(M)SDS Format :	ANSI	k
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MSDS Name

Structural Adhesive - Urethane (1

minute)

Manufacturer Name

Saint-Gobain Abrasives, Inc.

Stock No.

04615

Kit MSDS Revision Date

07/01/2013

Components	
	Structural Adhesive - Urethane (1 minute) Part 1
	Structural Adhesive - Urethane (1 minute) Part 2
Saint-Gobain Abrasives, Inc. Product Code: 04615	

# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

		NFPA	
Product Name.	Structural Adhesive - Urethane (1 minute) Part 1	2 1	
Product Code	04615A		
MSDS Manufacturei Number	04615A		
Manufacturer Name	Saint-Gobain Abrasives, Inc.	HMIS	
Address.	1 New Bond Street Worcester, MA 01615	Health Hazard	2
General Phone Number	508-795-5000	Fire Hazard	1
Emergency Phone Number	508-795-5000		₽
Website	www.Nortonabrasives.com	Reactivity	1
MSDS Creation Date	08/09/2010	Personal	T,
MSDS Revision Date	07/01/2013	Protection	ľ

# SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Talc (no asbestos)	14807-96-6	5 - 10 by weight
4,4 DiPhenylmeth.DiIsocyanate	101-68-8	30 - 40 by weight
Colloidal Silica	68611-44-9	3 - 7 by weight
Urethane Prepolymer	Trade secret	20 - 30 by weight
MDI Homopolymer	25686-28-6	10 - 15 by weight
Aluminum oxide	1344-28-1	1 - 3 by weight
Sodium oxide	1333-59-3	1 - 3 by weight

Silicon dioxide

7631-86.9

1 - 5 by weight

Calcium monoxide

1305-78-8

1 - 3 by weight

#### SECTION 3: HAZARDS IDENTIFICATION

**Emergency Overview** 

WARNING! Potential Sensitizer. Irritant.

Route of Exposure.

Eyes, Skin Inhalation, Ingestion

Potential Health Effects

Eye

Can cause moderate irritation, burning sensation, tearing, redness, and swelling.

Overexposure may cause lacrimation, conjunctivitis, comeat damage and

permanent injury .

Skin Can cause skin irritation, itching, redness, rashes, hives, burning, and swelling.

Allergic reactions are possible.

May cause skin sensitization, an allergic reaction, which becomes evident on

reexposure to this material

Respiratory tract Irritant. High concentration may cause dizziness, headache, Inhalation

and anesthetic effects. May cause respiratory sensitization with asthma-like

symptoms in susceptible individuals.

Indestion Causes irritation, a burning sensation of the mouth, throat and gastrointestinal

tract and abdominal pain.

#### SECTION 4: FIRST AID MEASURES

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 to 20 minutes.

Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get

immediate medical attention.

Skin Contact

Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while

removing contaminated clothing and shoes.

Get medical attention if irritation develops or persists.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration or give

oxygen by trained personnel. Seek immediate medical attention.

Ingestion

If swallowed, do NOT induce vomiting, Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person

# **SECTION 5: FIRE FIGHTING MEASURES**

Flash Point

200 °F (93.3 °C)

Flash Point Method

SETA

Auto Ignition Temperature Lower Flammable/Explosive Limit Not determined.

Not determined.

Upper Flammable/Explosive Limit. Not determined. Fire Fighting Instructions.

Evacuate area of unprotected personnel. Use cold water spray to cool fire

exposed containers to minimize risk of rupture. Do not enter confined fire space

without full protective gear If possible, contain fire run-off water.

Extinguishing Media,

Use carbon dioxide (CO2) or dry chemical when fighting fires involving this

material.

Unsuitable Media:

Water or foam may cause frothing

Protective Equipment

As in any fire, wear Self-Contained, Breathing Apparatus (SCBA), MSHA/NIOSH

(approved or equivalent) and full protective gear

# **NFPA Ratings**:

NFPA Flammability

1

NFPA Health NFPA Reactivity 2

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures.

Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush

spill area with soap and water to remove trace residue.

Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper

personal protective equipment as listed in section 8.

Personnel Precautions

Evacuate area and keep unnecessary and unprotected personnel from entering

the spill area

Environmental Precautions

Other Precautions.

Avoid runoff Into storm sewers, ditches, and waterways.

Pump or shovel to storage/salvage vessels.

## SECTION 7: HANDLING and STORAGE

Handling: Storage

Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.

Special Handling Procedures

Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect against dust during sanding/grinding of cured product.

Hygiene Practices

Wash thoroughly after handling

# SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection:

Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard

Skin Protection Description

Wear appropriate protective gloves and other protective apparel to prevent skin

contact. Consult manufacturer's data for permeability data

Respiratory Protection

A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator If there is any potential for an uncontrolled release, exposure levels are not known, or any other dreumstances where air purifying respirators may not

provide adequate protection:

Other Protective

Facilities storing or utilizing this material should be equipped with an eyewash

and a deluge shower safety station.

#### **EXPOSURE GUIDELINES**

Talc (no asbestos):

Guideline ACGIH.

2 mg/m3

TLV-TWA: 1 mg/m3 Respirable fraction (R) TLV-TWA: 2 mg/m3 Respirable fraction (R)

Guideline OSHA.

20 mppcf

PEL-TWA: 20 mppcf

4.4 DiPhenvimeth.DiIsocyanate:

Guideline ACGIH 0 005 ppm

Guideline OSHA:

TLV-TWA: 0 005 ppm PEL-Celling/Peak 0.02 ppm

Aluminum oxide:

Guideline ACGIH

TLV-TWA: 10 mg/m3

Guideline OSHA

PEL-TWA: 5 mg/m3 Respirable fraction (R) PEL-TWA: 15 mg/m3 Total particulate/dust (T)

Calcium monoxide:

Guideline ACGIH

TLV-TWA: 2 mg/m3

Guideline OSHA.

PEL-TWA 5 mg/m3

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Color Odor

No Data No Data

Boiling Point. Melting Point Specific Gravity

Not determined. Not determined 1.288 @70 °F

Vapor Pressure:

<0.010 mmHg @ 77 °F

Percent Volatile: Evaporation Rate: Not determined. Slower than ethyl ether.

Flash Point.

200 °F (93,3 °C)

Flash Point Method

SETA

Auto Ignition Temperature: VOC Content

Not determined.

Not determined.

### SECTION 10: STABILITY and REACTIVITY

Chemical Stability

Stable under normal temperatures and pressures

Hazardous Polymerization

Not reported.

Conditions to Avoid

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and

oxidizing conditions

Incompatible Materials

Oxidizers, acids, and chlorinated organic compounds. Reactive metals (e.g. sodium, calcium, zinc). Sodium/calcium hypochlorite. Nitrous acid/ oxide,

nitrites Peroxides. Materials reactive with hydroxyl compounds.

#### SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Number

WW2710000

4.4 DIPhenylmeth, DiIsocvanate:

RTECS Number

NQ9350000

Eye

Eye - Rabbit Standard Draize test.: 100 mg

Skin'

Orai - Rat LD50: 9200 mg/kg [Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Nutritional and Gross Metabolic - Body temperature

Oral - Mouse LD50: 2200 mg/kg [Details of toxic effects not reported other than

lethal dose value]

Inhalation - Rat LC50: 178 mg/m3 [Details of toxic effects not reported other

Inhalation

than lethal dose value]

Indestion

Oral - Rat LD50 9200 mg/kg (Behavioral - Somnolence (general depressed activity) Behavioral - Ataxia Nutritional and Gross Metabolic - Body temperature

decrease)

Oral - Mouse LD50: 2200 mg/kg [Details of toxic effects not reported other than

lethal dose value]

Aluminum oxide:

RTECS Number

BD1200000

Inhalation

Inhalation - Rat TCLo: 200 mg/m3/5H/28W (Intermittent) (Lungs, Thorax, or

Respiration - Structural or functional change in trachea or bronchl; Lungs, Thorax, or Respiration - Chronic pulmonary edema; Related to Chronic Data -

death1 (RTECS)

**RTECS Number** 

EW3100000

# SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

No ecotoxicity data was found for the product.

**Environmental Fate** 

No environmental information found for this product.

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal

Consult with the US EPA Guidelines listed in 40 CFR Part 261 3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance Arrange disposal in accordance to the EPA and/or state and local

quidelines. RCRA Number: None. SECTION 14: TRANSPORT INFORMATION DOT Shipping Name Non regulated. DOT UN Number Non regulated. IATA Shipping Name Non regulated. IATA UN Number: Non regulated. **SECTION 15: REGULATORY INFORMATION** Talc (no asbestos): TSCA Inventory Status Listed Canada DSL. Listed 4.4 DiPhenylmeth, Di Isocyanate: TSCA Inventory Status Listed SARA EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical. Canada DSL Listed **EC Number** 615-005-00-9 Aluminum oxide: TSCA Inventory Status. Listed Canada DSL. Listed **EC Number** 215-691-6 Calclum monoxide: **ISCA Inventory Status** Listed Canada DSL Listed EC Number. 215-138-9 Canada WHMIS WHMIS Hazard Class(es). D2B This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations. SECTION 16: ADDITIONAL INFORMATION HMIS Fire Hazard HMIS Health Hazard 2 HMIS Reactivity HMIS Personal Protection MSDS Creation Date: 08/09/2010 MSDS Revision Date: 07/01/2013 Copyrighti¿1/2 1996-2011 Actio Software Corporation. All Rights Reserved. UPC Number = 63642504615

# SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION NFPA Product Name Structural Adhesive - Urethane (1 minute) Part 2 Product Code 94615B MSDS Manufacturer Number Manufacturer Name Manufacturer Name Address 1 New Bond Street Number

Worcester, MA 01615

General Phone Number

Emergency Phone Number 508-795-5000

508-795-5000

www.Nortonabrasives.com 08/09/2010

MSDS Creation Date. MSDS Revision Date

07/01/2013

Health Hazard	1
Fire Hazard	1
Reactivity	0
Personal Protection	1

Chronic Health Effects

# SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Urethane prepolymer	Proprietary	5 - 15 by weight
Polyether Polyol	Not Available	30 - 40 by weight
Talc	14807-96-6	20 - 30 by weight
Oxirane, methyl-, polymer with	9082-00-2	18 - 21 by weight
Amorphous silica	68909-20-6	1 - 5 by weight
Clay	71011-26-2	1 - 3 by weight
Carbon black	1333-86-4	0.1 - 1.0 by weight

#### SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview.

Route of Exposure.

Potential Health Effects:

Skin

Inhalation

WARNINGI Potential Sensitizer. Irritant. Eyes, Skin, Inhalation, Ingestion

Can cause moderate irritation, burning sensation, tearing, redness, and swelling. Overexposure may cause lacrimation, conjunctivitis, comeal damage and

permanent injury..

Can cause skin irritation; Itching, redness, rashes, hives, burning, and swelling. Allergic reactions are possible.

May cause skin sensitization, an allergic reaction, which becomes evident on

reexposure to this material. Respiratory tract irritant. High concentration may cause dizziness, headache,

and anesthetic effects. May cause respiratory sensitization with asthma-like

symptoms in susceptible individuals.

Ingestion Causes irritation, a burning sensation of the mouth, throat and gastrointestinal

tract and abdominal pain.

#### SECTION 4: FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes.

Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get

immediate medical attention.

Skin Contact. Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while

removing contaminated clothing and shoes.

Get medical attention if irritation develops or persists.

Inhalation. If inhaled, remove to fresh air. If not breathing, give artificial respiration or give

oxygen by trained personnel. Seek immediate medical attention.

Ingestion If swallowed, do NOT induce vomiting Call a physician or poison control center

immediately. Never give anything by mouth to an unconscious person.

# **SECTION 5: FIRE FIGHTING MEASURES**

Flash Point

200 °F (93.3 °C)

Flash Point Method

SETA

Auto Ignition Temperature: Lower Flammable/Explosive Limit Not determined.

Upper Flammable/Explosive Limit: Not determined.

Fire Fighting Instructions

Not determined.

Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space

without full protective gear. If possible, contain fire run-off water. Use carbon dioxide (CO2) or dry chemical when fighting fires involving this

Unsuitable Media Water or foam may cause frothing.

Protective Equipment As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH

(approved or equivalent) and full protective gear.

NFPA Ratings:

Extinguishing Media:

NFPA Flammability 1 NFPA Health: NFPA Reactivity

# SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill Cleanup Measures Absorb spill with inert material (e,g., dry sand or earth), then place in a

chemical waste container. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush

spill area with soap and water to remove trace residue.

Avoid personal contact and breathing vapors or mists. Ventilate area. Use proper

personal protective equipment as ilsted in section 8.

Personnel Precautions Evacuate area and keep unnecessary and unprotected personnel from entering

Pump or shovel to storage/saivage vessels.

**Environmental Precautions** 

Other Precautions

Avoid runoff into storm sewers, ditches, and waterways.

#### SECTION 7: HANDLING and STORAGE

Handling

Storage

Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Store in a cool, dry, well ventilated area away from sources of heat and

incompatible materials. Keep container tightly closed when not in use

Special Handling Procedures

Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and to protect

against dust during sanding/grinding of cured product.

Hygiene Practices:

Wash thoroughly after handling.

# SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls Use appropriate engineering control such as process enclosures, local exhaust

ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training,

Inspection and maintenance of the personal protective equipment.

Eye/Face Protection Wear appropriate protective glasses or splash goggles as described by 29 CFR

1910.133, OSHA eye and face protection regulation, or the European standard

EN 166.

Skin Protection Description Wear appropriate protective gloves and other protective apparel to prevent skin

contact. Consult manufacturer's data for permeability data.

Respiratory Protection A NIOSH approved air-purifying respirator with an organic vapor cartridge or

canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator If there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not

provide adequate protection

Facilities storing or utilizing this material should be equipped with an eyewash Other Protective

and a deluge shower safety station.

#### **EXPOSURE GUIDELINES**

Talc:

Guideline ACGIH

2 mg/m3

TLV-TWA: 1 mg/m3 Respirable fraction (R) TLV-TWA. 2 mg/m3 Respirable fraction (R)

Guideline OSHA<sup>1</sup>

20 mppcf PEL-TWA 20 mppcf

Carbon black:

Guideline ACGIH.

3.5 mg/m3

TLV-TWA: 3.5 mg/m3

#### SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

Color.

Black. No Data

Odor Boiling Point Melting Point

Not determined. Not determined.

Specific Gravity Vapor Pressure Percent Volatile 1.288 @77 °F
Not determined.
Not determined.

Evaporation Rate Flash Point<sup>\*</sup> Not determined. 200 °F (93.3 °C)

Flash Point Method

SETA

Auto Ignition Temperature: VOC Content Not determined.

Not determined.

# SECTION 10: STABILITY and REACTIVITY

Chemical Stability

Stable under normal temperatures and pressures.

Hazardous Polymerization:

Not reported.

Conditions to Avoid

Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and

oxidizing conditions

Incompatible Materials

Oxidizers, acids, and chlorinated organic compounds. Reactive metals (e.g. sodium, calcium, zinc). Sodium/calcium hypochlorite. Nitrous acid/ oxide,

nitrites. Peroxides. Materials reactive with hydroxyl compounds

### SECTION 11: TOXICOLOGICAL INFORMATION

RTECS Number

WW2710000

Oxirane, methyl-, polymer with: RTECS Number

TQ8180000

Skin

Oral - Rat LD50 . >10 gm/kg [Details of toxic effects not reported other than

lethal dose value]

Administration onto the skin - Rabbit LD50 . >30 gm/kg [Details of toxic effects

not reported other than lethal dose value)

Ingestion

Oral - Rat LD50 >10 gm/kg [Details of toxic effects not reported other than

lethal dose value)

Carbon black: RTECS Number

FF5800000

Skin:

Oral - Rat LD50: >15400 mg/kg [Behavioral - Somnolence (general depressed

activity)]

Administration onto the skin - Rabbit LD50: >3 gm/kg [Details of toxic effects

not reported other than lethal dose value)

Ingestion

Orai - Rat LD50. >15400 mg/kg [Behavloral - Somnolence (general depressed

activity)]

# SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

No ecotoxicity data was found for the product.

Environmental Fate:

No environmental information found for this product.

#### SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal<sup>2</sup>

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance, Arrange disposal in accordance to the EPA and/or state and local

guidelines.

RCRA Number

None.

# **SECTION 14: TRANSPORT INFORMATION**

DOT Shipping Name

Non regulated. Non regulated. Non regulated

DOT UN Number IATA Shipping Name! IATA UN Number

Non regulated.

#### SECTION 15: REGULATORY INFORMATION

Talc:

TSCA Inventory Status.

Listed

Canada DSL:

Listed

Oxirane, methyl-, polymer with: TSCA Inventory Status:

Listed

Canada DSL

Listed

Carbon black:

TSCA Inventory Status

Listed

California PROP 65

Listed: cancer.

Canada DSL

Listed

Canada WHMIS.

WHMIS Hazard Class(es): D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information

required by the Controlled Products Regulations.

# SECTION 16: ADDITIONAL INFORMATION

HMIS Fire Hazard

1

HMIS Health Hazard.

1

HMIS Reactivity

0

HMIS Personal Protection MSDS Creation Date

1 08/09/2010

MSDS Revision Date:

07/01/2013

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UPC Number = 63642504615