

SAFETY DATA SHEET

BW 002 Solid Stainless steel wire electrodes and rods



Version number: 1
Revision number: 1
Replaces SDS: 2009-11-23
Issued: 2014-10-14

Not for sale in the USA

Section 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name BOC Stainless Steel MIG Wire 308LSi, BOC Stainless Steel MIG Wire 309LSi, BOC Stainless Steel MIG Wire 316LSi, BOC Stainless Steel MIG Wire 307Si, BOC Stainless Steel MIG Wire 409Nb, BOC Stainless Steel MIG Wire 316LMn Ferrite Free, BOC Nickel MIG Wire ER Ni1, ProFill 308LSi, ProFill 309LSi, ProFill 316LSi, ProFill 347

Article-no

Product/Article	Diameter(mm)	Packaging (kg)	Part Number
BOC Stainless Steel MIG Wire 308LSi	0.9	15	109308
BOC Stainless Steel MIG Wire 309LSi	0.9	15	109309
BOC Stainless Steel MIG Wire 316LSi	0.9	15	109316
BOC Stainless Steel MIG Wire 307Si	1.2	15	112307
BOC Stainless Steel MIG Wire 409Nb	0.9	15	109409Nb
BOC Stainless Steel MIG Wire 308LSi	1.2	15	112308
BOC Stainless Steel MIG Wire 309LSi	1.2	15	112309
BOC Stainless Steel MIG Wire 316LSi	1.2	15	112316
BOC Stainless Steel MIG Wire 316LMn Ferrite Free	1.2	15	112316NF
BOC Stainless Steel MIG Wire 316LSi	0.8	1	1083161
BOC Stainless Steel MIG Wire 308LSi	0.9	1	1093081
BOC Stainless Steel MIG Wire 309LSi	0.9	1	1093091
BOC Stainless Steel MIG Wire 316LSi	0.9	1	1093161
BOC Stainless Steel MIG Wire 308LSi	0.9	5	1093085
BOC Stainless Steel MIG Wire 309LSi	0.9	5	1093095
BOC Stainless Steel MIG Wire 316LSi	0.9	5	1093165
BOC Stainless Steel MIG Wire 308L	0.9	200	109308L200
BOC Nickel MIG Wire ER Ni1	0.8	15	108ERNI1
BOC Nickel MIG Wire ER Ni1	0.9	15	109ERNI1
BOC Nickel MIG Wire ER Ni1	1.2	15	112ERNI1
ProFill 308LSi	1.2	5	BTGS308L12
ProFill 308LSi	1.6	5	BTGS308L16
ProFill 308LSi	2.0	5	BTGS308L20

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ProFill 308LSi	2.4	5	BTGS308L24
ProFill 308LSi	3.2	5	BTGS308L32
ProFill 309LSi	1.6	5	BTGS309L16
ProFill 309LSi	2.0	5	BTGS309L20
ProFill 309LSi	2.4	5	BTGS309L24
ProFill 309LSi	3.2	5	BTGS309L32
ProFill 316LSi	0.9	5	BTGS316L09
ProFill 316LSi	1.2	5	BTGS316L12
ProFill 316LSi	1.6	5	BTGS316L16
ProFill 316LSi	1.6	1	BTGS316L161
ProFill 316LSi	2.0	5	BTGS316L20
ProFill 316LSi	2.4	5	BTGS316L24
ProFill 316LSi	3.2	5	BTGS316L32
ProFill 347	1.6	5	BTGS34716
ProFill 347	2.0	5	BTGS34720
ProFill 347	2.4	5	BTGS34724
ProFill 347	3.2	5	BTGS34732

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

Article type	GMAW/GTAW : Solid stainless steel wire electrodes and rods AWS SFA 5.9 (or other)
Use	Gas shielded arc welding

1.3 Details of the supplier of the safety data sheet

Supplier	BOC Limited	BOC Limited
Street address	10 Julius Avenue North Ryde NSW 2113 Australia	970-988 Great South Road Penrose, Auckland New Zealand
Telephone	131 262	0800 111 333
Fax	132 427	0800 229 923
Email	<u>contact@boc.com</u>	<u>customer.servicenz@boc.com</u>

1.4 Emergency telephone number

Available outside office hours	Yes
Emergency phone number	1800 653 572 (Aus) or 0800 111 333 (NZ)

Other

Additional product information Web site: www.boc.com.au or www.boc.co.nz

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

As shipped the product is:

Not Classified as Hazardous according to Australian, New Zealand and European regulations (refer Section 15 for references)

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Not a Dangerous Good for Transport by road, rail, air or sea according to Australian, New Zealand, European, IMO, and IATA.

GHS Classification Not Classified

2.2 Label Elements

Not Applicable

2.3 Other hazards

When the product is used in the welding process the most important hazards are:
Overexposure to fumes and gases from welding released from the welding process may release products that are classified as hazardous and can be dangerous to health. Refer to Section 16 for more information.
Watch out for splatter, hot metal and slag. It may cause skin burn and cause fire.
Arc rays can injure eyes and burn skin. Electric shock can kill. Avoid touching live electrical parts.

Section 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is a mixture and please refer to Section 3.2

3.2 Mixtures

AWS Class	Fe %	C (max) %	Mn %	Si %	Cr %	Ni %	Mo %	Other
CAS Number	7439-89-6	7440-44-0	7439-96-5	7440-21-3	7440-47-3	7440-02-0	7439-98-7	
ER308	bal	0.08	1.0 to 2.5	0.3 to 0.65	19.5 to 22.0	9.0 to 11.0	0.75 max	
ER309	bal	0.12	1.0 to 2.5	0.3 to 0.65	23.0 to 25.0	12.0 to 14.0	0.75 max	
ER309Mo	bal	0.12	1.0 to 2.5	0.3 to 0.65	23.0 to 25.0	12.0 to 14.0	2.0 to 3.0	
ER316	bal.	0.08	1.0 to 2.5	0.3 to 0.65	18.0 to 20.0	11.0 to 14.0	2.0 to 3.0	
ER321	bal	0.08	1.0 to 2.5	0.3 to 0.65	18.5 to 20.5	9.0 to 10.5	0.75 max	Ti 1.0 max CAS Number 7440-32-6
ER347	bal	0.08	1.0 to 2.5	0.3 to 0.65	19.0 to 21.5	9.0 to 11.0	0.75 max	Cb 1.0 max CAS Number 7440-03-1
ER410	bal	0.12	0.6 max	0.5 max	11.5 to 13.5	0.6 max	0.75 max	

Section 4. FIRST AND MEASURES

4.1 Description of first aid measures

Inhalation IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position

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	comfortable for breathing. Call a physician if symptoms occur.
Skin contact	Burns should be treated by a doctor. Wash affected areas with running water/soap. Seek medical attention in event of irritation
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Burns from radiation, see doctor.
Ingestion	Contact a doctor if more than an insignificant amount has been swallowed.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Welding can generate fumes, mists, dust, vapours and gases, including ozone. The amounts and types of fumes produced vary greatly depending on the process involved and the materials being used such as metals, solvents, flux, paint and plastics. The health effects of exposure to fumes, dust, vapour and gases can vary. Effects can include irritation of the upper respiratory tract (nose and throat), tightness in the chest, asphyxiation, asthma, wheezing, metal fume fever, lung damage, bronchitis, cancer, pneumonia or emphysema.
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4.3 Indication of any immediate medical attention and special treatment needed

Acute effects include irritation of the eyes, nose and throat, shortness of breath

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO ₂), powder or diffuse jet of water. In case of major fire: Extinguish fire with diffuse jet of water or foam.
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5.2 Special hazards arising from the substance or mixture

Avoid contact with strong acids or other substances which are corrosive to metals

5.3 Advice for fire fighters

Special protective equipment for fire fighters	Wear self contained breathing apparatus as in a fire welding rods may decompose on heating and produce hazardous decomposition products
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Section 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General ventilation and local fume extraction must be adequate to keep fume concentrations within safe limits. Use respiratory equipment when welding in a confined space. Wear protective clothing and eye protection appropriate to arc welding. Skin contact should be avoided to prevent possible allergic reactions.

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6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.

6.3 Methods and material for containment and cleaning up

Spills to be cleaned up immediately using dry clean up methods and avoid dust generation

Use appropriate PPE to prevent contact with skin

Ensure good hygiene practices following clean up

6.4 Reference to other sections

Personal protection see section 8 and for disposal see section 13. Environmental precautions, paragraph 12. See also section 7

Precautions for safe handling.

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Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Preventive handling precautions	Ensure adequate ventilation for the welder and others. Use respiratory equipment when welding in a confined space. Wear protective clothing and eye protection appropriate to arc welding. Remove all flammable materials and liquids before welding.
General hygiene	Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store welding consumables inside a room with low humidity. Do not store welding consumables directly on the ground or beside walls. Store away from chemical substances like acids which could cause chemical reactions.

7.3 Specific end use(s)

Welding process.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Welding fume component	CAS No.	TWA ¹ (mg/m ³)	STEL ¹ 15min (mg/m ³)	Hazard Classification 67/548/EC	Hazard Classification (GHS) 1272/2008
Welding fumes (not otherwise classified)	-	5		R43	H351 Carc.2
Iron oxide fume (as Fe)	1309-37-1	5			H332 Acute Tox.4
Manganese, fume (as Mn)	7439-96-5	1	3	R20/R22	H351 Carc.2 H317skin sens 1/ H413 Aquatic Ch.4
Nickel and its inorganic compounds Water soluble	7440-02-0	0.1		R40/R43 R49/R53	H351 Carc.2 H317skin sens 1/ H413 Aquatic Ch.4
Chromium III compounds (as Cr)	24613-89-6			R45: R43:	H351 Carc. 2 H317 skin sens 1
Silica, amorphous Fume (thermally generated) (respirable dust)	-		6		
Chromium VI Compounds Certain water insoluble Water soluble			0.05 0.05		

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Molybdenum		5		
(compounds, soluble)	7439-98-7	10		
(compounds, insoluble)				
Carbon Dioxide	124-38-9	9000	54000	
Carbon Monoxide	630-08-0	34		
Nitrogen dioxide (NO ₂)	10102-44-0	5.6	9.4	
Ozone (O ₃)	10028-15-6	0,2 peak limitation		
Nitrogen oxide (NO)	10102-43-9	31		

1. **Extracted from Safework Australia, Hazardous Substances Information System (HSIS) & Worksafe New Zealand Table of workplace exposure standards**

8.2 Exposure controls

Environmental Exposure Controls – Refer to Section 6 of this SDS

Technical precaution measures	General ventilation and local fume extraction must be adequate to keep fume concentrations within safe limits.
Eye / face protection	Workers should always have their eyes, face and/or head protected whenever they are welding. For further information refer to: AS/NZS 1338: (series) Filters for eye protectors, AS/NZS 1338.1: Filters for eye protectors - Filters for protection against radiation generated in welding and allied operations and AS/NZS 1336: <i>Recommended practices for occupational eye protection</i> and AS/NZS 1337: <i>Eye protectors for industrial applications</i>
Hand/Arm protection	Gloves should be fire resistant and protect exposed skin on the hands and wrists. For further information refer to: AS/NZS 2161: (series) <i>Occupational protective gloves</i> .
Other skin protection	Avoid clothing that has the potential to capture hot sparks and metals, for example in pockets or other folds. Clothing should be made of natural fibres. For further information refer to: AS/NZS 4502: (series) <i>Methods for evaluating clothing for protection against heat and fire</i> . Foot protection should be non-slip and be heat and fire resistant. Avoid using foot protection that has the potential to capture hot sparks and metal debris, for example in laces or in open style shoes. For further information refer to: AS/NZS 2210: (series) <i>Occupational protective footwear</i> and AS/NZS 2210.1: <i>Safety, protective and occupational footwear - Guide to selection, care and use</i> .
Respiratory protection	Respirators should be fitted for each person individually and if one is to be used by another operator, it must be disinfected and refitted before use. The tightness of all connections and the condition of the face piece, headbands and valves should be checked before each use. Air supplied respirators may be required in some situations, e.g. confined spaces. For further information refer to: AS/NZS 1716: <i>Respiratory protective devices</i> and be

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selected in accordance with AS/NZS 1715: Selection, use and maintenance of respiratory protective equipment.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance, colour	Grey
Appearance, physical state	Rod
Auto-ignition temperature	Not applicable
Auto-inflammability	Not auto-flammable
Decomposition temperature	Not applicable
Evaporation rate	Not applicable
Explosive properties	Not explosive
Flammability (solid gas)	Not applicable
Flash point	Not applicable
Form	Fast
Initial boiling point and boiling range	Not applicable
Melting point / Freezing point	Not applicable
Odour	Odourless
Odour threshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH value	Not applicable
Relative density	Not applicable
Solubility	Not applicable
Solubility in water	Insoluble
Upper / lower flammability or	Not applicable

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explosive limits

Vapour density Not applicable

Vapour pressure Not applicable

Viscosity Not applicable

9.2 Other information

Not applicable

Other

Density 7.98 g/cm³

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

Reactive with incompatible materials such as strong acids/corrosives

10.2 Chemical stability

Stable at normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur

10.4 Conditions to avoid

None under normal conditions

10.5 Incompatible materials

Strong acids and metal corrosives

10.6 Hazardous decomposition products

Welding fumes and gases. Additional fume may arise from coatings and contaminants on the base material.

Welding fume component	CAS No.	Classification (67/548EEC)	CLP (1272/2008)		Concentration of classified fume components
Aluminium oxide (Al)	1344-28-1	-	-	-	<0.1
Barium (Ba)	7440-39-3	-	-	-	0.1
Bismuth oxide (Bi)	12640-40-3	-	-	-	0.1 to 0.4
Calcium (Ca)	1305-78-8	-	-	-	0.1

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Cobalt oxide (Co)	1307-96-6	R22: Harmful if swallowed R43: May cause sensitisation by contact	Acute tox 4 (oral) Skin sens. 1	H302 H317	0.1
Chromium III compounds (as Cr)	24613-89-6	R45: May cause cancer R35: Causes severe burns R43: May cause sensitisation by skin contact	Carc. 1B Skin Corr. 1A Skin Sens. 1	H350 H314 H317	6.0 to 17.8
Chromium VI compounds (as Cr)	1333-82-0	R45: May cause cancer R46: May cause heritable genetic damage R24/25 Toxic in contact with skin and if swallowed R26: Very Toxic by inhalation R35: Causes severe burns R42/43: May cause sensitisation by inhalation and skin contact R48/23: Toxic danger of serious damage to health by prolonged exposure through inhalation R62 Possible risk of impaired fertility	Carc 1A Muta 1B Repr. 2 Acute tox 2 (inhal) Acute tox 3 (oral/dermal) STOT RE 1 Skin corr 1A Resp sens 1 Skin Sens 1 STOT SE 3 (C≥1%)	H350 H340 H361f H330 H311 H301 H372 H314 H334 H317 H335	0.07 to 0.61
Copper oxide (Cu)	1317-38-0	-	-	-	0.1 to 0.6
Iron oxide (Fe)	1332-37-2	-	-	-	12.3 to 57.0
Potassium (K)	7440-09-7	R34: Causes burns	Skin Corr. 1B	H314	0.1 to 0.3
Lithium (Li)	7439-93-2	R34: Causes burns	Skin Corr. 1B	H314	0.1
Magnesium oxide (Mg)	1309-48-4	-	-	-	0.1
Manganese (Mn)	7439-96-5	-	-	-	0.9 to 46.1
Molybdenum (Mo)	7439-98-7	Molybdenum trioxide R36/37: Irritating to eyes and respiratory system R40: Limited evidence of carcinogenic effect	Molybdenum trioxide Carc. 2 Eye Irrit. 2 STOT SE 3	H351 H319 H335	0.1 to 0.6
Sodium (Na)	7440-23-5	R34: Causes burns	Skin Corr. 1B	H314	0.1 to 0.6

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Nickel (Ni)	7440-02-0	R40: Limited evidence of carcinogenic effect R43: May cause sensitisation by skin contact R48/23: Toxic danger of serious damage to health by prolonged exposure through inhalation R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment	Carc. 2 Skin sens 1 STOT RE 1	H351 H317 H372	0.6 to 8.0
Lead (Pb)	7439-92-1	-	-	-	0.1
Silicon (Si)	7440-21-3	-	-	-	0.3 to 1.3
Titanium dioxide (Ti)	13463-67-7	-	-	-	0.1
Vanadium (V)	7440-62-2	-	-	-	0.1
Zinc (Zn)	7440-66-6	-	-	-	0.1 to 1.1

The Classification information above refers to the fume during use

An elemental analysis of the fumes is shown below

Component	wt%	Component	wt%
Chromium (III)	6 to 17.8	Chromium (VI)	0.07 to 0.61
Calcium	< 0.1	Iron	12.3 to 57
Manganese	1.9 to 46.1	Nickel	0.6 to 8
Silicon	0.3 to 1.3	Molybdenum	0.1 to 0.6

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Conditions to avoid: none in the form supplied

When welding, fumes and gases generated can be dangerous to health.

Acute toxicology

Welding operations may evolve fumes that may be irritating to the respiratory tract and harmful if inhaled. Aspiration may cause pulmonary oedema and pneumonitis Short-term overexposure can cause dizziness, nausea and irritation of the nose, throat or eyes.

Irritation

Manganese fumes – Eye (rabbit) 500 mg/24hr Mild

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- Skin (rabbit) 500 mg/24 hr Mild

Corrosive effects	Not available
Sensitisation	May cause sensitisation by skin contact
Mutagenicity	Not available
Carcinogenicity	Welding fumes are possibly carcinogenic to humans and have been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans
Repeated dose toxicity	Not available
Reproductive toxicity	Not available

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

The welding process can effect the environment if fume is released directly into the atmosphere. Residues from welding consumables could degrade and accumulate into soils and ground water.

Aquatic Cr(VI) is suspected of being very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

Acute fish toxicity LC50 Fish 96h:
Manganese: 2,91 mg/l
Aluminiumoxide: >100 mg/l Salmo trutta

Acute algae toxicity IC50 Algae 72h:
Manganese: 0,55 mg/l
Aluminiumoxide: >100 mg/l Selenastrum capricornatum (green algae)

Acute crustacean toxicity EC50 Daphnia 48h:
Manganese: 5,2 mg/l
Aluminiumoxide: >100 mg/l Daphnia magna (Water flea)

12.2 Persistence and degradability

Not available

12.3 Bio accumulative potential

Not available

12.4 Mobility in Soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

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12.6 Other adverse effects

Not available

Section 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal considerations

Recycle packing materials. Dispose of any product, residue or packing material according to national and local regulations. Spent fume extraction filters shall be disposed of as hazardous waste.

Section 14. TRANSPORT INFORMATION

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other

Dangerous goods

Not classified as a dangerous good for transport by air, land, or sea

Section 15. REGULATORY INFORMATION

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

EU regulations	<p><i>Dangerous Goods Regulations/2014 (IATA)</i></p> <p><i>International Maritime Dangerous Goods/2012 (IMO)</i></p> <p><i>Regulation (EC) No 1271/2008 [CLP]</i></p> <p><i>Dangerous Substances Directive (67/548/EEC)</i></p>
National regulations	<p><i>Model Work and Safety Regulations 2014 (Safework Australia)</i></p> <p><i>Hazardous Substances [Classification] Regulations 2001 [New Zealand]</i></p> <p><i>Australian Code for the transport of Dangerous Goods by Road and Rail Volume 7/2011 (NTC)</i></p> <p><i>Land Transport Rule 45001/1 (New Zealand)</i></p> <p><i>Local laws and regulations should be carefully observed.</i></p>

15.2 Chemical safety assessment

Not applicable

Section 16. OTHER INFORMATION

References to key literature and data sources	<p>Regulation (EC) No 1907/2006 of the European Parliament and of the Council, (REACH).</p> <p>Regulation (EC) No 1272/2008 of the European Parliament and of the Council.</p> <p>Safework Australia: Hazardous Substances Information System (HSIS)</p> <p>Worksafe New Zealand: Table of workplace exposure standards</p> <p>Annex VI CLP Regulation (EC) 1272/2008</p> <p>Safework Australia: Code of Practice : Welding Processes/2012</p>
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Other

Manufacturer's notes	<p><i>Read this Safety Data Sheet carefully and become aware of hazards implied and the safety information.</i></p>
Details of Hazards relating to fumes	<p>As a result of intended normal use, decomposition products that are classified as Hazardous may be released.</p>
<i>GHS Classification</i>	<p>Acute Toxicity – Inhalation (Hazard Category 4)</p> <p>Sensitisation – Skin (Hazard Category 1)</p> <p>Carcinogenicity (Hazard Category 2)</p> <p>Chronic Aquatic Toxicity (Category 4)</p>
<i>Hazard statement(s)</i>	<p>H332 – Harmful if inhaled</p> <p>H317 - May cause an allergic skin reaction</p> <p>H351 – Suspected of causing cancer</p> <p>H413 - May cause long lasting harmful effects to aquatic life</p>
<i>Precautionary statements (s):</i>	<p><u>Prevention</u></p> <p>P201 -Obtain special instructions before use</p> <p>P202 - Do not handle until all safety precautions have been read and understood.</p> <p>P261 - Avoid breathing dust/fume/gas/mist/ vapours/spray</p> <p>P271 - Use only outdoors or in a well-ventilated area.</p>

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P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves
P201 - Obtain special instructions before use.
P281 - Use personal protective equipment as required.
P273 - Avoid release to the environment

Response

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311 - Call a POISON CENTER or doctor/physician.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.
P308 + P313 - IF exposed or concerned: Get medical advice/attention.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P321 - Specific treatment (refer label)
P363 - Wash contaminated clothing before reuse.

Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/container in accordance with local , state and national regulations.

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