BASF
The Chemical Company

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	**SONOSHIELD PRIMER 772**
Other name:	None allocated
Product code:	2070400029001_
Recommended Use:	One-component solvent-based urethane primer for Sonoguard system.
Company:	BASF Construction Chemicals Australia Pty Ltd.
ABN:	46 000 450 288
Address:	11 Stanton Road, Seven Hills, NSW, 2147, Australia
Telephone number:	+61 2 8811 4200
Facsimile:	+61 2 8811 3299
Company:	BASF Construction Chemicals New Zealand Ltd.
Address:	45 William Pickering Drive, Albany, Auckland, New Zealand
Telephone number:	+64 9 414 7233
Facsimile:	+64 9 414 7244
Emergency telephone number:	0417 658 263

2. HAZARDS IDENTIFICATION

Hazard classification:	Hazardous according to criteria of NOHSC	
Hazard designation:	Xi	- Irritant
Risk phrase(s):	R 20	- Harmful by inhalation
	R 36/37/38	- Irritating to eyes, respiratory system and skin.
	R 43	- May cause sensitisation by skin contact
	R 67	- Vapours may cause drowsiness and dizziness
Safety phrase(s):	S 16	- Keep away from sources of ignition
	S 36/37/39	- Wear suitable protective clothing, gloves and eye/face protection
	S 51	- Use only in well-ventilated areas

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
Polymethylene polyphenyl isocyanate	Not established	No data	Not established	Not established
Xylene	Not classifiable as a human carcinogen	Classification not possible from current data	Not established	Not established
Methylene bisphenyl diisocyanate	Not established	No data	Not established	Not established
Methyl ethyl ketone	Not established	Not established	Not established	Not established
Diphenylmethane diisocyanate	Not established	Not established	Not established	Not established
Ethyl benzene	Confirmed animal carcinogen with unknown relevance to humans	Inadequate data	Not established	Not established

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3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS

Chemical Name	CAS Number	Proportion
Polymethylene polyphenol isocyanate	9016-87-9	10 - < 30%
Xylene	1330-20-7	10 - < 30%
Methylene bisphenyl diisocyanate	101-68-8	10 -< 30%
Methyl ethyl ketone	78-93-3	10 -< 30%
Diphenylmethane diisocyanate	26447-40-5	< 10%
Ethyl benzene	100-41-4	< 10%

4. FIRST AID MEASURES

Eyes: Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.

Skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.

Inhalation: Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek immediate medical attention.

Ingestion: Do NOT induce vomiting without medical advice. If conscious, drink plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician. If a person vomits, place him/her in the recovery position. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Foam, water fog, CO_2 and dry chemical.

Hazards from combustion products: Fire may produce irritating or poisonous fumes. Flammable liquid. Can release vapours that form explosive mixtures at temperatures at or above the flashpoint. Vapours can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapour) and can be dangerous. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; CONTAINERS MAY EXPLODE AND CAUSE INJURY OR DEATH. Heating can release vapours, which may be ignited. Solid stream of water or foam can cause frothing.

Precautions and equipment for fire fighters: Can be ignited by heat, spark or flame. At higher temperature pressure build up in sealed containers. Use water to cool containers exposed to fire. As in any fire, wear self-contained breathing apparatus pressure demand (MSHA/NIOSH approved or equivalent) and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

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6. ACCIDENTAL RELEASE MEASURES

Methods for clean up / collecting: Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Take action to eliminate source of leak. Large spills should be handled carefully. Put on respiratory protection and necessary personal protective equipment. Dike or impound spilled liquid. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Use only in area provided with appropriate ventilation. Take precautionary measures against static discharges. Ground and bound containers when transferring material. For personal protection see section 8.

Storage: Store in dry, well-ventilated place away from sources of heat, ignition and direct sunlight. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards:

Chemical Name	CAS Number	TLV	STEL	PEL	CEIL
Polymethylene polyphenol isocyanate	9016-87-9	N.E.		N.E.	N.E.
Xylene	1330-20-7	100ppm		150ppm	100ppm
Methylene bisphenyl diisocyanate	101-68-8	0.005ppm		N.E.	N.E.
0.02ppm					
Methyl ethyl ketone	78-93-3	200ppm		300ppm	200ppm
Diphenylmethane diisocyanate	26447-40-5	N.E.		N.E.	N.E.
Ethyl benzene	100-41-4	100ppm		125ppm	100ppm

Engineering controls: Local exhaust ventilation can be necessary to control any air contaminants to within their TLV's during the use of this product.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Glove type (AS2161): Long PVC or nitrile rubber gauntlets

Eye protection: Safety glasses with side-shields or face shield.

Clothing: Chemically resistant clothes.

Other: Avoid contact with skin, eyes and clothing. Ensure adequate ventilation, especially in confined areas. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Amber coloured liquid with solvent odour.

Boiling point (°C): 79.44 – 202.22

Vapour pressure @ 25°(kPa): Not available

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Specific gravity:	1.04
Flash point (°C):	2.78
Flammability limits (%):	UEL – 11.5
	LEL – 1.0
Solubility in water:	Slightly soluble
Evaporation rate:	Faster than butyl acetate
VOC Concentration as applied: (less water and exempt solvents)	335 g/L

10. STABILITY AND REACTIVITY

Hazard of use/storage:	Stable under normal storage and application temperature.
Conditions to avoid:	Heat, flames and sparks. Direct sources of heat. Strong sunlight for prolonged periods. Prolonged exposure to high temperatures.
Materials to avoid:	Oxidising agents.
Hazardous decomposition products:	Oxides of carbon.
Hazardous polymerisation:	Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute inhalation toxicity

Product	Type	Value	Species	Exposure time
	LC50	No data available		
Component				
Polymethylene polyphenol isocyanate	LC50	No data available		
Xylene	LC50	No data available		
Methylene bisphenyl diisocyanate		LC50	No data available	
Methyl ethyl ketone	LC50	No data available		
Diphenylmethane diisocyanate	LC50	No data available		
Ethyl benzene	LC50	No data available		

Acute oral toxicity

Product	Type	Value	Species
	LD50 (Oral)	No data available	
Component			
Polymethylene polyphenol isocyanate	LD50 (Oral)	No data available	
Xylene	LD50 (Oral)	4300 mg/kg	rat
Methylene bisphenyl diisocyanate		LD50 (Oral)	9200 mg/kg
Methyl ethyl ketone	LD50 (Oral)	No data available	
Diphenylmethane diisocyanate	LD50 (Oral)	No data available	
Ethyl benzene	LD50 (Oral)	No data available	

Acute dermal toxicity

Product	Type	Value	Species
	LD50 (Dermal)	No data available	
Component			
Polymethylene polyphenol isocyanate	LD50 (Dermal)	No data available	
Xylene	LD50 (Dermal)	1700 mg/kg	rabbit
Methylene bisphenyl diisocyanate		LD50 (Dermal)	No data available
Methyl ethyl ketone	LD50 (Dermal)	6480 mg/kg	rabbit
Diphenylmethane diisocyanate	LD50 (Dermal)	No data available	

Ethyl benzene LD50 (Dermal) No data available

Effects of overexposure

Inhalation: Can cause severe respiratory irritation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Prolonged inhalation can be harmful.

Skin: Prolonged skin contact may defat the skin and produce dermatitis. Prolonged or repeated exposure can cause skin irritation and redness. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. May cause sensitisation by skin contact.

Eyes: Can cause moderate to severe irritation, redness, tearing and blurred vision.

Ingestion: Irritating to mouth, throat and stomach. Intake can cause gastrointestinal irritation, nausea and vomiting.

Chronic exposure: Existing respiratory or skin ailments may be aggravated by exposure. This product contains solvents. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse by deliberately inhaling the vapours and/or the product contents (a process often called “sniffing”) can be harmful or fatal. This product contains isocyanates. Prolonged repeated exposure to isocyanates can lead to skin sensitisation. For persons do sensitised even brief exposures to an isocyanate can produce reddening, swelling, rash or blisters. Similarly, prolonged and repeated exposure to isocyanates can lead to respiratory sensitisation. In such individuals, brief exposures to isocyanates at levels well below established exposure limits can produce chemical asthma and non-specific asthmatic conditions. Chronic overexposure to xylene can cause damage to the formed elements of blood [e.g. red cells, which carry oxygen]. This product contains Ethylbenzene. The International Agency for research on Cancer has evaluated Ethylbenzene and has classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.

12. ECOLOGICAL INFORMATION

Ecotoxicological information: There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

Recommendations: Use excess product in an alternate beneficial application. Handle disposal or waste material in a manner, which complies with local, state, province and federal regulation.

14. TRANSPORT INFORMATION

UN number:	1263
Dangerous goods class:	3
Subsidiary risk:	None allocated
EPG card:	3C1
Shipping name:	PAINT
Packing group:	II
Poisons schedule:	6
Hazchem code:	3[Y] E

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15. REGULATORY INFORMATION

Hazard designation:	Xi	- Irritant
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16. OTHER INFORMATION

Reason for Issue: Change of company name.

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.