

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name:	MEGACS PART A
Manufacturers Name:	MANTEK AUSTRALIA
Product Code:	5750
Recommended Use:	Epoxy Metal Bonding Compound
Manufacturer Address:	5-9, Ralph Street, Alexandria , NSW -2015
Telephone Number (Office Hours):	(02) 9669 0261
Fax Number:	(02) 9693 1562
Emergency Telephone Number:	040171897

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview	
Warning may cause	Allergic skin reaction Eye irritation Skin irritation Respiratory tract irritation
May be harmful if	Swallowed
Keep out of reach of children	

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Aluminium oxide	1344-28-1	30-60
Iron	7439-89-6	30-60
Bisphenol A - Epichlorohydrin polymer	25068-38-6	10-30
Magnesium oxide fume	1309-48-4	<5
Silicon dioxide - hydrated	763 1-86-9	<5
2-Ethylhexyl glycidyl ether	2461-15-6	<5
Phenyl glycidyl ether	122-60-1	<1

Potential Health Effects	
Colour	Dark gray
Physical State	Paste
Odour	Epoxy
Principle Route of Exposure	Eye contact, Ingestion, Inhalation, Skin contact.
Acute Effects	
Eyes	Moderately irritating to the eyes. Causes irritation seen as stinging, tearing, and redness .
Skin	May cause allergic skin reaction.
Inhalation	Moderate respiratory irritant.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea .
Chronic Effects	Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure.
Target Organ Effects	Respiratory system, Blood.
Aggravated Medical Conditions	Allergies. Skin disorders. Respiratory system.
Potential Environmental Effects	See Section 12 for additional Ecological information

SECTION 4 – FIRST AID MEASURES

General Advice	Immediate medical attention is not required. If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Do not induce vomiting. Rinse mouth. Drink plenty of water. Get medical attention if symptoms occur.
Notes to Physician	Treat symptomatically

SECTION 5 – FIRE-FIGHTING MEASURES

Flash Point	121°C
Method	Tag closed cup
Auto ignition Temperature	No information available
Suitable Extinguishing Media	Water. Foam. Dry chemical. Carbon dioxide (CO2).
Specific Hazards Arising from the Chemical	Thermal decomposition can lead to release of irritating gases and vapours. In the event of fire and/or explosion do not breathe fumes.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Avoid contact with the skin and the eyes.
Environmental Precautions	Prevent product from contaminating soil or from entering sewage, drainage systems, and bodies of water do not flush into surface water or sanitary sewer system.
Methods for Containment	Flush into sewer with plenty of water
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water. Prevent product from entering drains.

SECTION 7 – HANDLING AND STORAGE

Handling	Ensure adequate ventilation. Wear personal protective equipment.
Storage	Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place.
Storage Temperature	Minimum 0°C Maximum 27°C
Storage Conditions	Indoor X Outdoor Heated Refrigerated

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	TWA (Time Weighted Average):Aluminum Oxide 10mg/m3,Magnesium Oxide fume 10mgm/m3, Phenyl Glycidyl Ether 0.1ppm.
Engineering Measures	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles.
Skin Protection	Neoprene or nitrile rubber gloves should be worn..
Respiratory Protection	Use NIOSH approved respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste	Viscosity	Non viscous
Colour	Dark gray	Odor	Epoxy
Appearance	Opaque	pH	Not applicable
Specific Gravity	1.56	Bulk Density	No data available
Evaporation Rate	No information available	Percent Volatile (Volume)	No information available
VOContent (%)	No information available	Vapor Pressure	No information available
Vapor Density	No information available	Solubility	Negligible
Boiling Point/Range	149°C		

SECTION 10 – STABILITY AND REACTIVITY

Conditions to Avoid	Keep away from open flames, hot surfaces, and sources of ignition.
Incompatible Products	Strong acids and strong bases. Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides. Organic materials.
Possibility of Hazardous Reactions	None under normal processing

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SECTION 11 – TOXICOLOGICAL INFORMATION

Component Information	
Acute toxicity	
Component	LD50 Oral
Aluminum oxide	5000 mg/kg (Rat)
Iron	984 mg/kg (Rat)
Bisphenol A - Epichlorohydrin polymer	11400 mg/kg (Rat)
Magnesium oxide fume	no data available
Silicon dioxide - hydrated	5000 mg/kg (Rat)
2-Ethylhexyl glycidyl ether	7800 mg/kg (Rat)
Phenyl glycidyl ether	3850 mg/kg (Rat)
Product Information	No information available
Chronic Toxicity	No data available
Carcinogenicity	Not applicable

SECTION 12 – ECOLOGICAL INFORMATION

Product Information	No information available
Component Information	Strong acids and strong bases. Strong oxidizing agents.
Persistence and Degradability	No information available
Bioaccumulation	No information available
Mobility	No information available

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with local regulations
Container Disposal	Empty containers should be taken for local recycling, recovery or waste disposal

SECTION 15 – REGULATORY INFORMATION

Poison Schedule Schedule 5

SECTION 14 – TRANSPORT INFORMATION

ADG	Not regulated
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SECTION 16 – OTHER INFORMATION

Prepared By	Technical Service Chemist
Issuing Date	24/10/2011
Reason for Revision	No information available
List of References	TBD

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SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name:	MEGACS PART B
Manufacturers Name:	MANTEK AUSTRALIA
Manufacturers Address:	5-9, Ralph Street, Alexandria, NSW 2015
Product Code:	5750
Chemical Nature:	Amine blend
Recommended Use:	Epoxy hardener
Phone:	(02)96690261
Fax:	(02) 96931562
Emergency Telephone Number:	0401718972

SECTION 2 – HAZARDS IDENTIFICATION

CAUTION Emergency Overview	
Causes	Skin and eye burns
Warning may cause	Allergic skin reaction, Allergic respiratory reaction irritation of respiratory tract
May be harmful if	Swallowed or absorbed through skin
Keep out of reach of children	

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Aluminum oxide	1344-28-1	30-60
Diethylene triamine	111-40-0	10-30
4,4-Isopropylidenediphenol	80-05-7	5-10
Titanium dioxide	13463-67-7	1-5
Silicon dioxide - hydrated	763 1-86-9	1-5
Magnesium oxide fume	1309-48-4	1-5
Silica, amorphous, fumed, crystalline-free	112945-52-5	1-5
Nonylphenol	25154-52-3	1-5

SECTION 4 – FIRST AID MEASURES

General Advice	Immediate medical attention is not required. If symptoms persist, call a physician.
EyeContact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.
Skin Contact	Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Do not induce vomiting. Rinse mouth. Drink plenty of water. Get medical attention if symptoms occur.
Notes to Physician	Treat symptomatically

Potential Health Effects	
Colour Dark gray Physical State Paste Odour Amine-like	
Principle Route of Exposure	Inhalation, Skin contact, Eye contact, Ingestion.
Primary Routes of Entry	Inhalation, Ingestion, Skin Absorption.
Acute Effects	
Eyes	Causes eye burns. Corrosive to the eyes and may cause severe damage including blindness. Causes irritation seen as stinging, tearing, and redness.
Skin	Contact causes severe skin irritation and possible burns. May be absorbed through the skin in harmful amounts. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Inhalation	May cause allergic respiratory reaction. Moderate respiratory irritant.
Ingestion	May be harmful if swallowed. Corrosive. Causes burns to the mouth, throat, esophagus, and stomach with nausea and pain. Symptoms may include vomiting of blood. Blood loss through damaged tissue can lead to low blood pressure and shock, and may be fatal.
Chronic Toxicity	Repeated contact may cause allergic reactions in very susceptible persons, Avoid repeated exposure.
Target Organ Effects	Lungs, Eyes, Respiratory system, Kidney.
Aggravated Medical Conditions	Allergies, Skin disorders, Respiratory system.
Potential Environmental Effects	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 12 for additional Ecological information.

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SECTION 5 – FIRE-FIGHTING MEASURES

Flash Point	121°C
Method	Tag closed cup
Auto ignition Temperature	No information available.
Upper	No data available
Lower	No data available
Suitable Extinguishing Media	Water. Foam. Carbon dioxide (CO2).
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes.
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Evacuate personnel to safe areas.
Environmental Precautions	Do not allow material to contaminate ground water system. Should not be released into the environment.
Methods for Containment	No information available.
Methods for Cleaning Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers. Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains.
Neutralizing Agent	Not applicable.

SECTION 7 – HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes, and clothing. Wear personal protective equipment. Ensure adequate ventilation.
Storage	Keep container tightly closed in a dry and well-ventilated place.
Storage Temperature	Minimum 0°C Maximum 49°C
Storage Conditions	Indoor X Outdoor Heated Refrigerated

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	TWA (Time Weighted Average): Aluminium Oxide 1 mg/m3, Diethylene Triamine skin TWA 1ppm ,Titanium Dioxide 10mg/m3 ,Magnesium Oxide 10mg/m3
Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles.
Skin Protection	Impervious gloves, Impervious clothing.
Respiratory Protection	Use NIOSH approved respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General Hygiene Considerations	When using, do not eat, drink, or smoke. Remove and wash contaminated clothing before re-use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste	Viscosity	Not applicable
Color	Dark gray	Odor	Amine-like
Appearance	Opaque	pH	Not applicable
Specific Gravity	1.71	Evaporation Rate	Not applicable
Percent Volatile (Volume)	No information available	VOC Content (%)	No information available
Vapor Pressure	No data available	Vapor Density	No data available
Solubility	Partly soluble Boiling	Point/Range	No data available

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SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	None known.
Incompatible Products	No materials to be especially mentioned.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors
Possibility of Hazardous Reactions	None under normal processing.

SECTION 11 - TOXICOLOGICAL INFORMATION

Component Information	
Acute toxicity	
Component	LD50 Oral
Aluminum oxide	5000 mg/kg (Rat)
Diethylene triamine	819 mg/kg (Rat)
4,4-Isopropylidenediphenol	3200 mg/kg (Rat)
Titanium dioxide	10000 mg/kg (Rat)
Silicon dioxide - hydrated	5000 mg/kg (Rat)
Magnesium oxide fume	no data available
Slica, amorphous, fumed, crystallinefree	3160 mg/kg (Rat)
Nonylphenol	580 mg/kg (Rat)
Product Information	No information available.
Chronic Toxicity	No Data Available
Carcinogenicity	Not Applicable

SECTION 12 – ECOLOGICAL INFORMATION

Product Information	No information available.
Persistence and Degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal	Dispose of in accordance with local regulations.
Container Disposal	Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14 – TRANSPORT INFORMATION

ADG	Not Regulated
Proper Shipping Name	Corrosive solid, basic, organic, n.o.s.
Hazard Class	8
UN-No	UN3263v
Packing Group	III
Shipping Description	UN3263, Corrosive solid, basic, organic, n.o.s.,(Diethylenetriamine, Nonylphenol), 8, PG III, Marine Pollutant

SECTION 15 – REGULATORY INFORMATION

Poison Schedule Schedule 5

SECTION 16 – OTHER INFORMATION

Prepared By	Technical Service Chemist
Issuing Date	24/10/2011
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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