

# SAFETY DATA SHEET

**BALLISTOL AEROSOL**

Infosafe No.: LPYN0  
Version No.: 1.0  
ISSUED Date: 13/11/2014  
ISSUED BY BONDALL PTY LTD

## 1. IDENTIFICATION

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**GHS Product Identifier**

BALLISTOL AEROSOL

**Product Code**

60010, 60011, 60012

**Company Name**

BONDALL PTY LTD (ABN 27 008 734 996)

**Address**

113 Belmont Avenue  
Belmont  
WA 6104 Australia

**Telephone/Fax Number**

Tel: (08) 6272 3800  
Fax: (08) 9277 4068

**Emergency phone number**

0400 705 773 or Poisons Information Centre: 13 11 26

**Recommended use of the chemical and restrictions on use**

As an oily lubricant and corrosion inhibitor. Protects against oxidative, galvanic, acidic and salt water corrosion.

## 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia  
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Flammable Aerosol: Category 1

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H222 Extremely flammable aerosol.

**Precautionary Statement (s)**

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children.

P103 Read label before use.

**Pictogram (s)**

Flame

**Precautionary statement – 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.

**Precautionary statement – Storage**

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

**Precautionary statement – Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

**Supplemental Information**

The information under this heading is not mandatory under WHS Regulations. It is provided as information on other GHS hazard classes and categories and/or environmental hazards that are outside the scope of the WHS Regulations.

GHS classification: Skin Corrosion/Irritation: Category 3. Hazard statement: H316. Precautionary statement: P332+P313

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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## Ingredients

Name	CAS	Proportion
Highly refined base oils	8042-47-5	>60 %
Butane	106-97-8	5-<15 %
Propane	74-98-6	5-15 %
Benzyl Alcohol	100-51-6	<10 %
C-5 Alcohols	Mixture	<10 %
Iso-hexane	107-83-5	<5 %
n-Hexane	110-54-3	<1 %
Ingredients determined not to be hazardous		Balance

## 4. FIRST-AID MEASURES

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### Inhalation

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.

### Ingestion

Unlikely due to form of product. However, if ingested, do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

### Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

### Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.

### First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

### Advice to Doctor

Treat symptomatically.

### Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

## 5. FIRE-FIGHTING MEASURES

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### Suitable Extinguishing Media

Carbon dioxide, dry chemical, foam, water spray or water mist.

### **Unsuitable Extinguishing Media**

Water jet.

### **Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

### **Specific Hazards Arising From The Chemical**

Contents under pressure - cans can explode in a fire or may become a projectile in a fire. This product is extremely flammable. Keep containers and fire-exposed surfaces cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard. May be sensitive to static discharge. Aerosols are sensitive to mechanical impact.

### **Hazchem Code**

2YE

### **Decomposition Temperature**

Not available

### **Precautions in connection with Fire**

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

## **6. ACCIDENTAL RELEASE MEASURES**

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### **Emergency Procedures**

Extinguish or remove all sources of ignition. Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unprotected personnel. Water spray or fog may be used to disperse/absorb vapour if any. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Place inert, non-combustible absorbent material onto liquid spillage. Collect residues and seal in labelled drums for disposal. If contamination of sewers or waterways occurs inform the local water authorities and waste management authorities in accordance with local regulations. Dispose of waste according to applicable local and national regulations.

## **7. HANDLING AND STORAGE**

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### **Precautions for Safe Handling**

EXTREMELY FLAMMABLE. VAPOUR OR GAS REDUCES OXYGEN FOR BREATHING. IN CONFINED SPACES MAY CAUSE ASPHYXIATION. Wear appropriate personal protective equipment and clothing to prevent exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. DO NOT store or use in confined spaces. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Build up of mists or vapours in the atmosphere must be prevented. Do NOT cut or heat containers as they may contain hazardous residues. Do not smoke. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

### **Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents, foodstuffs, clothing and out of direct sunlight. Protect container against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Do NOT pressurise, cut or heat aerosol containers. Content is under pressure and can explode violently. For information on the design of the storeroom, reference should be made to Australian Standard AS 2278-2000 Non-refillable metal aerosol dispensers of capacity 50 mL to 1000 mL inclusive. Reference should also be made to all Local, State and Federal regulations.

### **Storage Temperatures**

Do not expose to temperatures exceeding 40°C.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **Occupational exposure limit values**

No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

Safe Work, Australia Exposure Standards:

Butane

TWA: 800 ppm

TWA: 1900 mg/m<sup>3</sup>

Iso-hexane

TWA: 500 ppm

TWA: 1760 mg/m<sup>3</sup>

STEL: 1000 ppm

STEL: 3500 mg/m<sup>3</sup>

Butane

TWA: 20 ppm

TWA: 72 mg/m<sup>3</sup>

Refined mineral oil mist

TWA: 5 mg/m<sup>3</sup>

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

### **Biological Limit Values**

Name: n-hexane

Determinant: 2,5-Hexanedion without hydrolysis

Value: 0.4 mg/L

Specimen: urine

Sampling time: End of shift at end of work week.

Source: American Conference of Industrial Hygienists (ACGIH)

### **Appropriate Engineering Controls**

This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements. Refer to AS 2865 Australian Standard Safe working in a confined space, for further information concerning ventilation requirements.

### **Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### **Eye Protection**

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### **Hand Protection**

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

### **Body Protection**

Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

### **Other Information**

Propane and Butane are asphyxiant gases which when present in an atmosphere in high concentration, lead to reduction of oxygen concentration by displacement or dilution. It is not appropriate to recommend an exposure standard for an asphyxiant, rather it should be required that a sufficient oxygen concentration be maintained.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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### **Appearance**

Dark yellow, oily liquid in an aerosol pressure pack.

### **Colour**

Dark yellow

### **Odour**

Slightly sweet odour

### **Decomposition Temperature**

Not available

**Melting Point**

Not available

**Boiling Point**

128°C

**Solubility in Water**

Insoluble (emulsifies)

**Specific Gravity**

0.77

**pH**

8.5-9.5 (emulsified)

**Vapour Pressure**

5 hPa at 20°C; 7 bar inner pressure.

**Vapour Density (Air=1)**

>1

**Evaporation Rate**

<1 (n-Butyl acetate=1)

**Odour Threshold**

Not available

**Viscosity**

Not available

**Pour Point**

<-20°C

**Partition Coefficient: n-octanol/water**

Not available

**Flash Point**

-104°C (Closed cup) (for propellant)

**Flammability**

Extremely flammable aerosol

**Auto-Ignition Temperature**

400°C

**Flammable Limits - Lower**

2.2% (for propellant)

**Flammable Limits - Upper**

10.0% (for propellant)

## 10. STABILITY AND REACTIVITY

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### Reactivity

Reacts with incompatible materials.

### Chemical Stability

Stable under normal conditions of storage and handling.

### Conditions to Avoid

Heat, direct sunlight, flames and other sources of ignition.

### Incompatible materials

Strong oxidising agents

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

### Hazardous Polymerization

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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### Toxicology Information

The available toxicity data for material given below.

### Acute Toxicity - Oral

LD50(rat): >10,000 mg/kg

### Ingestion

Unlikely due to form of product.

### Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. Inhalation causes headache/nausea. Inhalation causes narcotic effect/intoxication.

### Skin

Causes mild skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

### Eye

May be irritating to eyes. The symptoms may include redness, itching and tearing.

### Respiratory sensitisation

Not expected to be a respiratory sensitiser.

### Skin Sensitisation

Not expected to be a skin sensitiser.



**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

Not considered to be a carcinogenic hazard.

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

Not expected to cause toxicity to a specific target organ.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

No ecological data available for this material.

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Other Adverse Effects**

Not available

**Environmental Protection**

Do not discharge this material into waterways, drains and sewers.

**13. DISPOSAL CONSIDERATIONS**

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**Disposal considerations**

Dispose of waste according to applicable local and national regulations. Do not pierce, burn, cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Empty the container completely before disposal. Contaminated containers must not be treated as household waste. Advise flammable nature

**14. TRANSPORT INFORMATION**

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**Transport Information**

#### Road and Rail Transport (ADG Code):

This material is classified as Dangerous Goods Division 2.1 - Flammable Gases according to the Australian Code for the Transport of Dangerous Goods by Road or Rail. ( 7th edition)

Division 2.1 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 2.2 Non-flammable, Non toxic gases that have a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.
- Class 3, Flammable Liquids, if both the Division 2.1 and Class 3 dangerous goods are in tanks or other receptacles with a capacity individually exceeding 500L.
- Division 4.1, Flammable Solids
- Division 4.2, Spontaneously Combustible Substances
- Division 4.3, Dangerous When Wet Substances
- Division 5.1, Oxidising substances
- Division 5.2, Organic Peroxides
- Class 7, Radioactive Substances

#### Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Proper Shipping Name: AEROSOLS

UN-No: 1950

Division: 2.1

EmS: F-D,S-U

Special Provisions: 63, 190, 277, 327, 344, 959

#### Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Proper Shipping Name: Aerosols,flammable

UN-No: 1950

Division: 2.1

Label: Flammable gas

Packaging Instructions (cargo only): 203

Packaging Instructions (passenger & cargo): 203

Special Provisions: A145, A167, A802

#### **U.N. Number**

1950

#### **UN proper shipping name**

AEROSOLS

#### **Transport hazard class(es)**

2.1

#### **Hazchem Code**

2YE

#### **EPG Number**

2D1

**IERG Number**

49

**IMDG Marine pollutant**

No

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**15. REGULATORY INFORMATION**

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**Regulatory information**

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP). (Exempted)

**Poisons Schedule**

Not Scheduled

**Australia (AICS)**

All components of this product are listed on the Inventory or exempted.

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**16. OTHER INFORMATION**

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**Date of preparation or last revision of SDS**

SDS Reviewed: November 2014; SDS Superseded: December 2009

**References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice  
Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH)

Globally Harmonised System of classification and labelling of chemicals.

**Contact Person/Point**

Chemist: Tel No: (08) 6272-3800

Emergency: Tel No: 0400 705 773

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**END OF SDS**

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