

MATERIAL SAFETY DATA SHEET

PART# 63642504674

DATE PRINTED: NOV 26, 2007

MSDS NO. 04674A

OUTBOUND

04674A - Epoxy Panel Bonding - 90 min - Part 1 - (Part 2 is 04674B)

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME

04674A - Epoxy Panel Bonding - 90 min - Part 1 - (Part 2 is 04674B)

TRADE NAME

MANUFACTURER(4)

Saint-Gobain Abrasives, Inc.

One New Bond Street

Worcester, MA, 01606

(508) 795-5000

EMERGENCY CONTACT

Infotrac

EMERGENCY TELEPHONE #1

1-800-535-5053

REVISION DATE

1/26/2007

MSDS PRINT FORMAT

AUTOUSA

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Acrylic Copolymer	5.000- 9.000	PROPRIETARY
Adhesion Promoter	1.000- 4.000	PROPRIETARY
Carbon Black	0.100- 2.000	1333-86-4
Cured Epoxy Resin	** 50.000- 54.000	NA
Epoxy Resin Modifier	8.000- 12.000	PROPRIETARY
Borosilicate Glass Frit	9.000- 13.000	65997-18-4
Hydrophobic silica	1.000- 5.000	67762-90-7
Amorphous Silica, Fused	14.000- 18.000	60676-86-0
Silica, Crystalline, Cristobal	0.090- 0.100	14464-46-1

** SUBSTANCE IS A COMPOUND AND/OR MIXTURE

OTHER

SECTION 3. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS

Breathing of vapor or mist is possible. It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying or stirring).

INHALATION CHRONIC EXPOSURE EFFECTS

Symptoms can include mouth and throat irritation, soreness, dry or

scratchy feeling, cough, irritation of nose and airways.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

Can cause permanent skin damage. Symptoms may include redness, burring and swelling of of skin, burns, and other skin damage.

EYE CONTACT ACUTE EXPOSURE EFFECTS

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

INGESTION ACUTE EXPOSURE EFFECTS

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

MEDICAL CONDITIONS AGGRAVATED

Persons with existing respiratory tract disorders such as asthma or other lung problems or kidney, skin or eye problems should not be exposed to this product.

SECTION 4. FIRST AID MEASURES

INHALATION

Remove from exposure, restore breathing. Get medical attention.

SKIN CONTACT

Wash with soap and water.

EYE CONTACT

Flush eyes with gentle stream of water for at least 15 minutes. Get medical attention.

INGESTION

Do not induce vomiting. Get medical attention immediately.

SECTION 5. FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

HAZARDOUS PRODUCTS/COMBUSTION

May form: carbon dioxide and carbon monoxide, methanol, various hydrocarbons.

FIRE AND EXPLOSION HAZARDS

No known fire and explosion hazards

EXTINGUISHING METHOD

Carbon Dioxide, Dry Chemical, Foam, Fog Spray

FLASH POINT

210.00 F 98.88 C

FLASH METHOD

SETA

UPPER EXPLOSION LIMIT

NA

LOWER EXPLOSION LIMIT

NA

HAZARD RATING SOURCE

NFPA

HEALTH

3

FLAMMABILITY

1

REACTIVITY

0

OTHER

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP

Remove all sources of ignition. Ventilate the area. Do not use combustible materials such as sawdust as an absorbent. Remove with inert absorbent material.

SECTION 7. HANDLING AND STORAGE

HANDLING

STORAGE

Do not store near extreme heat, open flame, or sources of ignition.

GENERAL COMMENTS

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION

Use only with adequate ventilation. Avoid contact with skin and eyes. Avoid contact with skin and eyes. Avoid breathing vapor. Wash hands after using. During use and until all vapors are gone; keep area ventilated.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted air supplied respirator approved by NIOSH for protection against materials in Section 2.

SKIN PROTECTION

Wear chemical resistant gloves.

EYE PROTECTION

Use chemical splash goggles in compliance with OSHA regulations. Consult your safety representative.

OTHER PROTECTION

Intentional misuses by deliberately concentrating and inhaling vapors can be harmful or fatal.

EXPOSURE LIMITS/REGULATORY INFORMATION

SUBSTANCE DESCRIPTION	UNITS	OSHA	ACGIH	MOL
Acrylic Copolymer		0.0000	0.0000	0.0000
Adhesion Promoter		0.0000	0.0000	0.0000
Carbon Black	MG/M3	3.5000	3.5000	0.0000
Cured Epoxy Resin	PPM	0.0000	0.0000	0.0000
Epoxy Resin Modifier		0.0000	0.0000	0.0000
Borosilicate Glass Frit	MG/M3	15.0000	0.0000	0.0000
Hydrophobic silica		0.0000	0.0000	0.0000
Amorphous Silica, Fused	MG/M3	0.1000	0.1000	0.0000
Silica, Crystalline, Cristobalite				

0.0000 0.0000 0.0000

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR

Black paste

SPECIFIC GRAVITY

1.081

VAPOR PRESSURE (mm Hg)

VAPOR DENSITY (Air = 1.0)

Not available

EVAPORATION RATE

Slower than ethyl ether

VOLATILE %

0.0

lbs/gal

SOLUBILITY IN WATER

Not Soluble

BOILING POINT

300.00 F 148.88 C

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES

Amines, strong alkalies, strong mineral acids, strong oxidizing agents. Contact with water liberates methanol.

DECOMPOSITION

By fire: Carbon dioxide and carbon monoxide, methanol, various hydrocarbons

POLYMERIZATION

Will not occur.

CONDITIONS TO AVOID

STABILITY

Yes - Under the recommended storage and handling conditions prescribed.

SECTION 11. TOXICOLOGICAL INFORMATION

INHALATION EFFECTS

DERMAL EFFECTS

INGESTION EFFECTS

SECTION 12. ECOLOGICAL INFORMATION

CHEMICAL FATE

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL

Dispose of in accordance with all applicable local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME

SECTION 15. OTHER INFORMATION

CARCINOGENICITY

Crystalline Silica, Quartz - IARC-1, NIOSH-X, NTP-R
CA PROP 65

This product contains chemicals, Crystalline Silica, known to the State of California, to cause cancer.

TSCA

Section 8(b) - Inventory Status

All components of this product are registered under the regulations of the Toxic Substance Control Act.

DOMESTIC SUBSTANCE LIST

All components of this product are found on the Domestic Substance List.

DISCLAIMER

The above data was compiled from sources believed to be reliable and representing the most reasonable and current opinion on the subject when this sheet was prepared. It is the users responsibility to determine the suitability of the information for the adoption of safety measures necessary to safely use this product either alone or in combination with other products. The user has the responsibility to contact the company to ensure that the MSDS being used in the latest issue.

KEY TO ABBREVIATIONS:

EQ=Equal

AP=Approximately

=

LT=Less Than

TR=Trace

GT=Greater Than

ND=No Data available

MATERIAL SAFETY DATA SHEET

PART# 63642504674
 DATE PRINTED: NOV 26, 2007
 MSDS NO. 04674B OUTBOUND
 04674B - Epoxy Panel Bonding - 90 min - Part 2 - (Part 1 is 04674A)

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME
 04674B - Epoxy Panel Bonding - 90 min - Part 2 - (Part 1 is 04674A)
 TRADE NAME

 MANUFACTURER(4)
 Saint-Gobain Abrasives, Inc.
 One New Bond Street
 Worcester, MA, 01606
 (508) 795-5000
 EMERGENCY CONTACT
 Infotrac
 EMERGENCY TELEPHONE #1
 1-800-535-5053
 REVISION DATE
 1/29/2007
 MSDS PRINT FORMAT
 AUTOUSA

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION	PERCENT	CAS#
Calcium Sodium aluminosilicate	8.000- 12.000	1344-01-0
Amide	1.000- 5.000	PROPRIETARY
Amino Ether	19.000- 23.000	PROPRIETARY
Cured Epoxy Resin **	0.000	NA
Epoxy Resin Modifier	13.000- 14.000	PROPRIETARY
Fatty Acid	19.000- 23.000	57-11-4
Hydrophobic silica	2.000- 7.000	67762-90-7
Imidazole	1.000- 5.000	288-32-4
Phenol, 2,4,6-tris(dimethylami	6.000- 10.000	90-72-2
Amorphous Silica, Fused	14.000- 18.000	60676-86-0
Silica, Crystalline, Cristobal	1.000- 9.000	14464-46-1
1-Propanamine, 3,3'-(oxybis(2,	6.000- 10.000	4246-51-9

** SUBSTANCE IS A COMPOUND AND/OR MIXTURE
 OTHER

SECTION 3. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS
 Breathing of vapor or mist is possible. It is possible to breathe this material under certain conditions of handling and use (for

example, during heating, spraying or stirring).

INHALATION CHRONIC EXPOSURE EFFECTS

Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat and respiratory tract. Prolonged or repeated breathing of this material may result in chronic bronchitis. Symptoms include coughing and shortness of breath.

SKIN CONTACT ACUTE EXPOSURE EFFECTS

Can cause permanent skin damage. Symptoms may include redness, burring and swelling of of skin, burns, and other skin damage.

EYE CONTACT ACUTE EXPOSURE EFFECTS

Can cause irreversible eye damage. Exposure to vapor can cause severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, halo vision characterized by blurring vision around bright objects and eye damage.

INGESTION ACUTE EXPOSURE EFFECTS

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. May cause burns and destroy tissue in the mouth, throat and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

MEDICAL CONDITIONS AGGRAVATED

Persons with existing respiratory tract disorders such as asthma or other lung problems or kidney, skin or eye problems should not be exposed to this product.

SECTION 4. FIRST AID MEASURES

INHALATION

Remove from exposure, restore breathing. Get medical attention.

SKIN CONTACT

Wash with soap and water.

EYE CONTACT

Flush eyes with gentle stream of water for at least 15 minutes. Get medical attention.

INGESTION

Do not induce vomiting. Get medical attention immediately.

SECTION 5. FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

HAZARDOUS PRODUCTS/COMBUSTION

May form: carbon dioxide and carbon monoxide, hydrogen cyanide, nitrogen compounds, various hydrocarbons.

FIRE AND EXPLOSION HAZARDS

Vapors are heavier than air and collect in low-lying areas. Vapors can travel to a source of ignition and flash back causing explosion and/or fire

EXTINGUISHING METHOD

Carbon Dioxide, Dry Chemical, Foam, Fog Spray

FLASH POINT

F C No data

FLASH METHOD

SETA

UPPER EXPLOSION LIMIT

NA

LOWER EXPLOSION LIMIT

NA
HAZARD RATING SOURCE
NFPA
HEALTH
3
FLAMMABILITY
1
REACTIVITY
0
OTHER

SECTION 6. ACCIDENTAL RELEASE MEASURES

CLEAN-UP

Remove all sources of ignition. Ventilate the area. Do not use combustible materials such as sawdust as an absorbent. Remove with inert absorbent material.

SECTION 7. HANDLING AND STORAGE

HANDLING

STORAGE

Do not store near extreme heat, open flame, or sources of ignition.

GENERAL COMMENTS

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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SUBSTANCE DESCRIPTION	UNITS	OSHA	ACGIH	MOL
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Amide		0.0000	0.0000	0.0000

Amino Ether		0.0000	0.0000	0.0000
Cured Epoxy Resin		0.0000	0.0000	0.0000
Epoxy Resin Modifier	PPM	0.0000	0.0000	0.0000
Fatty Acid		0.0000	0.0000	0.0000
Hydrophobic silica	PPM	0.0000	0.0000	0.0000
Imidazole		0.0000	0.0000	0.0000
Phenol, 2,4,6-tris(dimethylamino)me		0.0000	0.0000	0.0000
Amorphous Silica, Fused		0.0000	0.0000	0.0000
Silica, Crystalline, Cristobalite	MG/M3	0.1000	0.1000	0.0000
1-Propanamine, 3,3'-(oxybis(2,1-eth		0.0000	0.0000	0.0000
		0.0000	0.0000	0.0000

LEGEND:

EXPOSURE LIMIT DESCRIPTIONS

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR

Tan paste

SPECIFIC GRAVITY

1.081

VAPOR PRESSURE (mm Hg)

VAPOR DENSITY (Air = 1.0)

Not available

EVAPORATION RATE

Slower than ethyl ether

VOLATILE %

0.0

lbs/gal

SOLUBILITY IN WATER

Not Soluble

BOILING POINT

F

C NO DATA

SECTION 10. STABILITY AND REACTIVITY

INCOMPATIBILITIES

Aluminum, copper, galvanized metals, heat, peroxides, strong mineral acids, strong oxidizing agents, zinc

DECOMPOSITION

By fire: Ammonia, carbon dioxide and carbon monoxide, nitrogen oxides, various hydrocarbons

POLYMERIZATION

Will not occur.

CONDITIONS TO AVOID

STABILITY

Yes - Under the recommended storage and handling conditions prescribed.

SECTION 11. TOXICOLOGICAL INFORMATION

INHALATION EFFECTS

DERMAL EFFECTS

INGESTION EFFECTS

SECTION 12. ECOLOGICAL INFORMATION

CHEMICAL FATE

SECTION 13. DISPOSAL CONSIDERATIONS

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CA PROP 65

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