



# MATERIAL SAFETY DATA SHEET

FILE NO.: IQV1  
MSDS DATE: 11/30/2009  
MSDS No.: IQ113009

Product: IQ Glue

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IQ Glue  
PRODUCT CODES: IQOZ10G, IQOZ10P  
COMPANY NAME: SmartAdhesives LLC  
ADDRESS: San Francisco, CA 94129

EMERGENCY PHONE: Chemtrec: 1-800-424-9300

PRODUCT USE: One component elastomeric adhesive (moisture cure)  
ISSUE DATE: 11-30-2009

## SECTION 2: INFORMATION ON INGREDIENTS

<u>HAZARDOUS INGREDIENT:</u>	<u>C.A.S. No.</u>	<u>% by Wt.</u>
Acrylic modified silyl-terminated polyether	trade secret	45-65%
Filler	471-34-1	30-50%
3-Aminopropyltrimethoxysilane	13822-56-5	<10%
Reaction byproduct: Methanol	67-56-1	

## SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Normal physical form - gel or paste

### IMMEDIATE HEALTH AND ENVIRONMENTAL HAZARDS

Product reacts with moisture to cure and gradually generates slight amounts of methanol vapor as a byproduct. Methanol is flammable, and toxic if ingested or inhaled at high concentrations. Methanol is irritating to eyes, skin, and upper respiratory tract.

Avoid contact with eyes. Keep container tightly closed when not in use. Provide adequate ventilation when using this product.

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Uncured product may cause slight irritation

**SKIN CONTACT:** Uncured product or its vapors contacting directly with skin may cause minor irritation.

**INHALATION:** Overexposure to vapors may irritate eyes, nose and throat.

**INGESTION:** Not expected to be ingested under normal conditions of use. Ingestion of large amounts of product may cause gastrointestinal irritation.

### MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE

Preexisting eye and skin disorders

### SIGNS AND SYMPTOMS OF OVEREXPOSURE:

Overexposure to the reaction byproduct, methanol vapor, can cause drowsiness, and may irritate eyes, nose and throat. Symptoms include headache and dizziness.

### CARCINOGENICITY

Acrylic modified silyl-terminated polyether

OSHA: NO

NTP: NO

IARC: NO

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Filler  
3-Aminopropyltrimethoxysilane  
Methanol byproduct

OSHA: NO  
OSHA: NO  
OSHA: NO

NTP: NO  
NTP: NO  
NTP: NO

IARC: NO  
IARC: NO  
IARC: NO

**SECTION 4: FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice immediately.

**SKIN:** Wash skin with mild soap and plenty of warm water. If symptoms occur, seek medical advice.

**INGESTION:** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** If concentrated vapors are inhaled, move to fresh air. If breathing is difficult or symptoms develop, seek medical advice.

**SECTION 5: FIRE FIGHTING MEASURES**

**FLAMMABILITY:** May ignite when exposed to fire conditions.

**FLAMMABLE LIMITS UPPER:** 6% (for Methanol byproduct)  
**(% BY VOLUME) LOWER:** 36% (for Methanol byproduct)

**FLASH POINT:** not applicable for solid product  
**AUTOIGNITION TEMP:** not available

**NFPA HAZARD CLASSIFICATION**

**HEALTH:** 2    **FLAMMABILITY:** 1    **REACTIVITY:** 1    **SPECIFIC HAZARD:** W

**HMIS HAZARD CLASSIFICATION**

**HEALTH:** \*2    **FLAMMABILITY:** 1    **PHYSICAL HAZARD:** 1    **PROTECTION:** C

**EXTINGUISHING MEDIA:** Use dry chemical powder for small fire. For larger fire, use foam, fog, or water spray. Do not use water jet.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Because a fire may produce toxic thermal decomposition, wear positive pressure, self-contained breathing apparatus and protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None

**HAZARDOUS DECOMPOSITION PRODUCTS:**

see Section 10

**SECTION 6: ACCIDENTAL RELEASE MEASURES****ACCIDENTAL RELEASE MEASURES:**

No action shall be taken involving any personal risk or without suitable training. Avoid breathing vapor or mist. Ventilate area. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8). Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

For small spills, put spilled solid in a convenient waste disposal container. For large spills, absorb with inert material (vermiculite, clay, sand, silica gel, universal binder) and dispose in appropriate waste disposal container. Dispose of all material in accordance with Federal, State, and local regulations.

**SECTION 7: HANDLING AND STORAGE**

**HANDLING:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face with soap and water before eating, drinking and smoking.

Avoid contact with eyes and skin. Use with adequate ventilation. Do not ingest. Avoid contact of material with air, water, or moisture.

**STORAGE:** Store in original container in a dry, cool and well-ventilated area, away from sources of heat and ignition. Prevent moisture contact and contaminating product with foreign material. Store in accordance with local regulations.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS**

**VENTILATION :** Use local exhaust ventilation if bulk repackaging or continuous large quantity use, sufficient in pattern and volume, to maintain vapor concentration below established TLV requirements.

**RESPIRATORY PROTECTION:** Use NIOSH approved respirator if there is a potential to exceed exposure limits.

**EYE PROTECTION:** Avoid contact with eyes. Use safety glasses with side shields or indirect vented goggles.

**SKIN PROTECTION:** Avoid contact with skin. Use nitrile, PVA, or butyl rubber gloves.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Facilities storing or utilizing this material should be equipped with eye wash fountains

**EXPOSURE GUIDELINES:**

	<u>Organization</u>	<u>Type</u>	<u>Limit</u>
Methanol (byproduct)	ACGIH (TLV)	TWA	200 ppm (skin)
		STEL	250 ppm
	OSHA (PEL)	TWA	200 ppm
		TWA	260 mg/m <sup>3</sup>

ACGIH: American Conference of Governmental Industrial Hygienists  
 OSHA: Occupational Safety and Health Administration

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**COLOR & APPEARANCE:** white paste or clear gel  
**ODOR THRESHOLD:** slight acrylic  
**PHYSICAL FORM:** paste or gel  
**FLAMMABLE LIMITS**  
**LEL:** not available  
**UEL:** not available

**VAPOR PRESSURE (mmHg):** not available  
**VAPOR DENSITY (AIR=1):** >1  
**SPECIFIC GRAVITY (H2O=1):** 1.39  
**EVAPORATION RATE:** not available

**MELTING POINT:** 1,517°F (825°C)  
**AUTOIGNITION TEMP:** not available  
**FLASH POINT:** not applicable  
 (Pensky-Martens Closed Cup ASTM D 93)

**SOLUBILITY IN WATER:** insoluble  
**VISCOSITY:** paste 100,000 ± 10,000 cP  
**VOLATILE ORGANIC COMPOUNDS (VOC)**

**VOC:** 40.3 g/L  
**VOC less H2O & Exempt Solvent:** 40.3 g/L

**pH AS SUPPLIED:** slightly acidic

**SECTION 10: STABILITY AND REACTIVITY**

**STABILITY:** Product is stable.

**MATERIALS AND CONDITIONS TO AVOID (STABILITY):**

Avoid exposure to air and moisture until ready for use (cures via moisture in air).

Avoid contact with strong oxidizing agents, magnesium, aluminum, fluorine, hydrogen, and acids.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:**

Methanol, calcium oxide, carbon monoxide, and carbon dioxide released during decomposition.

**HAZARDOUS POLYMERIZATION:**None.

**SECTION 11: TOXICOLOGICAL INFORMATION****TOXICOLOGICAL INFORMATION:**

Acrylic modified silyl-terminated polyether  
Acute oral LD50: >2,000 mg/kg (rat)

**Methanol**

A small amount of methanol is a byproduct upon contact of product with water or humid air. Methanol vapor can cause eye and skin irritation and is harmful if inhaled or absorbed through the skin. Methanol may be irritating to upper respiratory tract. Ingestion can cause irreversible injury to nervous system, including causing blindness and even death. Methanol may cause internal organ damage to liver, kidneys, heart and eyes. Methanol absorption through skin can cause central nervous system depression.

**SECTION 12: ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Disposal of this product, solutions and any by-products should at all times comply with Federal, State and local regulations.

**RCRA HAZARD CLASS:** none

**SECTION 14: TRANSPORT INFORMATION****U.S. DEPARTMENT OF TRANSPORTATION (49 CFR)**

**PROPER SHIPPING NAME:** Not a DOT controlled material

**INTERNATIONAL AIR TRANSPORTATION (ICAO/IATA)**

**PROPER SHIPPING NAME:** Not subject to IATA regulations

**WATER TRANSPORTATION (IMO/IMDG)**

**PROPER SHIPPING NAME:** Not subject to IMDG code

**SECTION 15: REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS****TSCA (Toxic Substance Control Act)**

All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

**311/312 HAZARD CATEGORIES:**

Chronic: no      Reactivity: no      Acute: no

**SECTION 313: (Toxic chemicals subject to reporting requirements of that section and 40 CFR part 372 (EPCRA))**

Methanol (as curing byproduct) <3%

**CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION, AND LIABILITY ACT):**

none

**STATE REGULATIONS**

**SECTION 16: OTHER INFORMATION**

**OTHER INFORMATION:**

**HMIS Rating**

<b>Health</b>	<b>*2</b>
<b>Flammability</b>	<b>1</b>
<b>Reactivity</b>	<b>1</b>
<b>Personal Protection</b>	<b>C</b>

**NFPA Rating**

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>1</b>
<b>Reactivity</b>	<b>1</b>
<b>Specific Hazard</b>	<b>W</b>

Main hazard is the curing byproduct, methanol, which occurs when product is exposed to water or moisture in air. Methanol is gradually generated during curing.

**PREPARATION INFORMATION:**

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