

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** CARBOFILL (COMPONENT A)

**Other name(s):** Carbofill Plus

**Recommended Use of the Chemical and Restrictions on Use** Mixed with Carbofill (Component B) to form phenolic foam.

**Supplier:** Orica Australia Pty Ltd trading as Minova Australia  
**ABN:** 99 004 117 828  
**Street Address:** George Booth Drive,  
Kurri Kurri, NSW 2327  
Australia

**Telephone Number:** 1300 MINOVA (1300 646 682)  
**Facsimile:** 1300 FAXMINOVA (1300 329 646)  
**Website:** www.minovaglobal.com

**Emergency Telephone:** 1800 033 111 (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

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### Classification of the chemical:

Acute Oral Toxicity - Category 4  
Skin Corrosion - Sub-category 1B  
Skin Sensitisation - Category 1  
Eye Damage - Category 1  
Mutagenicity - Category 2

**SIGNAL WORD:** DANGER



### Hazard Statement(s):

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H341 Suspected of causing genetic defects.

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## Precautionary Statement(s):

### Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist, vapours, spray.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves, protective clothing, eye and face protection.  
P281 Use personal protective equipment as required.

### Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P304+P340 IF INHALED: Remove person to fresh air and keep 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.  
P310 Immediately call a POISON CENTER or doctor/physician.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see First Aid Measures on Safety Data Sheet).  
P363 Wash contaminated clothing before re-use.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

**Poisons Schedule (SUSMP):** S6 Poison.

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Hazard Codes
Phenol	108-95-2	<5%	H301 H311 H331 H314 H341 H373
Ethylene glycol	107-21-1	<5%	H302 H373
Ingredients determined not to be hazardous	-	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. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

### Skin Contact:

If on skin, immerse promptly in a deluge shower and simultaneously remove or cut away all contaminated clothing. As soon as possible, wash skin with PEG (polyethylene glycol) 400 and keep dabbing the exposed skin with gauze or cloth soaked PEG 400. Keep replacing the swab or cloth as it becomes contaminated, and continue applying PEG 400 until there is no detectable odour. Flush with running water until advised to stop by the Poisons Information Centre or a doctor.

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Substance No: 000000052064

Issued: 12/04/2019  
Version: 6

**Eye Contact:**

Immediately wash in and around the eye area with large amounts of water for at least 15 minutes. Eyelids to be held apart. Remove clothing if contaminated and wash skin. Urgently seek medical assistance. Transport promptly to hospital or medical centre. Do NOT use PEG (polyethylene glycol) 400 in the eye.

**Ingestion:**

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

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

Treat symptomatically. Effects may be delayed.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

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

**Unsuitable Extinguishing Media:**

Water jet.

**Specific hazards arising from the chemical:**

Not combustible, however following evaporation of the water component of the material, the residual material can burn if ignited. On burning will emit toxic fumes, including those of oxides of carbon and oxides of nitrogen.

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

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion. Keep containers cool with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures/Environmental precautions:**

Clear area of all unprotected personnel. 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 and breathing in vapours. Work up wind or increase ventilation. 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

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

**Precautions for safe handling:**

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

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

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from foodstuffs. Store between 10°C and 20°C. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters:** No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Phenol: 8hr TWA = 4 mg/m<sup>3</sup> (1 ppm), Sk

Ethylene glycol (vapour): 8hr TWA = 52 mg/m<sup>3</sup> (20 ppm), 15 min STEL = 104 mg/m<sup>3</sup> (40 ppm), Sk

Ethylene glycol (particulate): 8hr TWA = 10 mg/m<sup>3</sup>, Sk

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

STEL (Short Term Exposure Limit) - the airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes, which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

'Sk' (skin) Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

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.



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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>	Liquid
<b>Colour:</b>	Red / Pink
<b>Odour:</b>	Characteristic
<b>Solubility:</b>	Partially miscible with water.
<b>Specific Gravity:</b>	1.33
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	Not available
<b>Flash Point (°C):</b>	Not applicable
<b>Flammability Limits (%):</b>	Not applicable
<b>Autoignition Temperature (°C):</b>	Not applicable
<b>% Volatile by Weight:</b>	Not available
<b>Solubility in water (g/L):</b>	Partially miscible
<b>Boiling Point/Range (°C):</b>	>100
<b>Decomposition Point (°C):</b>	Not available
<b>pH:</b>	8-9
<b>Viscosity:</b>	250 mPas @ 20°C
<b>Evaporation Rate:</b>	Not available

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Reacts exothermically with acids.
<b>Chemical stability:</b>	Stable under normal conditions of use.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerisation will not occur.
<b>Conditions to avoid:</b>	Avoid exposure to heat, sources of ignition, and open flame. Avoid contact with foodstuffs.
<b>Incompatible materials:</b>	Incompatible with acids, bases and oxidising agents.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of nitrogen.

## 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 can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs.
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**Eye contact:** A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

**Skin contact:** Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. Component/s of this material can be absorbed through the skin with resultant toxic effects. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Inhalation:** May cause coughing, sore throat, headache, dizziness, drowsiness and possible nausea. Inhalation of high concentrations of vapour may cause lung irritation with coughing and nausea, central nervous system depression with headache, dizziness, slowing of reflexes, fatigue and incoordination.

**Acute toxicity:** No LD50 data available for the product. However, for constituent(s) (1):  
Oral LD50 (rat): 340 mg/kg (Phenol); 4,700 mg/kg (Monoethylene glycol)  
Dermal LD50 (rat): 660 mg/kg (Phenol)  
Dermal LD50 (rabbit): 9,530 mg/kg (Monoethylene glycol)  
Inhalation LC50 (rat): 900 mg/dm<sup>3</sup>/8H (Phenol); 10,876 mg/m<sup>3</sup> (Monoethylene glycol)

**Skin corrosion/irritation:** Corrosive.  
**Serious eye damage/irritation:** Corrosive.  
**Respiratory or skin sensitisation:** A skin sensitiser.

**Chronic effects:** No information available for the product.

**Mutagenicity:** Suspected of causing genetic defects.  
**Carcinogenicity:** Not classified.  
**Reproductive toxicity:** Not classified.  
**Specific Target Organ Toxicity (STOT) - single exposure:** Not classified.  
**Specific Target Organ Toxicity (STOT) - repeated exposure:** Not classified.  
**Aspiration hazard:** Not classified.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Avoid contaminating waterways.

**Persistence/degradability:** For phenol: The material is readily biodegradable. Degree of Elimination: >70% (14 days) (1)  
For ethylene glycol: Degree of Elimination: 90-100% (10 days) (1)

**Bioaccumulative potential:** For phenol: This product shows a low bioaccumulation potential. Bioconcentration Factor (BCF): 17.5 (1)  
For ethylene glycol: Not expected to bioaccumulate. (1)

**Mobility in soil:** For phenol: Koc = 82.8 L/kg (1)

**Aquatic toxicity:** For phenol: (1)  
96hr LC50 (Pseudokirchneriella subcapitata): 61.1 mg/L  
48hr LC50 (Ceriodaphnia dubia): 3.1 mg/L

48hr EC50 (Daphnia magna): For ethylene glycol: 13,900 - 57,600 mg/L (1)  
96hr LC50 (rainbow trout): For phenol: 8.9 mg/L (1)

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96hr LC50 (fathead minnow): For ethylene glycol: 72,860 mg/L (1)  
96hr EC50 (algae): For ethylene glycol: 6,500 - 13,000 mg/L (pseudokirchneriella subcapitata) (1)

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods:

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national, international regulations.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

## 15. REGULATORY INFORMATION

### Classification:

This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL.

### Classification of the chemical:

Acute Oral Toxicity - Category 4  
Skin Corrosion - Sub-category 1B  
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H341 Suspected of causing genetic defects.

**Poisons Schedule (SUSMP):** S6 Poison.

## 16. OTHER INFORMATION

(1) Supplier Safety Data Sheet; 03/ 2015.

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

# Safety Data Sheet



**Reason(s) for Issue:**

Revised Primary SDS  
Minor Text Changes

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 The Supplier 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 Supplier representative or The Supplier at the contact details on page 1.

The Supplier's responsibility for the material as shipped is subject to the terms and conditions of sale, a copy of which is available upon request.