

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name BOSTIK TENSOL 70 PART B
Synonym(s) 620651, 620698 - PRODUCT CODE(S) • TENSOL 70 PART B

1.2 Uses and uses advised against

Use(s) INDUSTRIAL APPLICATIONS • TWO COMPONENT PACK

1.3 Details of the supplier of the safety data sheet

Supplier name KLX AEROSPACE SOLUTIONS PTY LIMITED (FORMERLY INTERTURBINE)
Address 17 Ashtan Pl, Banyo, QLD, Australia, 4014
Telephone (07) 3292 5200
Fax (07) 3292 5220
Email australia@interturbine.com
Website http://www.interturbine.com

1.4 Emergency telephone number(s)

Emergency (07) 3292 5200

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

GHS Classification(s) Flammable Liquids: Category 4
 Skin Corrosion/Irritation: Category 3
 Skin Sensitisation: Category 1
 Serious Eye Damage / Eye Irritation: Category 2B
 Respiratory Sensitisation: Category 1
 Toxic to Reproduction: Category 1B
 Aquatic Toxicity (Chronic): Category 1
 Repeated exposure may cause skin dryness or cracking

2.2 Label elements

Signal word DANGER

Pictograms

Hazard statement(s)

H227 Combustible liquid.
 H316 Causes mild skin irritation.
 H317 May cause an allergic skin reaction.
 H320 Causes eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H360 May damage fertility or the unborn child.
 H410 Very toxic to aquatic life with long lasting effects.
 AUH066 Repeated exposure may cause skin dryness or cracking

Prevention statement(s)

P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.

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- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection.

Response statement(s)

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P321 Specific treatment is advised - see first aid instructions.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use appropriate media for extinction.
- P391 Collect spillage.

Storage statement(s)

- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Disposal statement(s)

- P501 Dispose of contents/container in accordance with relevant regulations.

2.3 Other Hazards

No information provided.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

| Ingredient | CAS number | EC number | Content |
|----------------------|------------|-----------|---------|
| DIISOBUTYL PHTHALATE | 84-69-5 | 201-553-2 | >60% |
| BENZOYL PEROXIDE | 94-36-0 | 202-327-6 | 5 - 10% |

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Eye** If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
- Inhalation** If inhaled, remove from contaminated area. To protect rescuer, use a Type A (Organic vapour) respirator or an Air-line respirator (in poorly ventilated areas). Apply artificial respiration if not breathing.
- Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
- Ingestion** For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).
- First aid facilities** No information provided.

4.2 Most important symptoms and effects, both acute and delayed

No information provided.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

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5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Dry agent, carbon dioxide, foam or water fog. Prevent contamination of drains and waterways.

5.2 Special hazards arising from the substance or mixture

Combustible. May evolve toxic gases (benzoic acid, carbon oxides, benzene, biphenyls, phenyl benzoate and terphenyls) when heated to decomposition. Burns fiercely. Do not heat as this product may explode. May evolve nitrogen oxides when heated to decomposition.

5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

- 3Z
 - Alcohol Resistant Foam is the preferred firefighting medium. Else use;
 - 3 Normal Foam (protein based foam that is not alcohol resistant).
 - Z Wear full fire kit and breathing apparatus. Contain spill and run-off.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances, heat or ignition sources and foodstuffs. Contamination with incompatibles may cause fire or explosion. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use. May explode if exposed to heat or shock. Store as a Class C1 Combustible Liquid (AS1940).

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

| Substance | Reference | TWA | | STEL | |
|------------------|-----------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Benzoyl peroxide | SWA (AUS) | -- | 5 | -- | -- |

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Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

- Eye/Face** Wear splash-proof goggles.
- Hand** Wear PVA gloves.
- Body** Wear coveralls.
- Respiratory** Wear a Type A (Organic vapour) respirator. If spraying, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator or an Air-line respirator. If sanding dry product, wear a Class P1 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|----------------------------------|----------------------|
| Appearance | CLEAR YELLOW LIQUID |
| Odour | CHARACTERISTIC ODOUR |
| Odour Threshold | NOT AVAILABLE |
| pH | NOT AVAILABLE |
| Melting Point | NOT AVAILABLE |
| Boiling Point | NOT AVAILABLE |
| Flash Point | > 61°C |
| Evaporation Rate | NOT AVAILABLE |
| Flammability | CLASS C1 COMBUSTIBLE |
| Upper Explosion Limit | NOT AVAILABLE |
| Lower Explosion Limit | NOT AVAILABLE |
| Vapour Pressure | NOT AVAILABLE |
| Vapour Density | NOT AVAILABLE |
| Solubility (water) | NOT AVAILABLE |
| Partition Coefficient | NOT AVAILABLE |
| Autoignition Temperature | NOT AVAILABLE |
| Decomposition Temperature | NOT AVAILABLE |
| Viscosity | NOT AVAILABLE |
| Explosive Properties | NOT AVAILABLE |
| Oxidising Properties | NOT AVAILABLE |
| Specific Gravity | 1.04 |

9.2 Other information

No information provided.

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10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information in sections 10.2 to 10.6.

10.2 Chemical stability

Stable under recommended conditions of storage.

10.3 Possibility of hazardous reactions

Polymerization is not expected to occur.

10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible materials

Incompatible (may cause fires/ explosions) with heat, alcohols, metallic naphthenates, acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), amines, nitrates, methacrylates, combustible material, oxidising agents (e.g. hypochlorites) and reducing agents (e.g. sulphites),.

10.6 Hazardous decomposition products

May evolve toxic gases (benzoic acid, carbon oxides, benzene, biphenyls, phenyl benzoate and terphenyls) when heated to decomposition. May evolve nitrogen oxides when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

| | |
|------------------------------|--|
| Health hazard summary | Irritant. Use safe work practices to avoid eye or skin contact and inhalation. Over exposure may result in respiratory and skin sensitisation, and lung tissue damage. Benzoyl peroxide is not classifiable as to its carcinogenicity in humans (IARC Group 3). Possible risk of impaired fertility. May cause harm to the unborn child. |
| Eye | Irritant. Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact. |
| Inhalation | Irritant. Over exposure may result in irritation of the nose and throat, coughing and headache. Over exposure may result in decreased pulse and temperature, dyspnea and wheezing, abdominal pain, and stupor. |
| Skin | Irritant. Contact may result in irritation, redness, rash and dermatitis. May cause sensitisation by skin contact. |
| Ingestion | May be harmful. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea. |
| Toxicity data | <p>DIISOBUTYL PHTHALATE (84-69-5)</p> <p>LD50 (Ingestion): 13 g/kg (mouse)</p> <p>LD50 (Skin): 10 g/kg (guinea pig)</p> <p>TDLo (Ingestion): 8400 mg/kg (7Days) (rat-male)</p> <p>BENZOYL PEROXIDE (94-36-0)</p> <p>LD50 (Ingestion): 5700 mg/kg (mouse)</p> <p>LD50 (Intraperitoneal): 250 mg/kg (mouse)</p> <p>LD50 (Skin): > 1000 mg/kg (mammal)</p> <p>TDLo (Skin): 24000 mg/kg/30 weeks intermittently (mouse)</p> |

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12. ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Results of PBT and vPvB assessment

No information provided.

12.6 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Mix components together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer/supplier for additional information (if required). Prevent contamination of drains and waterways as environmental damage may result.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



| | Land Transport (ADG) | Sea Transport (IMDG/IMO) | Air Transport (IATA/ICAO) |
|--|---|-----------------------------|------------------------------|
| 14.1 UN number | 3082 | 3082 | 3082 |
| 14.2 UN proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains diisobutyl phthalate) | | |
| 14.3 Transport hazard classes | | | |
| DG Class | 9 | 9 | 9 |
| Subsidiary risk(s) | None Allocated | - | - |
| 14.4 Packing group | III | III | III |
| 14.5 Environmental hazards | | Marine Pollutant | |
| 14.6 Special precautions for user | | | |
| Hazchem Code | •3Z | | |
| EMS | | F-A,S-F | |

15. REGULATORY INFORMATION

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

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

| | | |
|-----------------------------|---|--|
| Product name | BOSTIK TENSOL 70 PART B | |
| | Uniform Scheduling of Medicines and Poisons (SUSMP). | |
| Classifications | Repr. - Reproductive toxin Xi - Irritant | |
| Risk phrases | R43: | May cause sensitisation by skin contact. |
| | R61: | May cause harm to the unborn child. |
| | R62: | Possible risk of impaired fertility. |
| Safety phrases | S3/7: | Keep container tightly closed in a cool place. |
| | S36/37/39: | Wear suitable protective clothing, gloves and eye/face protection. |
| | S45: | In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). |
| | S53: | Avoid exposure - obtain special instructions before use. |
| Inventory listing(s) | AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt. | |

15.2 Chemical safety assessment

No information provided.

16. OTHER INFORMATION

Additional information This product is used in conjunction with Tensol 70 Part A. Please refer to the appropriate SDS before use.

ORGANIC PEROXIDES: Fires involving organic peroxides can be intense and move rapidly due to product rapid decomposition with release of oxygen and may involve explosions. If spilt on combustible materials it may spontaneously ignite. A diluent is often added to organic peroxides to reduce shock sensitivity.

PHTHALATES: Used to make plastics flexible and commonly used in food packaging, have now been identified as the most abundant industrial contaminants in the environment. Two new studies have found that the most common phthalates are OESTROGEN RECEPTORS ACTIVATORS which have been linked to increased cancer and reproductive risks. New studies will determine if the body is able to deactivate these reagents.

SYNERGISM - ANTAGONISM: Ingredients in this product may act together to aggravate or reduce adverse effects. Accordingly the time weighted average concentration (TWA) provided for single ingredients should be considered as a guide only and all due care exercised when handling.

WELDING - SANDING - CUTTING DRIED OR CURED PRODUCT: If sanding, cutting or welding dried or cured product, adverse health effects may be avoided by the use of appropriate engineering controls and/or personal protective equipment. If welding, wear a Class P2 (Metal fume) respirator and depending on the nature of the surface being welded, additional protection (e.g. for organic vapours/acid gas) may also be required. A Class P1 (Particulate) respirator is recommended if dust is generated.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

Product name

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| | |
|-------------------|---|
| CAS # | Chemical Abstract Service number - used to uniquely identify chemical compounds |
| CNS | Central Nervous System |
| EC No. | EC No - European Community Number |
| EMS | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods) |
| GHS | Globally Harmonized System |
| GTEPG | Group Text Emergency Procedure Guide |
| IARC | International Agency for Research on Cancer |
| LC50 | Lethal Concentration, 50% / Median Lethal Concentration |
| LD50 | Lethal Dose, 50% / Median Lethal Dose |
| mg/m ³ | Milligrams per Cubic Metre |
| OEL | Occupational Exposure Limit |
| pH | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| ppm | Parts Per Million |
| STEL | Short-Term Exposure Limit |
| STOT-RE | Specific target organ toxicity (repeated exposure) |
| STOT-SE | Specific target organ toxicity (single exposure) |
| SUSMP | Standard for the Uniform Scheduling of Medicines and Poisons |
| SWA | Safe Work Australia |
| TLV | Threshold Limit Value |
| TWA | Time Weighted Average |

Report Status

This ChemAlert report has been independently compiled by RMT's scientific department utilising the original Safety Data Sheet ('SDS') for the product provided to RMT by the manufacturer. The information is based on the latest chemical and toxicological research and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. It is an independent collation by RMT of information obtained from the original SDS for this product. Its content has not been authorised or verified by the manufacturer / distributor of the chemical to which it relates.

This ChemAlert report does not constitute the manufacturer's original SDS and is not intended to be a replacement for same. It is provided to subscribers of ChemAlert as a reference tool only, is not all-inclusive and does not represent any guarantee as to the properties of the product. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this ChemAlert report, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this ChemAlert report.

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End of Report