phosphorus. Smoke.

## SECTION 11: Toxicological information

### Health effects associated with compounds formed during processing

No new/additional compounds are expected to be formed during processing.

**General information** Corrosive.

### Information on likely routes of exposure

<b>Ingestion</b>	Harmful or fatal if swallowed.
<b>Inhalation</b>	May cause irritation to the respiratory system. May cause lung damage. May cause drowsiness and dizziness. Prolonged or repeated exposure may cause liver and kidney damage.
<b>Skin contact</b>	Causes skin irritation. Causes severe skin burns.
<b>Eye contact</b>	Causes serious eye damage.
2-Butoxyethanol	100 mg/day Result: positive Species: Rabbit Organ: Eye Test Duration: 24 Hours Severity: Moderate

**Symptoms** Corrosive effects. Contact with this material will cause burns to the skin, eyes and mucous membranes. Vapours may be irritating to eyes, nose, throat, and lungs. Harmful or fatal if swallowed. Ingestion of aqueous solution causes gastrointestinal burns. Aspiration may cause pulmonary oedema and pneumonitis. Skin contact or inhalation of solvents contained in this product may cause irritation of skin, eyes and mucous membranes. See Section 11 for additional information on health hazards.

## 11.1. Information on toxicological effects

<b>Toxicological information</b>	Corrosive.	
<b>Acute toxicity</b>	Harmful or fatal if swallowed. Swallowing concentrated chemical may cause severe internal injury.	
Components	Species	Test results
2-Butoxyethanol (CAS 111-76-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	400 mg/kg
	Rat	2270 mg/kg, 4 Hours
<b>Inhalation</b>		
LC50	Mouse	700 ppm, 7 Hours
	Rat	2 - 20 mg/l, 4 Hours
		450 ppm, 4 Hours
<b>Oral</b>		
LD50	Mouse	1,2 g/kg
	Rat	6600 mg/kg
		560 mg/kg
Phosphoric acid (CAS 7664-38-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	2740 mg/kg
<b>Oral</b>		
LD50	Rat	1530 mg/kg
<b>Skin corrosion/irritation</b>	Corrosive. Causes severe skin burns and eye damage.	
<b>Serious eye damage/eye irritation</b>	Corrosive to eyes and skin. May cause permanent damage.	
<b>Respiratory sensitisation</b>	Not classified. Based on available data, the classification criteria are not met.	
<b>Skin sensitisation</b>	Not classified. Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>	Not classified. Based on available data, the classification criteria are not met.	
<b>Carcinogenicity</b>	Not classified. Based on available data, the classification criteria are not met. Contains no ingredient listed as a carcinogen	
<b>ACGIH Carcinogens</b>		
2-Butoxyethanol (CAS 111-76-2)		A3 Confirmed animal carcinogen with unknown relevance to humans.
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
2-Butoxyethanol (CAS 111-76-2)		3 Not classifiable as to carcinogenicity to humans.
<b>Neurological effects</b>	Excessive exposures may affect human health, as follows: May cause central nervous system effects.	
<b>Reproductive toxicity</b>	Not classified. Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - single exposure</b>	Not classified. Based on available data, the classification criteria are not met.	
<b>Specific target organ toxicity - repeated exposure</b>	Not classified. Based on available data, the classification criteria are not met. Corrosive.	
<b>Teratogenicity</b>	Not classified. Based on available data, the classification criteria are not met.	
<b>Aspiration hazard</b>	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.	
<b>Mixture versus substance information</b>	No information available.	
<b>Routes of exposure</b>	Eye contact. Ingestion. Inhalation. Skin contact.	
<b>Pre-existing conditions aggravated by exposure</b>	Asthma, Respiratory disorders and dermatitis	

<b>Symptoms</b>	Corrosive effects. Contact with this material will cause burns to the skin, eyes and mucous membranes. Aspiration may cause pulmonary oedema and pneumonitis.
	2-Butoxyethanol: Irritating to eyes, respiratory system and skin. May be absorbed through the skin in harmful amounts. May cause central nervous system effects. Oedema. Kidney disorders Liver disorders
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** No information is available about the potential of this material to produce adverse environmental effects.

Components	Species	Test results
2-Butoxyethanol (CAS 111-76-2)		
<b>Aquatic</b>		
Crustacea	EC50	Daphnia magna 1000 mg/l, 48 hours
Fish	LC50	Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours 1250 mg/l, 96 hours Marine water

**12.2. Persistence and degradability** No data is available on the degradability of this product.

**12.3. Bioaccumulative potential** Potential to bioaccumulate is low.

**Partition coefficient n-octanol/water (log Kow)**

2-Butoxyethanol 0,83

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** Mobile.

**Mobility in general** Mobile.

**12.5. Results of PBT and vPvB assessment** Not assigned.

**12.6. Other adverse effects**

None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods/information** Dispose of contents/container in accordance with local/regional/national/international regulations.

**EU waste code** Waste codes should be assigned by the user based on the application for which the product was used. The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Residual waste** Dispose of in accordance with local regulations.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Dispose of in accordance with local regulations.

## SECTION 14: Transport information

### General Shipping Information

#### Basic Shipping Information

<b>ID number</b>	UN1805
<b>Proper shipping name</b>	Phosphoric acid solution
<b>Hazard class</b>	8
<b>Packing group</b>	III

#### Disclaimer

This section provides basic classification information and, where relevant, information with respect to specific modal regulations, environmental hazards & special precautions. Otherwise, it is presumed that the information is not available/not relevant.

## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended**

Not listed.

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended**

Not listed.



**Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

**Authorisations****Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use****Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use**

Not regulated.

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

Not listed.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended**

Not listed.

**Other EU regulations****Directive 2012/18/EU on major accident hazards involving dangerous substances**

Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended**

2-Butoxyethanol (CAS 111-76-2)

Phosphoric acid (CAS 7664-38-2)

**Directive 94/33/EC on the protection of young people at work, as amended**

Phosphoric acid (CAS 7664-38-2)

**Other regulations**

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations**

Not available.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

# Danger

Contains Phosphoric acid; 2-Butoxyethanol

## Hazard statements

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H318 - Causes serious eye damage.

## Precautionary statements

P270 - Do not eat, drink or smoke when using this product.

P264 - Wash thoroughly after handling.

P260 - Do not breathe mist or vapour.

Wear protective gloves/clothing and eye/face protection.

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P363 - Wash contaminated clothing before reuse.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 - Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P401 - Store in accordance with local/regional/national/international regulations.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

CORROSIVE.

EUH071 - Corrosive to the respiratory tract. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.

FIRE FIGHTING MEASURES:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

IN CASE OF SPILL:

Dike far ahead of spill for later disposal. Ensure adequate ventilation, especially in confined areas. Large spills may be Neutralised with dilute alkaline solutions of soda ash, or lime. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Wear appropriate personal protective equipment.

See Arconic SDS Number 1438



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## SECTION 16: Other information

**SDS Status:** July 11, 2017: Change(s) in Section: 1, 5, 15 and 16.  
June 28, 2017: Change(s) in Section: 2, 7, 8, 15 and 16.  
May 25, 2017: New SDS.

Hazardous Materials Control Committee  
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**Revision date** July 11, 2017.

**Recommended restrictions** For industrial use only.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.

### Other information

- Guide to Occupational Exposure Values 2012, Compiled by the American Conference of Governmental Industrial Hygienists (ACGIH).
- NIOSH Pocket Guide to Chemical Hazards, U.S. Department of Health and Human Services, September 2005.
- expub, Expert Publishing, LLC., www.expub.com,
- Ariel, 3E Company, www.3Ecompany.com

#### Key/Legend:

ACGIH American Conference of Governmental Industrial Hygienists  
AICS Australian Inventory of Chemical Substances  
CAS Chemical Abstract Services  
CERCLA Comprehensive Environmental Response, Compensation, and Liability Act  
CFR Code of Federal Regulations  
CPR Cardio-pulmonary Resuscitation  
DOT Department of Transportation  
DSL Domestic Substances List (Canada)  
EC Effective Concentration  
ED Effective Dose  
EINECS European Inventory of Existing Commercial Chemical Substances  
ENCS Japan - Existing and New Chemical Substances  
EWC European Waste Catalogue  
EPA Environmental Protective Agency  
IARC International Agency for Research on Cancer  
LC Lethal Concentration  
LD Lethal Dose  
MAK Maximum Workplace Concentration (Germany) "maximale Arbeitsplatz-Konzentration"  
NDSL Non-Domestic Substances List (Canada)  
NIOSH National Institute for Occupational Safety and Health  
NTP National Toxicology Program  
OEL Occupational Exposure Limit  
OSHA Occupational Safety and Health Administration  
PIN Product Identification Number  
PMCC Pensky Marten Closed Cup  
RCRA Resource Conservation and Recovery Act  
SARA Superfund Amendments and Reauthorization Act  
SIMDUT Système d'Information sur les Matières Dangereuses Utilisées au Travail  
STEL Short Term Exposure Limit  
TCLP Toxic Chemicals Leachate Program  
TDG Transportation of Dangerous Goods  
TLV Threshold Limit Value  
TSCA Toxic Substances Control Act  
TWA Time Weighted Average  
WHMIS Workplace Hazardous Materials Information System  
m metre, cm centimetre, mm millimetre, in inch,  
g gram, kg kilogram, lb pound, µg microgram,  
ppm parts per million, ft feet

\*\*\* End of SDS \*\*\*

**CONTAINS:** Cobalt; Chromium; Nickel; Tungsten; Iron; Molybdenum; Tantalum; Aluminium; Carbon; Manganese; Niobium; Silicon; Vanadium

### Hazard statements

- H302 - Harmful if swallowed.  
 H361 - Suspected of damaging fertility or the unborn child.  
 H317 - May cause an allergic skin reaction.  
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H350 - May cause cancer.  
 H372 - Causes damage to organs through prolonged or repeated exposure.  
 H412 - Harmful to aquatic life with long lasting effects.  
 May form combustible dust concentrations in air.

### Precautionary statements

- P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood.  
 P264 - Wash thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P272 - Contaminated work clothing should not be allowed out of the workplace.  
 P260 - Do not breathe dust/fume. P285 - In case of inadequate ventilation wear respiratory protection.  
 P280 - Wear protective gloves and eye/face protection.  
 P273 - Avoid release to the environment.  
 Prevent dust accumulation to minimize explosion hazard.  
 P308 + P313 - IF exposed or concerned: Get medical advice/attention.  
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P330 - Rinse mouth.  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.  
 P363 - Wash contaminated clothing before reuse.  
 P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.  
 P391 - Collect spillage.  
 P401 - Store in accordance with local/regional/national/international regulations.  
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains (Cobalt, Nickel). May produce an allergic reaction. Dust and fume from processing: Can cause irritation of the eyes, skin and respiratory tract. Can cause respiratory sensitisation, asthma, scarring of the lungs, damage to the heart muscle and perforation of the nasal septum. May cause sensitisation by inhalation and skin contact.

Additional health effects from elevated temperature processing (e.g., welding, melting): Chronic overexposures: Can cause kidney damage, damage to the heart muscle, perforation of the nasal septum, respiratory sensitisation, asthma, the accumulation of fluid in the lungs, lung damage, benign lung disease, central nervous system damage, secondary Parkinson's disease, reproductive harm, reduction in the number of red blood cells, nasal cancer and lung cancer.

Non-combustible as supplied. Dust and fines from processing may be ignitable. Explosion/fire hazards may be present when:

- Contact of molten metal with water or moisture can result in a rapid generation of steam which may produce a violent splattering of molten metal.
- Heavily concentrated dust clouds are dispersed in the air.

**FIRE FIGHTING MEASURES:** Use Class D extinguishing agents on fines, dust or molten metal. Otherwise, use fire fighting methods and materials that are appropriate for surrounding fire.

DO NOT USE water in fighting fires around molten metal.

**IN CASE OF SPILL:** Avoid the generation of dusts during clean-up. Collect scrap for recycling. Pick up mechanically. Use natural bristle broom and non-sparking shovel. Keep in suitable, closed containers for disposal. If molten: Use dry sand to contain the flow of material. All tooling (e.g., shovels or hand tools) and containers which come in contact with molten metal must be preheated or specially coated and approved for such use. Allow the spill to cool before remelting as scrap.

See Arconic SDS Number 1147.

# Danger



**ARCONIC**

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