

# **Atorn Bright Zinc 400ml**

### **Thomas Warburton**

Chemwatch: **4744-39** Version No: **4.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

### Chemwatch Hazard Alert Code: 4

Issue Date: **17/12/2018**Print Date: **17/12/2018**S.GHS.AUS.EN

# SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	Atorn Bright Zinc 400ml
Synonyms	Manufacturer's Code: 1928499002
Proper shipping name	AEROSOLS
Other means of identification	Not Available

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

Relevant identified uses

Application is by spray atomisation from a hand held aerosol pack
Used for protection of metal surfaces.

# Details of the supplier of the safety data sheet

Registered company name	Thomas Warburton
Address	481 Frankston Dandenong Road Dandenong South VIC 3175 Australia
Telephone	+61 3 9574 3400
Fax	+61 3 9574 3456
Website	Not Available
Email	Not Available

# **Emergency telephone number**

Association / Organisation	Not Available
Emergency telephone numbers	+61 3 9574 3400
Other emergency telephone numbers	Not Available

# **SECTION 2 HAZARDS IDENTIFICATION**

### Classification of the substance or mixture

### HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Poisons Schedule	Not Applicable	
Classification [1] Aerosols Category 1, Acute Toxicity (Inhalation) Category 4, Eye Irritation Category 2A, Specific target organ single exposure Category 3 (narcotic effects)		
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI	

#### Label elements

### Hazard pictogram(s)





SIGNAL WORD

D DANGER

### **Hazard statement(s)**

H222	Extremely flammable aerosol.	
H332 Harmful if inhaled.		
H319	Causes serious eye irritation.	
H336	May cause drowsiness or dizziness.	
AUH044	Risk of explosion if heated under confinement.	

### Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.

### Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

# Precautionary statement(s) Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

# Precautionary statement(s) Disposal

P501	Dispose of contents/container in accordance with local regulations.

# **SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

### **Substances**

See section below for composition of Mixtures

# Mixtures

CAS No	%[weight]	Name
67-64-1	1-19	acetone
141-78-6	1-19	ethyl acetate
1330-20-7	1-12.4	xylene
64742-48-9.	1-9	naphtha petroleum, heavy, hydrotreated
123-86-4	1-10	n-butyl acetate
7429-90-5	1-10	<u>aluminium</u>
71-36-3	1-4	n-butanol
Not Available		propellant, as
115-10-6	30-60	dimethyl ether

### **SECTION 4 FIRST AID MEASURES**

Chemwatch: **4744-39**Version No: **4.1.1.1** 

Page 3 of 13

Atorn Bright Zinc 400ml

Issue Date: 17/12/2018 Print Date: 17/12/2018

### Description of first aid measures

Eye Contact	If aerosols come in contact with the eyes:  Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If solids or aerosol mists are deposited upon the skin:  Flush skin and hair with running water (and soap if available).  Remove any adhering solids with industrial skin cleansing cream.  DO NOT use solvents.  Seek medical attention in the event of irritation.
Inhalation	<ul> <li>If aerosols, fumes or combustion products are inhaled:</li> <li>Remove to fresh air.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor.</li> </ul>
Ingestion	Not considered a normal route of entry.  For advice, contact a Poisons Information Centre or a doctor at once.  Urgent hospital treatment is likely to be needed.  If swallowed do NOT induce vomiting.  If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.  Observe the patient carefully.  Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.  Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.  Transport to hospital or doctor without delay.

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

Treat symptomatically.

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- $\blacksquare \ \, \text{Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure.}$
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

### **SECTION 5 FIREFIGHTING MEASURES**

#### **Extinguishing media**

SMALL FIRE:

Water spray, dry chemical or CO2

LARGE FIRE:

Water spray or fog.

### Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition
may result

### Advice for firefighters

### Fire Fighting

- ► Alert Fire Brigade and tell them location and nature of hazard.
- ► May be violently or explosively reactive.
  - Wear breathing apparatus plus protective gloves.
  - ▶ Prevent, by any means available, spillage from entering drains or water course.

#### Fire/Explosion Hazard

- ▶ Liquid and vapour are flammable.
- ▶ Moderate fire hazard when exposed to heat or flame.

Chemwatch: 4744-39 Page **4** of **13** Issue Date: 17/12/2018 Version No: 4.1.1.1 Print Date: 17/12/2018

### Atorn Bright Zinc 400ml

	<ul> <li>Vapour forms an explosive mixture with air.</li> <li>Moderate explosion hazard when exposed to heat or flame.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>
HAZCHEM	Not Applicable

# **SECTION 6 ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Wear protective clothing, impervious gloves and safety glasses.</li> <li>Shut off all possible sources of ignition and increase ventilation.</li> </ul>
Major Spills	<ul> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>May be violently or explosively reactive.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

### **SECTION 7 HANDLING AND STORAGE**

# Precautions for safe handling

Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> </ul>
Other information	<ul> <li>Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can</li> <li>Store in original containers in approved flammable liquid storage area.</li> <li>DO NOT store in pits, depressions, basements or areas where vapours may be trapped.</li> <li>No smoking, naked lights, heat or ignition sources.</li> <li>Keep containers securely sealed.</li> </ul>

### Conditions for safe storage, including any incompatibilities

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Suitable container	<ul> <li>Aerosol dispenser.</li> <li>Check that containers are clearly labelled.</li> </ul>	
Storage incompatibility	► Avoid reaction with oxidising agents	

# SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

### OCCUPATIONAL EXPOSURE LIMITS (OEL)

### INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	ethyl acetate	Ethyl acetate	200 ppm / 720 mg/m3	1440 mg/m3 / 400 ppm	Not Available	Not Available
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	80 ppm / 350 mg/m3	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	naphtha petroleum, heavy, hydrotreated	Oil mist, refined mineral	5 mg/m3	Not Available	Not Available	Not Available

Chemwatch: 4744-39 Version No: 4.1.1.1

Page 5 of 13 Issue Date: 17/12/2018 Print Date: 17/12/2018 Atorn Bright Zinc 400ml

Australia Exposure Standards	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg/m3 / 200 ppm	Not Available	Not Available
Australia Exposure Standards	aluminium	Aluminium, pyro powders (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium	Aluminium (metal dust)	10 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	aluminium	Aluminium (welding fumes) (as Al)	5 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	n-butanol	n-Butyl alcohol	Not Available	Not Available	50 ppm / 152 mg/m3	Not Available
Australia Exposure Standards	dimethyl ether	Dimethyl ether	400 ppm / 760 mg/m3	950 mg/m3 / 500 ppm	Not Available	Not Available

### **EMERGENCY LIMITS**

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
acetone	Acetone	Not Available	Not Available	Not Available
ethyl acetate	Ethyl acetate	1,200 ppm	1,700 ppm	10000 ppm
xylene	Xylenes	Not Available	Not Available	Not Available
naphtha petroleum, heavy, hydrotreated	Naphtha, hydrotreated heavy; (Isopar L-rev 2)	350 mg/m3	1,800 mg/m3	40,000 mg/m3
n-butyl acetate	Butyl acetate, n-	Not Available	Not Available	Not Available
n-butanol	Butyl alcohol, n-; (n-Butanol)	60 ppm	800 ppm	8000 ppm
dimethyl ether	Methyl ether; (Dimethyl ether)	3,000 ppm	3800 ppm	7200 ppm

Ingredient	Original IDLH	Revised IDLH
acetone	2,500 ppm	Not Available
ethyl acetate	2,000 ppm	Not Available
xylene	900 ppm	Not Available
naphtha petroleum, heavy, hydrotreated	2,500 mg/m3	Not Available
n-butyl acetate	1,700 ppm	Not Available
aluminium	Not Available	Not Available
n-butanol	1,400 ppm	Not Available
dimethyl ether	Not Available	Not Available

# **Exposure controls**

### Appropriate engineering controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

# Personal protection









# Eye and face protection

- ▶ Safety glasses with side shields.
- ► Chemical goggles.
- ► Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

### Skin protection

#### See Hand protection below

- ▶ No special equipment needed when handling small quantities.
- ► OTHERWISE:

### Hands/feet protection

- For potentially moderate exposures:
- ► Wear general protective gloves, eg. light weight rubber gloves.
- ► For potentially heavy exposures:
- ▶ Wear chemical protective gloves, eg. PVC. and safety footwear.

# **Body protection**

See Other protection below

# Atorn Bright Zinc 400ml

Issue Date: 17/12/2018 Print Date: 17/12/2018

Other protection

**Appearance** 

No special equipment needed when handling small quantities.

#### OTHERWISE:

- Overalls.
- Skin cleansing cream.
- ► Eyewash unit.

### Respiratory protection

Type AX-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Supplied as an aerosol pack. Contents under PRESSURE. Contains highly flammable ether propellant.
Silver coloured liquid with a characteristic odour: does not mix with water.

Physical state	Liquid	Relative density (Water = 1)	0.9-1.1
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	240
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	~55	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	~ -19	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	13	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.6	Volatile Component (%vol)	>60
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

# **SECTION 10 STABILITY AND REACTIVITY**

Reactivity	See section 7
Chemical stability	<ul> <li>Elevated temperatures.</li> <li>Presence of open flame.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

### **SECTION 11 TOXICOLOGICAL INFORMATION**

### Information on toxicological effects

Inhaled

Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure.

# Atorn Bright Zinc 400ml

and generally between 0.02 to 0.05 microns may be delayed for up to 12 hours and the mouth. Other symptoms include upper nucous membranes, lassitude and a generalised of fever or chills, exaggerated mental activity,
occur. centrations depress the central nervous system, irt and breathing. m depression, light-headedness, unintelligible blic acidosis, high blood sugar and ketosis.
s. The liquid may produce gastrointestinal
ormal handling and use. ons, may produce systemic injury with harmful any external damage is suitably protected.
inflammation. Repeated or prolonged exposure
with drying, cracking, irritation and dermatitis  ment and liver and blood changes. [PATTYS]  on of vapour, mist or dust in work place  d occupational work practice.
r

Atorn Bright Zinc 400ml	TOXICITY	IRRITATION
Atom Bright Zinc 400iii	Not Available	Not Available
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: =20 mg/kg <sup>[2]</sup>	Eye (human): 500 ppm - irritant
	Inhalation (rat) LC50: 100.2 mg/l/8hr <sup>[2]</sup>	Eye (rabbit): 20mg/24hr -moderate
acetone	Oral (rat) LD50: 1800-7300 mg/kg <sup>[2]</sup>	Eye (rabbit): 3.95 mg - SEVERE
		Skin (rabbit): 500 mg/24hr - mild
		Skin (rabbit):395mg (open) - mild
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >18000 mg/kg <sup>[2]</sup>	Eye (human): 400 ppm
ethyl acetate	Inhalation (mouse) LC50: 22.5 mg/l/2H <sup>[2]</sup>	
	Oral (rat) LD50: 5620 mg/kg <sup>[2]</sup>	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye (human): 200 ppm irritant
xylene	Inhalation (rat) LC50: 4994.295 mg/l/4h <sup>[2]</sup>	Eye (rabbit): 5 mg/24h SEVERE
	Oral (rat) LD50: 3523-8700 mg/kg <sup>[2]</sup>	Eye (rabbit): 87 mg mild
		Skin (rabbit):500 mg/24h moderate
	TOXICITY	IRRITATION
naphtha petroleum,	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Not Available
heavy, hydrotreated	Inhalation (rat) LC50: 8.5 mg/l/4H <sup>[2]</sup>	
	Oral (rat) LD50: >4500 mg/kg <sup>[1]</sup>	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 3200 mg/kg <sup>[2]</sup>	Eye ( human): 300 mg
n-butyl acetate	Inhalation (rat) LC50: 1.802 mg/l4 h <sup>[1]</sup>	Eye (rabbit): 20 mg (open)-SEVERE
	Oral (rat) LD50: =10700 mg/kg <sup>[2]</sup>	Eye (rabbit): 20 mg/24h - moderate

# Atorn Bright Zinc 400ml

		Skin (rabbit): 5	500 mg/24h-moderate
	TOXICITY	IRRITATION	
aluminium	Oral (rat) LD50: >2000 mg/kg <sup>[1]</sup>	Not Available	
	TOXICITY	IRRITATION	
	Dermal (rabbit) LD50: 3400 mg/kg <sup>[2]</sup> Eye (human): 50 ppm - irritant		50 ppm - irritant
n-butanol	Inhalation (rat) LC50: 24 mg/l/4H <sup>[2]</sup>	Inhalation (rat) LC50: 24 mg/l/4H <sup>[2]</sup> Eye (rabbit): 1.6 mg-SEVERE	
	Oral (rat) LD50: 790 mg/kg <sup>[2]</sup>	Oral (rat) LD50: 790 mg/kg <sup>[2]</sup> Eye (rabbit): 24 mg/24h-SEVERE	
	İ	Skin (rabbit): 4	405 mg/24h-moderate
Postdad at as	TOXICITY	IRRITATION	
dimethyl ether	Inhalation (rat) LC50: 309 mg/l/4H <sup>[2]</sup>	Not Available	
Legend:	Nalue obtained from Europe ECHA Registered Substances -     Unless otherwise specified data extracted from RTECS - Regi		
ACETONE	For acetone: The acute toxicity of acetone is low. Acetone is not a skin irrit also irritates the eye. Animal testing shows acetone may caus exposure to acetone at a level of 2375 mg/cubic metre has no	se macrocytic a	naemia. Studies in humans have shown that
XYLENE	The substance is classified by IARC as Group 3:  NOT classifiable as to its carcinogenicity to humans.  Evidence of carcinogenicity may be inadequate or limited in animal testing.  Reproductive effector in rats		
NAPHTHA PETROLEUM, HEAVY, HYDROTREATED	Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins.  The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons are ingested in association with fats in the diet.  For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system. This product contains toluene, and animal studies suggest high concentrations of toluene lead to hearing loss. This product contains ethyl benzene and naphthalene, from which animal testing shows evidence of tumour formation.  Cancer-causing potential: Animal testing shows inhaling petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans.		
ALUMINIUM	No significant acute toxicological data identified in literature so	earch.	
N-BUTANOL	Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia.  For n-butanol:  Acute toxicity: In animal testing, n-butanol (BA) was only slightly toxic, following exposure by swallowing, skin contact or irritation. Animal testing and human experience suggest that n-butanol is moderately irritating to the skin but severely irritating to the eye. Human studies show that BA is not likely to cause skin sensitization. Warning of exposure occurs before irritation of the nose, because n-butanol has an odour which can be detected below concentration levels cause irritation.		
ACETONE & XYLENE & N-BUTYL ACETATE & N-BUTANOL	The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin.		
XYLENE & N-BUTYL ACETATE & N-BUTANOL	The material may produce severe irritation to the eye causing to irritants may produce conjunctivitis.	pronounced inf	lammation. Repeated or prolonged exposure
Acute Toxicity	<b>✓</b> Car	cinogenicity	×
Skin Irritation/Corrosion	× Reproductivity ×		×
Serious Eye Damage/Irritation	✓ STOT - Sing	gle Exposure	<b>✓</b>
Respiratory or Skin sensitisation	X STOT - Repeated Exposure		

Legend:

Issue Date: 17/12/2018 Print Date: 17/12/2018

Mutagenicity X

**Aspiration Hazard** 



🗶 – Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

# **SECTION 12 ECOLOGICAL INFORMATION**

# **Toxicity**

	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURCE
Atorn Bright Zinc 400ml	Not Available	Not Available	Not Available		Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		5-540mg/L	2
acetone	EC50	48	Crustacea		>100mg/L	4
	EC50	96	Algae or other aquatic plants		20.565mg/L	4
	NOEC	240	Crustacea	1	1-866mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		54.314mg/L	3
	EC50	48	Crustacea	1	1-350mg/L	2
ethyl acetate	EC50	96	Algae or other aquatic plants		4.146mg/L	3
	BCF	24	Algae or other aquatic plants		0.05mg/L	4
	NOEC	48	Algae or other aquatic plants	;	>1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		2.6mg/L	2
xylene	EC50	48	Crustacea		1.8mg/L	2
	EC50	72	Algae or other aquatic plant	ts	3.2mg/L	2
	NOEC	73	Algae or other aquatic plant	ts	0.44mg/L	2
naphtha petroleum,	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		4.1mg/L	2
heavy, hydrotreated	EC50	48	Crustacea		4.5mg/L	2
	EC50	72	Algae or other aquatic plan	nts	>1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	,	VALUE	SOURC
	LC50	96	Fish		18mg/L	4
	EC50	48	Crustacea		=32mg/L	1
n-butyl acetate	EC50	96	Algae or other aquatic plants		1.675mg/L	3
	EC90	72	Algae or other aquatic plants		1-540.7mg/L	2
	NOEC	504	Crustacea		23.2mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALU	IE	SOURC
	LC50	96	Fish	0.00	1-0.134mg/L	2
	EC50	48	Crustacea	0.73	64mg/L	2
aluminium	EC50	72	Algae or other aquatic plants	0.00	1-0.799mg/L	2
	BCF	360	Algae or other aquatic plants	9mg	/L	4
	NOEC	168	Crustacea	0.00	1-mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES		VALUE	SOURC
	LC50	96	Fish		1-376mg/L	2
	EC50	48	Crustacea		1-328mg/L	2
n-butanol	EC50	96	Algae or other aquatic plants	s	225mg/L	2
	BCF	24	Fish		921mg/L	4
	EC0	48	Crustacea		1-260mg/L	2

Chemwatch: 4744-39 Page 10 of 13 Issue Date: 17/12/2018 Version No: 4.1.1.1 Print Date: 17/12/2018

### Atorn Bright Zinc 400ml

	NOEC	504	Crustacea	4.1mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	1-783.04mg/L	2
dimethyl ether	EC50	48	Crustacea	>4400.0mg/L	2
	EC50	96	Algae or other aquatic plants	154.917mg/L	2
	NOEC	48	Crustacea	>4000mg/L	1
Legend:	Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data				

Harmful to aquatic organisms.

**DO NOT** discharge into sewer or waterways.

WGK: Classification in accordance with German Water Resources Act.

|Water hazard class 2 (Self-assessment): hazardous to water.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
ethyl acetate	LOW (Half-life = 14 days)	LOW (Half-life = 14.71 days)
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
n-butyl acetate	LOW	LOW
n-butanol	LOW (Half-life = 54 days)	LOW (Half-life = 3.65 days)
dimethyl ether	LOW	LOW

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
acetone	LOW (BCF = 0.69)
ethyl acetate	HIGH (BCF = 3300)
xylene	MEDIUM (BCF = 740)
n-butyl acetate	LOW (BCF = 14)
n-butanol	LOW (BCF = 0.64)
dimethyl ether	LOW (LogKOW = 0.1)

# Mobility in soil

Ingredient	Mobility
acetone	HIGH (KOC = 1.981)
ethyl acetate	LOW (KOC = 6.131)
n-butyl acetate	LOW (KOC = 20.86)
n-butanol	MEDIUM (KOC = 2.443)
dimethyl ether	HIGH (KOC = 1.292)

# **SECTION 13 DISPOSAL CONSIDERATIONS**

### Waste treatment methods

**Product / Packaging** disposal

- ► Consult State Land Waste Management Authority for disposal.
- ▶ Discharge contents of damaged aerosol cans at an approved site.
- ▶ Allow small quantities to evaporate.
- ▶ DO NOT incinerate or puncture aerosol cans.

# **SECTION 14 TRANSPORT INFORMATION**

### **Labels Required**

# Atorn Bright Zinc 400ml



# Land transport (ADG)

UN number	1950	
UN proper shipping name	AEROSOLS	
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable	
Packing group	Not Applicable	
Environmental hazard	Not Applicable	
Special precautions for user	Special provisions   63 190 277 327 344 381	

# Air transport (ICAO-IATA / DGR)

	•			
UN number	1950	1950		
UN proper shipping name	Aerosols, flammable	Aerosols, flammable		
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1  Not Applicable  10L		
Packing group	Not Applicable	Not Applicable		
Environmental hazard	Not Applicable			
Special precautions for	Special provisions  Cargo Only Packing Ir  Cargo Only Maximum	Qty / Pack	A145 A167 A802 203 150 kg	
user	Passenger and Cargo Packing Instructions		203	
	Passenger and Cargo Maximum Qty / Pack		75 kg	
	Passenger and Cargo	Limited Quantity Packing Instructions	Y203	
	Passenger and Cargo	Limited Maximum Qty / Pack	30 kg G	

# Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	IMDG Class 2.1  IMDG Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number         F-D, S-U           Special provisions         63 190 277 327 344 381 959           Limited Quantities         1000ml		

### Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### **SECTION 15 REGULATORY INFORMATION**

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

### ACETONE(67-64-1) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule  ${\bf 5}$ 

#### ETHYL ACETATE(141-78-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix B (Part 3)

### XYLENE(1330-20-7) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Hazardous chemicals which may require Health Monitoring

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Part 2, Section Seven - Appendix I

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 7

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

#### NAPHTHA PETROLEUM, HEAVY, HYDROTREATED(64742-48-9.) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

### N-BUTYL ACETATE(123-86-4) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

### ALUMINIUM(7429-90-5) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

#### N-BUTANOL(71-36-3) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Chemicals
Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix F (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

# DIMETHYL ETHER(115-10-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Exposure Standards

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix B (Part 3)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Appendix E (Part 2)

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5

# Atorn Bright Zinc 400ml

### **National Inventory Status**

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (n-butanol; acetone; xylene; ethyl acetate; n-butyl acetate; dimethyl ether; aluminium; naphtha petroleum, heavy, hydrotreated)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (aluminium; naphtha petroleum, heavy, hydrotreated)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Legend:	Yes = All ingredients are on the inventory No = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

### **SECTION 16 OTHER INFORMATION**

Revision Date	17/12/2018
Initial Date	01/11/2009

#### Other information

### Ingredients with multiple cas numbers

Name	CAS No
naphtha petroleum, heavy, hydrotreated	64742-48-9., 101795-02-2.
aluminium	7429-90-5, 91728-14-2
dimethyl ether	115-10-6, 157621-61-9

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

### **Definitions and abbreviations**

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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TEL (+61 3) 9572 4700.