

MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: MASTERKURE 404

Other Name: None allocated

Recommended Use: Water-based acrylic curing compound for concrete.

Company: BASF Construction Chemicals Australia Pty. Ltd. ABN 46 000 450 288
BASF New Zealand Ltd.

Address: 11 Stanton Road, Seven Hills, NSW, 2147 Australia
45 William Pickering Drive, Albany, Auckland, New Zealand

Telephone Number: +61 2 8811 9624 4200 +64 9 414 7233

Facsimile: +61 2 8811 9624 3299 +64 9 414 7244

Emergency Telephone Number: 0417 658 263

2. HAZARDS IDENTIFICATION

Hazard Classification: NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.
Non Dangerous Goods for transport according to the ADG code.
Non Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and NOHSC.

Hazard Designation: None

HSNO Classification: None

Risk Phrase(s): None

Safety Phrase(s): None

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Ammonia	7664-41-7	< 10%
Mixed acrylics	80-62-6	< 10%
Non-hazardous ingredients		to 100%

4. FIRST AID MEASURES

Inhalation: Use in well ventilated areas. If inhalation occurs, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention

Eyes: While holding eyes open, gently flood with plenty of fresh water for 15 minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin: Remove contaminated clothing. Wash contacted areas thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before re-use.

Ingestion: Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

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5. FIRE FIGHTING MEASURES

<u>Suitable extinguishing media:</u>	Use extinguishing agent suitable for type of surrounding fire e.g. Water Spray or Fog, Foam, Carbon dioxide (CO ₂) and Dry Chemical
<u>Hazards from combustion products:</u>	Decomposes on heating and may produce toxic fumes of carbon monoxide. May emit acrid smoke. Heat may cause expansion or decomposition with violent rupture of containers.
<u>Precautions/equipment for fire fighters:</u>	As for surrounding fire. Breathing apparatus should be worn if product is decomposing under fire conditions. Cool fire exposed containers with water spray. Prevent by any means available, spillage from entering drains or waterways.
<u>Hazchem code:</u>	None allocated.

6. ACCIDENTAL RELEASE MEASURES

<u>Methods and materials for containment and clean up:</u>	<p>Avoid breathing vapours and contact with skin and eyes. Wear personal protective equipment (PPE) as per Section 8.</p> <p><u>Small Spills</u> should be contained by absorbing with dry inert filler (vermiculite, sand or soil), which can then be shovelled into appropriately labelled drums. Disposal should be effected by an approved waste disposal organisation according to local regulations.</p> <p><u>Large Spills</u> should be prevented from spreading by bunding with suitable material such as sand or soil. Bulk liquid should be collected and removed mechanically where possible. Remainder can be contained by absorbing with dry inert filler (vermiculite, sand or soil), which can then be shovelled into appropriately labelled drums. Area can be flushed down with water which must also be contained and removed. Do not allow wash water to enter drains or waterways. Disposal should be effected by an approved waste disposal organisation according to local regulations.</p>
<u>Environmental precautions:</u>	Do not allow to enter into drains, sewers or waterways.

7. HANDLING AND STORAGE

<u>Precautions for safe handling:</u>	Wear personal protective equipment (PPE) as per Section 8. Provide for good ventilation. Avoid inhalation of mist. Avoid skin contact.
<u>Conditions for safe storage:</u>	Keep containers tightly closed. Store in original containers under cool dry conditions. Keep out of reach of children. Do not allow to freeze. If product must be transferred to an alternative container DO NOT USE unlined steel, mild steel or galvanised containers. Plastics materials or lined metal are suitable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Ventilation:</u>	Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particles below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn.
<u>Personal Protective Equipment (PPE):</u>	
<u>Respiratory protection:</u>	Dependent on conditions. Not normally required for small jobs or where there is adequate ventilation. If required (eg confined conditions, spraying) consult a Respiratory Protection specialist.
<u>Glove type (AS2161):</u>	Impervious gloves e.g. PVC or nitrile rubber gauntlets.
<u>Eye protection:</u>	Chemical worker's goggles, well fitting safety glasses or full face shield.
<u>Clothing:</u>	No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution, especially where heavy contamination is likely.

MATERIAL SAFETY DATA SHEET

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Other: Use barrier creams to protect skin from contact with the material. Do not eat drink or smoke while working with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Milky white liquid
<u>Odour:</u>	Slightly fruity odour
<u>pH:</u>	8.0 – 10.0
<u>Explosion Limit:</u>	Not applicable
<u>Solubility in water:</u>	Miscible
<u>Specific gravity:</u>	1.0 – 1.1
<u>Melting point:</u>	Not applicable
<u>Boiling Point:</u>	100°C approx.
<u>Flash point:</u>	Not applicable
<u>Evaporation Rate:</u>	As for water.

10. STABILITY AND REACTIVITY

<u>Chemical stability:</u>	Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to mechanical impact. Hazardous polymerisation will not occur.
<u>Incompatible materials:</u>	Strong Acids, Alkalis and Oxidisers.
<u>Hazardous decomposition products:</u>	May evolve toxic gases if heated to decomposition. Oxides of carbon and nitrogen and styrene vapour
<u>Hazardous reactions:</u>	None known.

11. TOXICOLOGICAL INFORMATION

<u>Health Hazard Summary:</u>	Principal routes of exposure are usually by skin contact and inhalation of vapour, spray or mist. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. As with any chemical product, skin contact, inhalation or ingestion in any form should be avoided by observing good occupational work practice. Not a carcinogen, mutagen or teratogen. There have been no reports in the literature of health effects in workers arising from long-term exposure to this material and no comprehensive human studies have been conducted.
<u>Inhalation:</u>	Inhalation of vapour is more likely at higher than normal temperatures. The vapour/mist is discomforting to the upper respiratory tract and may cause in some cases, sensitisation. Content of ammonia is low and is not considered a health hazard under good working conditions, however continuous long term working in confined and poorly ventilated areas may cause irritation response, sore eyes/nose.
<u>Eyes:</u>	The liquid is discomforting to the eyes and is capable of causing a mild, temporary redness of the conjunctiva (similar to wind-burn), temporary impairment of vision and/or other transient eye damage/ulceration. May cause damage to eye on prolonged exposure.
<u>Skin contact:</u>	The liquid is mildly discomforting to the skin and is capable of causing skin reactions which may lead to dermatitis from repeated exposures over long periods.
<u>Ingestion:</u>	Considered an unlikely route of entry in commercial/industrial environments. No adverse effects expected, however large amounts may coagulate and block intestinal tract

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12. ECOLOGICAL INFORMATION

Ecology: Not available for the finished liquid. Data provided is for individual raw constituents only.

Ammonium Hydroxide: Fish LC50 (96hr): 8.2 mg/l

In air, ammonia is persistent whilst in water, it biodegrades rapidly to nitrate, producing a high oxygen demand. Ammonia is non-persistent in water (half-life 2 days) and is moderately toxic to fish under normal temperature and pH conditions. Ammonia is harmful to aquatic life at low concentrations but does not concentrate in the food chain.

Do not discharge into drains, sewers or waterways.

Degradability not determined

13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Ensure containers are sealed. Avoid mist generation. Dispose of to an approved land fill site. Refer to the local Waste Management Authority.

Special precautions for landfill/incineration: None known

14. TRANSPORT INFORMATION

UN Number: None allocated

UN Proper Shipping Name: Not regulated

Dangerous Goods Class: None allocated

Subsidiary Risk: None allocated

EPG Card: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

15. REGULATORY INFORMATION

NICNAS / AICS: All components are listed

Poisons Schedule: Not Scheduled

HSNO Classifications: Not required

ERMA Group Standard: Not required

ERMA / NZIoC: All components are listed

Tracking: Not required

Approved Handler: Not required

16. OTHER INFORMATION

Reason for issue: Update to combined Australia and New Zealand MSDS.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.