



## Section 1: Identification of the Substance/Mixture and of the Company Undertaking

### Product identifier used on the label:

**Product Name:** Adhesion Promoter (Aerosol)

### Other means of identification:

**Product Codes:** 63642504625

### Recommended use of the chemical and restrictions on use:

**Product Uses:** Surface Modifier

### Chemical manufacturer address and telephone number:

**Manufacturer Name:** Saint-Gobain Abrasives, Inc.

**Manufacturer Address 1:** 1 New Bond Street

**Manufacturer City:** Worcester

**Manufacturer State:** MA

**Manufacturer Zip Code:** 01615

**Manufacturer Country:** USA

**Manufacturer Web:** [www.Nortonabrasives.com](http://www.Nortonabrasives.com)

**Business Phone:** 800-551-4413

**Distributor:** Saint-Gobain Canada, Inc.

**Distributor Address 1:** 28 Albert Street, W.

**Distributor City:** Plattsville

**Distributor State:** ON

**Distributor ZipCode:** N0J 1S0

**Distributor Country:** Canada

**Distributor Web:** [www.Nortonabrasives.com](http://www.Nortonabrasives.com)

**Distributor Phone:** 519-684-7441

### Emergency phone number:

**Emergency Phone:** 508-795-5000

**Distributor Emergency Phone:** 508-795-5000

**Creation Date:** 08/09/2010

**Revision Date:** 2018-07-18 16:39:41

**Notes from Section 1:** CHEMTREC:  
For emergencies in the US, call CHEMTREC: 800-424-9300  
For emergencies in Canada, call CHEMTREC: 800-424-9300

## Section 2: Hazards Identification

### Classification of the chemical in accordance with CFR 1910.1200(d)(f):

**Signal Words:**

Danger

**Product:****GHS Class:**

Flammable aerosols Category 1  
 Acute toxicity Inhalation - Vapours Category 4  
 Acute toxicity Inhalation - Dust and Mist Category 4  
 Skin corrosion/irritation Category 2  
 Serious eye damage/eye irritation Category 2A  
 Carcinogenicity Category 2  
 Reproductive toxicity Category 2  
 Specific target organ systemic toxicity (single exposure) Category 3  
 Specific target organ systemic toxicity (single exposure) Category 2 circulatory system, Cardio-vascular system, Heart  
 Specific target organ systemic toxicity (repeated exposure) Category 1 Body, Central nervous system  
 Aspiration hazard Category 1  
 Hazardous to the aquatic environment - acute hazard Category 2  
 Hazardous to the aquatic environment - chronic hazard Category 2

**Hazard Statements:**

H222 - Extremely flammable aerosol.  
 H332 - Harmful if inhaled.  
 H315 - Causes skin irritation.  
 H319 - Causes serious eye irritation.  
 H351 - Suspected of causing cancer .  
 H361 - Suspected of damaging fertility or the unborn child .  
 H336 - May cause drowsiness or dizziness.  
 H335 - May cause respiratory irritation.  
 H371 - May cause damage to organs.(circulatory system, Cardio-vascular system, Heart)  
 H372 - Causes damage to organs through prolonged or repeated exposure.(Body, Central nervous system)  
 H304 - May be fatal if swallowed and enters airways.  
 H401 - Toxic to aquatic life.  
 H411 - Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

P210 - Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Pressurized container: Do not pierce or burn, even after use.  
P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P280 - Wear protective gloves/eye protection/face protection.  
P281 - Use personal protective equipment as required.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 - Wash thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
Call a POISON CENTER or doctor/physician if exposed or you feel unwell.  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P304+P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 - Do NOT induce vomiting.  
P362 - Take off contaminated clothing and wash before reuse.  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
P501 - Dispose of contents/container in accordance with waste/disposal laws and regulations of your country or particular locality

**Hazards not otherwise classified that have been identified during the classification process:**

### Section 3: Composition/Information on Ingredients

#### Mixtures:

Ingredient Name	CAS Number	Ingredient Percent	EC Number	Comments
Cyclohexane	110-82-7	Range : 50- 55%		
Methyl-n-propyl ketone	107-87-9	Range : 20- 25%		
Propane	74-98-6	Range : 15- 20%		
Isobutane	75-28-5	Range : 5- 10%		
Methyl isobutyl ketone	108-10-1	Range : 1- 5%		

#### Product:

**Comments:** Any "PROPRIETARY" component(s) in the above table is considered trade secret, thus the specific chemical and its exact concentration is being withheld.

### Section 4: First Aid Measures

#### Description of necessary measures:

**Eye Contact:** Flush eyes immediately with large amount of water for at least 15 minutes holding eyelids open while flushing. Get prompt medical attention.

**Skin Contact:** Flush contaminated skin with large amounts of water while removing contaminated clothing. Wash affected skin areas with soap and water. Get medical attention if symptoms occur.

**Inhalation:** Move person to fresh air. Restore and support continued breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Call a physician or poison control center immediately for further instructions. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing

**Most important symptoms/effects, acute and delayed:**

**Indication of immediate medical attention and special treatment needed**

## Section 5: Firefighting Measures

**Suitable and unsuitable extinguishing media**

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam, Water Fog

**Unsuitable Media:** Not determined for this product.

**Specific hazards arising from the chemical**

**Special protective equipment and precautions for fire-fighters**

**Fire Fighting Instructions:** Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water spray may be ineffective. If water is used, fog nozzles are preferable

**Protective Equipment:** Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA). Water spray may be ineffective. If water is used, fog nozzles are preferable

**Notes from Section 5:** SPECIFIC HAZARDS POSSIBLY ARISING FROM THE CHEMICAL: Extremely flammable liquid and vapor. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, open flame, and other sources of ignition. Closed containers may rupture when exposed to extreme heat. Use water spray to keep fire exposed containers cool. During a fire, irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.

## Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures**

**Personnel Precautions:** PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES: Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Avoid breathing vapors. Use self-contained breathing equipment. Avoid contact.

**Methods and materials for containment and cleaning up**

**Methods for Containment:** Keep non-essential personnel away from spill area. Notify appropriate authorities if necessary. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the SDS form.

**Methods for Cleanup:** Keep non-essential personnel away from spill area. Notify appropriate authorities if necessary. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact. Before attempting cleanup, refer to hazard caution information in other sections of the SDS form.

**Environmental precautions**

**Environmental Precautions:** Do not contaminate bodies of water, waterways, or ditches, with chemical or used container.

## Section 7: Handling and Storage

**Precautions for safe handling**

**Handling:** Keep closure tight and container upright to prevent leakage. Ground and bond containers when transferring material. Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing of vapor or spray mists. Do not handle until all safety precautions have been read and understood. Empty containers should not be re-used. Use with adequate ventilation. Because empty containers may retain product residue and flammable vapors, keep away from heat, sparks and flame; do not cut, puncture or weld on or near the empty container. Do not smoke where this product is used or stored

**Hygiene Practices:** Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities**

**Storage:** Do not store or use near heat, sparks, or open flame. Store only in well-ventilated areas. Do not puncture, drag, or slide container. Keep container closed when not in use. Refer to OSHA 29CFR Part 1910.106 "Flammable and Combustible Liquids" for specific storage requirements.

INCOMPATIBILITY: Strong acids, bases, and strong oxidizers.

## Section 8: Exposure Controls/Personal Protection

**Exposure Guidelines****Exposure Guidelines - Ingredient Based:****Cyclohexane:**

**Exposure Guidelines:** ACGIH TLV-TWA : 100 ppm  
 ACGIH TLV-STEL : N.E.  
 OSHA PEL-TWA : 1,050 mg/m<sup>3</sup> 300 ppm  
 OSHA PEL-CEILING : N.E.  
 Skin : N.A.

**Methyl-n-propyl ketone:**

**Exposure Guidelines:** ACGIH TLV-TWA : 200 ppm  
 ACGIH TLV-STEL : 250 ppm  
 OSHA PEL-TWA : 700 mg/m<sup>3</sup> 200 ppm  
 OSHA PEL-CEILING : N.E.  
 Skin : N.A.

**Propane:**

**Exposure Guidelines:** ACGIH TLV-TWA : 2,500 ppm  
 ACGIH TLV-STEL : N.E.  
 OSHA PEL-TWA : 1,800 mg/m<sup>3</sup> 1,000 ppm  
 OSHA PEL-CEILING : N.E.  
 Skin : N.A.

**Isobutane:**

**Exposure Guidelines:** ACGIH TLV-TWA : 1,000 ppm  
 ACGIH TLV-STEL : N.E.  
 OSHA PEL-TWA : N.E.  
 OSHA PEL-CEILING : N.E.  
 Skin : N.A.

**Methyl isobutyl ketone:**

<b>Exposure Guidelines:</b>	ACGIH TLV-TWA : 50 ppm ACGIH TLV-STEL : 75 ppm OSHA PEL-TWA : 410 mg/m <sup>3</sup> 100 ppm OSHA PEL-CEILING : N.E. Skin : N.A.
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### Appropriate engineering controls

<b>Engineering Controls:</b>	Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Caution: Solvent vapors are heavier than air and collect in lower levels of the work area. Sufficient ventilation (using explosion-proof equipment) should be provided to prevent flammable vapor/air mixtures from accumulating
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### Individual protection measures

<b>Eye Protection:</b>	Use safety eyewear including safety glasses with side shields and chemical goggles where splashing may occur.
<b>Skin Protection:</b>	Use neoprene, nitrile, or rubber gloves to prevent skin contact.
<b>Respiratory Protection:</b>	Use a NIOSH approved chemical/mechanical filter respirator designed to remove a combination of particulates and organic vapor if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air-supplied respirator. For respirator use observe OSHA regulations (29CFR 1910.134) or use in accordance with applicable laws and regulations of your country or particular locality
<b>Other Protective:</b>	OTHER PROTECTIVE EQUIPMENT: Use disposable or impervious clothing if work clothing contamination is likely. Remove and wash contaminated clothing before reuse.
<b>Hygiene Practices:</b>	Wash hands before eating, smoking, or using toilet facility. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored. Wash thoroughly after handling.
<b>Notes from Section 8:</b>	N.A. - Not Applicable, N.E. - Not Established, S - Skin Designation

## Section 9: Physical and Chemical Properties

### Physical and chemical properties

<b>Physical State:</b>	Liquid <b>APPEARANCE:</b> Clear
<b>Odor:</b>	Solvent
<b>pH:</b>	N.A.
<b>Boiling Temperature:</b>	-42 - 117 °C
<b>Flash Point:</b>	-142 °F, -96 °C
<b>Flash Point Method:</b>	Setaflash Closed Cup
<b>Ignition Temperature:</b>	N.D.
<b>Lower Flammable Limit:</b>	LOWER EXPLOSIVE LIMIT: 1.3 %(V)
<b>Upper Flammable Limit:</b>	UPPER EXPLOSIVE LIMIT: 9.5 %(V)
<b>Decomposition Temperature:</b>	N.D.
<b>Vapor Pressure:</b>	N.D.
<b>Vapor Density:</b>	Heavier than Air
<b>Freezing Temperature:</b>	N.D.
<b>Density:</b>	0.71 g/cm <sup>3</sup> - 5.89 lb/gal

<b>Solubility In Water:</b>	Insoluble
<b>Evaporation Rate:</b>	Faster than n-butylacetate
<b>Percent Volatile:</b>	VOLATILE BY WEIGHT: 97.26 % VOLATILE BY VOLUME: 98.17 %
<b>VOC Content:</b>	CALCULATED: 5.73 lb/gal, 686 g/l
<b>Viscosity:</b>	KINEMATIC: N.D.
<b>Odor Threshold:</b>	N.D.
<b>Octanol Water Partition Coef:</b>	N.D.
<b>Dynamic Viscosity:</b>	N.D.
<b>Note from Section 9:</b>	Typical values, not to be used for specification purposes. MIR VALUE: 1.45 g O3/g Product LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

## Section 10: Stability and Reactivity

### Reactivity:

#### Chemical Stability:

**Chemical Stability:** Product is stable under normal storage conditions.

#### Possibility of hazardous reactions:

**Hazardous Polymerization:** Hazardous polymerization will not occur under normal conditions.

#### Conditions To Avoid:

**Conditions To Avoid:** High temperatures. Sources of ignition.

#### Incompatible Materials:

**Incompatible Materials:** Strong acids, bases, and strong oxidizers.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide

## Section 11: Toxicological Information

### Toxicological Information:

#### Product:

**Sign and Symptoms:** SYMPTOMS: Refer to section 2 of this SDS.

**Carcinogenicity:** Category 2 - Suspected of causing cancer.  
Components contributing to classification: Methyl isobutyl ketone.

**Mutagenicity:** No classification proposed

**Reproductive Toxicity:** Category 2 - Suspected of damaging fertility or the unborn child.  
Components contributing to classification: Cyclohexane.

**Notes from Section 11:** EXPOSURE PATH: Refer to section 2 of this SDS.

#### Cyclohexane:

**Skin Toxicity:** Dermal LD50: Rabbit > 2,000 mg/kg

**Ingestion Toxicity:** Oral LD50: Rat 12,705 mg/kg

**Inhalation Toxicity:** Inhalation LC50: Rat 13.9 mg/l /4 h

#### Methyl-n-propyl ketone:

Skin Toxicity:	Dermal LD50: Rat 6,480 mg/kg
Ingestion Toxicity:	Oral LD50: Rat 1,600 mg/kg
Inhalation Toxicity:	Inhalation LC50: Rat 2000 - 4000 ppm/4 h

**Isobutane:**

Inhalation Toxicity:	Inhalation LC50: Rat 658 mg/l /4 h
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**Propane:**

Inhalation Toxicity:	Inhalation LC50: Rat 658 mg/l /4 h
	Inhalation LC50: Rat >800000 ppm/15 min

**Methyl isobutyl ketone:**

Skin Toxicity:	Dermal LD50: Rabbit 3,000 mg/kg
Ingestion Toxicity:	Oral LD50: Rat 2,080 mg/kg
Inhalation Toxicity:	Inhalation LC50: Rat 8.2 mg/l /4 h

## Section 12: Ecological Information

**Cyclohexane:**

Effect of Material On Aquatic:	Fish: Pimephales promelas 3.96 - 5.18 mg/l96 h flow-through Pimephales promelas 23.03 - 42.07 mg/l96 h Static Lepomis macrochirus 24.99 - 44.69 mg/l96 h Static Poecilia reticulata 48.87 - 68.76 mg/l96 h Static Plants: Desmodemus subspicatus > 500 mg/l72 h
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**Methyl-n-propyl ketone:**

Effect of Material On Aquatic:	Fish: Pimephales promelas 1,190 - 1,290 mg/l96 h flow-through
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**Isobutane:**

Effect of Material On Aquatic:	N.D.
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**Propane:**

Effect of Material On Aquatic:	N.D.
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**Methyl isobutyl ketone:**

Effect of Material On Aquatic:	Fish: Pimephales promelas 496 - 514 mg/l96 h flow-through Invertebrates: Daphnia magna 170 mg/l48 h Plants: Pseudokirchneriella subcapitata 400 mg/l96 h
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**Persistence and degradability:****Product:**

Biodegradation:	Not determined for this product.
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**Bioaccumulative potential:****Product:**

BioAccumulation:	Not determined for this product.
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**Mobility in soil:****Product:**

Mobility In Environmental Media:	Not determined for this product.
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**Notes from Section 12:**

OTHER ADVERSE EFFECTS: Not determined for this product.

**Section 13: Disposal Considerations****Description of waste:**

**Waste Disposal:** Disposal should be done in accordance with Federal (40CFR Part 261), state and local environmental control regulations. If waste is determined to be hazardous, use licensed hazardous waste transporter and disposal facility

**Section 14: Transport Information**

**Transportation:** The listed transportation classification applies to non-bulk shipments. It does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors. For the most accurate shipping information, refer to your transportation/compliance department.

**DOT Shipping Name:** Aerosols

**DOT UN Number:** 1950

**DOT Hazard Class:** 2.1

**DOT Packing Group:** None

**DOT Other:** SECONDARY HAZARD: None  
Emergency Response Guide Number: 126

**IMDG Shipping Name:** Aerosols

**IMDG UN Number:** 1950

**IMDG Hazard Class:** 2

**IMDG Packing Group:** None

**IMDG Other:** HAZARD CLASS: None  
EMS: F-D

**IATA Shipping Name:** Aerosols, flammable

**IATA UN Number:** 1950

**IATA Hazard Class:** 2.1

**IATA Packing Group:** None

**IATA Other:** HAZARD CLASS: None  
EMS: 10L

**Section 15: Regulatory Information****Safety, health and environmental regulations specific for the product:****Regulatory - Product Based:****U.S. FEDERAL REGULATIONS: AS FOLLOWS::**

SARA SECTION 313 This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.

Cyclohexane 110-82-7 55.0 %

Methyl isobutyl ketone 108-10-1 5.0 %

**TOXIC SUBSTANCES CONTROL ACT::**

**INVENTORY STATUS** The chemical substances in this product are on the TSCA Section 8 Inventory.

**EXPORT NOTIFICATION** This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: None

**Section 16: Additional Information**

**Creation Date:** 08/09/2010

**Revision Date:** 2018-07-18 16:39:41

**Notes from Section 16:** Under HazCom 2012 it is optional to continue using the HMIS rating system. It is important to ensure employees have been trained to recognize the different numeric ratings associated with the HazCom 2012 and HMIS schemes.  
\* - Indicates a chronic hazard; see Section 2

**HMIS:**

<b>Health</b>	<b>2*</b>
<b>Flammability</b>	<b>3</b>
<b>Reactivity</b>	<b>2</b>
<b>PPE</b>	

Chronic Health Hazard

**Other Information:**

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