

# Safety Data Sheet



## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** **BENOX L40LV**

**Recommended Use of the Chemical and Restrictions on Use** Catalyst. Industrial application.

**Supplier:** Ixom Operations Pty Ltd (Incorporated in Australia)  
**NZBN:** 9429041465226  
**Street Address:** 166 Totara Street  
Mt Maunganui South  
New Zealand

**Telephone Number:** +64 9 368 2700  
**Facsimile:** +64 9 368 2710  
**Emergency Telephone:** **0 800 734 607 (ALL HOURS)**

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

## 2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

**SIGNAL WORD:** WARNING

### Subclasses:

Subclass 5.2 Category F - Organic Peroxides.  
Subclass 6.4 Category A - Substances that are irritating to the eye.  
Subclass 6.5 Category B - Substances that are contact sensitisers.  
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment.

Organic Peroxides Group Standard 2006  
Approval Number: HSR002629



### Hazard Statement(s):

H242 Heating may cause a fire.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary Statement(s):

### Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P220 Keep/Store away from clothing/incompatible materials/combustible materials.  
P234 Keep only in original container.  
P260 Do not breathe mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
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.

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## 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.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see First Aid Measures on the Safety Data Sheet).

P363 Wash contaminated clothing before re-use.

P370+P378 In case of fire: Use extinguishing media as outlined in Section 5 of this Safety Data Sheet for extinction.

P391 Collect spillage.

## Storage:

P410 Protect from sunlight.

P411+P235 Store at temperature not exceeding 45°C. Keep cool.

P420 Store away from other materials.

## Disposal:

P501 In case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

| Components                 | CAS Number | Proportion | Hazard Codes   |
|----------------------------|------------|------------|----------------|
| Dibenzoyl peroxide         | 94-36-0    | 30-41%     | H241 H319 H317 |
| Zinc stearate              | 557-05-1   | 0-2%       | H410           |
| Non hazardous component(s) | -          | to 100%    | -              |

## 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

### Inhalation:

Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

### Skin Contact:

If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance.

### Eye Contact:

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

### Ingestion:

Rinse mouth with water. If swallowed, do NOT induce vomiting. Seek medical advice.

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

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

### Suitable Extinguishing Media:

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

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## Unsuitable Extinguishing Media:

Water jet.

**Hazchem or Emergency Action Code:** 2W

## Specific hazards arising from the substance or mixture:

May ignite if exposed to shock, friction, or heating. Burns fiercely when ignited. Containers involved in a fire can constitute an explosion risk if confined. Jetting of burning liquid and fireballs can also occur. Organic peroxides provide oxygen for combustion so simple smothering actions are not effective against established fires. Due to possibility of re-ignition, extinguished residues must be thoroughly cooled before approaching. May form flammable vapour mixtures with air.

## Special protective equipment and precautions for fire-fighters:

On burning will emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Fight fires only from a safe distance and with adequate cover. For large fires action may need to be limited to cooling adjacent exposures with water to prevent fire spreading. Explosion hazard for product under confinement, possibility of containers 'rocketing' and production of fireballs. Keep containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

### Emergency procedures/Environmental precautions:

Shut off all possible sources of ignition. Clear area of all unprotected personnel. Do not allow container or product to get into drains, sewers, streams or ponds. If contamination of sewers or waterways has occurred advise local emergency services.

### Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid skin and eye contact and breathing in vapour, mists and aerosols. Use away from sources of heat and ignition. Avoid contamination with other materials. Do not return unused product to original container. Keep out of reach of children. Take precautionary measures against static discharges. Ground all equipment containing material.

**Conditions for safe storage, including any incompatibilities:** Store in a cool, dry, well ventilated place. Store below 45°C. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Store away from foodstuffs. Do not allow material to dry out. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Workplace Exposure Standards:** No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Benzoyl peroxide: WES-TWA 5 mg/m<sup>3</sup>

Stearates: WES-TWA 10 mg/m<sup>3</sup>

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As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

## Appropriate engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

## Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, CHEMICAL GOGGLES, GLOVES, RESPIRATOR.



Wear overalls, chemical goggles and impervious gloves. Use with adequate ventilation. If determined by a risk assessment an inhalation risk exists, wear an organic vapour/particulate respirator or an air supplied mask meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |                                 |
|---|---------------------------------|
| <b>Physical state:</b>                  | Paste                           |
| <b>Colour:</b>                          | White                           |
| <b>Odour:</b>                           | Slight Ester-like               |
| <b>Solubility:</b>                      | Negligible solubility in water. |
| <b>Specific Gravity:</b>                | 1.2 @25°C                       |
| <b>Relative Vapour Density (air=1):</b> | Not available                   |
| <b>Vapour Pressure (20 °C):</b>         | Not available                   |
| <b>Flash Point (°C):</b>                | Not applicable                  |
| <b>Flammability Limits (%):</b>         | Not available                   |
| <b>Autoignition Temperature (°C):</b>   | Not available                   |
| <b>Boiling Point/Range (°C):</b>        | Decomposes                      |
| <b>Decomposition Point (°C):</b>        | 103 (SADT = 50°C)               |
| <b>pH:</b>                              | Not available                   |

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## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Reactivity:</b>                         | Reacts violently with acids, alcohols, amines.   |
| <b>Chemical stability:</b>                 | Unstable at elevated temperatures. Contact with incompatible substances can cause decomposition at or below the Self accelerating decomposition temperature (SADT) 50°C.   |
| <b>Possibility of hazardous reactions:</b> | Heating can cause expansion or decomposition of the material, which can lead to the containers exploding. Hazardous polymerisation will not occur.   |
| <b>Conditions to avoid:</b>                | Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to shock, friction, fire and other sources of ignition. Do not allow product to dry out. Avoid contamination with foreign materials. |
| <b>Incompatible materials:</b>             | Incompatible with strong acids , bases , amines , transition metals and their salts , strong oxidising agents , reducing agents , promoters , accelerators , combustible materials .                             |
| <b>Hazardous decomposition products:</b>   | Carbon monoxide. Carbon dioxide.   |

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

|                         |  |
|-------------------------|--|
| <b>Ingestion:</b>       | Swallowing may result in irritation of the gastrointestinal tract. If ingested, decomposition may occur in the stomach, leading to the production of oxygen. This may cause distension of the stomach. |
| <b>Eye contact:</b>     | An eye irritant.   |
| <b>Skin contact:</b>    | Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.   |
| <b>Inhalation:</b>      | Breathing in mists or aerosols may produce respiratory irritation.   |
| <b>Acute toxicity:</b>  | No LD50 data available for the product.  |
| <b>Chronic effects:</b> | Repeated or prolonged skin contact may cause dryness and dermatitis.   |

## 12. ECOLOGICAL INFORMATION

|                          |   |
|--------------------------|---|
| <b>Ecotoxicity</b>       | Avoid contaminating waterways.  |
| <b>Aquatic toxicity:</b> | Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment. |

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to local government authority for disposal recommendations. Dispose of contents/container in accordance with local/regional/national/international regulations. Normally suitable for incineration by an approved agent.

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## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.



**UN No:** 3109  
**Transport Hazard Class:** 5.2 Organic Peroxide  
**Packing Group:** II  
**Proper Shipping Name or Technical Name:** ORGANIC PEROXIDE TYPE F, LIQUID (CONTAINS BENZOYL PEROXIDE)  
**Hazchem or Emergency Action Code:** 2W

### Marine Transport

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

**UN No:** 3109  
**Transport Hazard Class:** 5.2 Organic Peroxide  
**Packing Group:** II  
**Proper Shipping Name or Technical Name:** ORGANIC PEROXIDE TYPE F, LIQUID (CONTAINS BENZOYL PEROXIDE)  
**IMDG EMS Fire:** F-J  
**IMDG EMS Spill:** S-R

### Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS. TRANSPORT PROHIBITED under the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air in Passenger and Cargo Aircraft; may be transported by Cargo Aircraft Only.

**UN No:** 3109  
**Transport Hazard Class:** 5.2 Organic Peroxide  
**Packing Group:** II  
**Proper Shipping Name or Technical Name:** ORGANIC PEROXIDE TYPE F, LIQUID (CONTAINS BENZOYL PEROXIDE)

## 15. REGULATORY INFORMATION

### Classification:

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

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**Subclasses:**

Subclass 5.2 Category F - Organic Peroxides.

Subclass 6.4 Category A - Substances that are irritating to the eye.

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**Hazard Statement(s):**

H242 Heating may cause a fire.

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H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

## 16. OTHER INFORMATION

Supplier Safety Data Sheet; 03/ 2012.

This safety data sheet has been prepared by Ixom Operations Pty Ltd Toxicology & SDS Services.

**Reason(s) for Issue:**

First Issue Primary SDS

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Ixom representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.