

## Safety Data Sheet

### PERMABOND QFS16

Revision Number: 2

Issue date: 05/05/15

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PERMABOND QFS16  
**Product Type:** Accelerator

Telephone: 732-868-1372 or 800-640-7599  
Website: www.permabond.com

**Company:** PERMABOND LLC  
14 Robinson Street  
Pottstown, PA 19464  
USA

Emergency Telephone:

Medical: Poison Control Center 866-827-6282 (toll free)  
or 1-303-389-1109  
Transport: CHEMTREC 800-424-9300

#### 2. HAZARDS IDENTIFICATION

**DANGER:** HIGHLY FLAMMABLE LIQUID AND VAPOR  
MAYBE FATAL IF SWALLOWED AND ENTERS AIRWAYS  
CAUSES SERIOUS EYE IRRITATION  
CAUSES SKIN IRRITATION  
MAY CAUSE DROWSINESS OR DIZZINESS

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	2
EYE IRRITATION	2A
SKIN IRRITATION	2
SPECIFIC TARGET ORGAN TOXICITY- SINGLE EXPOSURE- CENTRAL NERVOUS SYSTEM	3
ASPIRATION HAZARD	1

#### PICTOGRAM(S)



#### Precautionary Statements

**Prevention:** Keep away from heat, sparks, open flames, hot surfaces – No smoking. Keep container tightly closed. Do not release into water. Use explosion proof equipment. Use only non-sparking tools. Take precautionary measures against static discharges. Avoid breathing vapors, mist or spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection and face protection.

**Response:** IF SWALLOWED: Immediately call a physician or a poison control center. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician or a poison control center IF IN EYES: Rinse cautiously with plenty of water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or a physician. IF ON SKIN/HAIR: Immediately remove all contaminated clothing. Rinse with plenty of water. If you feel unwell call a poison control center or a physician. If eye irritation occurs: Get medical attention. If skin irritation occurs: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

**Storage:** Store in a well-ventilated cool place. Keep container tightly closed. Store locked up.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**Disposal:** Dispose of according to Federal, State/Provincial and local governmental regulations.

**See Section 11 for additional toxicological information.**

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	CONCENTRATION (%)*
n-Heptane	142-82-5	60 – 100

\*Exact concentration is a trade secret. Concentration ranges are provided to assist user in determining appropriate protection.

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
<b>Skin contact:</b>	Immediately wash skin with plenty of soap and water. If symptoms develop or persist get medical attention.
<b>Eye contact:</b>	Immediately flush with large amounts of water for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	DO NOT induce vomiting. Get medical attention.
<b>Symptoms:</b>	See section 11
<b>Notes to Physician:</b>	Aspiration may cause pulmonary edema or aspiration pneumonia.

### 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special fire fighting procedures:</b>	Fire fighter should wear positive pressure self-contained breathing apparatus. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.
<b>Unusual fire or explosion hazards:</b>	Vapors may accumulate in low confined areas, travel considerable distance to sources of ignition, and flash back
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection equipment recommended in section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental precautions:** Remove all sources of ignition. Prevent product from entering drains or waterways.

**Clean-up methods:** Ensure adequate ventilation. Contain spillage, if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binders universal binder, saw dust). Store in partially filled closed container until proper disposal. Refer to section 8 (Exposure Controls/ Personal Protection) before clean up.

## 7. HANDLING AND STORAGE

**Handling:** Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor or mist. Keep away from sources of ignition – No smoking. Wash thoroughly after handling

**Storage:** Store in a cool well ventilated area. Keep container closed. Store away from sources of ignition.

For shelf life information contact Permabond customer service at (800)714-0170

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employees should complete an assessment of all workplaces to determine the need for and selection of proper exposure controls and protective equipment before each task is started.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
N-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) PEL	None	None

**Engineering controls:** Local exhaust ventilation is recommended when general ventilation is insufficient to maintain vapor concentrations below established exposure limits.

**Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s). Observe OSHA regulations for respirator use (29 CFR 1910.134)

**Skin protection:** Use chemical resistant impermeable clothing including gloves to prevent skin contact.

**Eye/face protection:** Safety goggles or safety glasses with side shields. Full face protection should be worn if the potential for splashing or spray exists.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Aliphatic
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Vapor pressure:</b>	35 mm Hg (20°C (68°F))
<b>Boiling point/range:</b>	96.1 – 98.9°C (205 -210°F)
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	0.68 at 23.9°C (75°F)
<b>Vapor density:</b>	3.45
<b>Flash point:</b>	-2 °C (28.4°F)
<b>Flammable/Explosive limits – Lower:</b>	1.1%
<b>Flammable/Explosive limits – upper:</b>	6.7%
<b>Autoignition Temperature:</b>	Not available
<b>Evaporation rate:</b>	2.7 (Ether = 1)
<b>Solubility in water:</b>	Not miscible
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>VOC content:</b>	99.9 %, 680 grams/liter (Estimated)

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable when stored under the recommended storage conditions
<b>Hazardous reactions:</b>	Will not occur.
<b>Hazardous decomposition products:</b>	No data
<b>Incompatible materials:</b>	Acids. Oxidizing agents.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition. Contact with incompatible materials.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

### Potential Health Effects/Symptoms

**Inhalation:** May cause dizziness, incoordination, headache, nausea and vomiting.  
**Skin contact:** Causes skin irritation  
**Eye contact:** Causes serious eye irritation.  
**Ingestion:** This product may be fatal if swallowed. Principal hazard of ingestion is aspiration into the lungs and subsequent pneumonitis.

Hazardous components	LD50	LC50	Immediate and delayed Health Effects
n-Heptane	None	LC50-Inhalation (RAT, 4 h) = 103 mg/l	Central Nervous System, Irritant

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
n-Heptane	No	No	No

## 12. ECOLOGICAL INFORMATION

Ecological information: Not Available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of according to Federal, State/Provincial and local governmental regulations. Refer to section 8 (Exposure Controls/Personal Protection) before handling.

## 14. TRANSPORT INFORMATION

### U.S. Department of Transportation Ground (49 CFR):

**Proper shipping name:** Heptanes  
**Hazard class or division:** 3  
**Identification number:** UN 1206  
**Packing group:** II  
**Exceptions:**

### International Air Transportation (ICAO/IATA):

Proper shipping name: Heptanes  
Hazard class or division: 3  
Identification number: UN 1206  
Packing group: II  
Exceptions: May qualify as Consumer Commodity, ID8000. (not more than 500 ml)

### Water Transportation (IMO/IMDG):

Proper shipping name: Heptanes  
Hazard class or division: 3  
Identification number: UN 1206  
Packing group: II  
Exceptions: Limited quantity (not more than 1 L)  
Marine pollutant: Heptanes

## 15. REGULATORY INFORMATION

### United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.  
TSCA 12 (b) Export Notification: None above the reporting limits.  
CERCLA/SARA Section 302 EHS: None above the reporting limits.  
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire  
CERCLA/SARA 313: None above the reporting limits.  
California Proposition 65: No chemical listed on the California Proposition 65 are known to be present.

### Canada Regulatory Information

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Domestic Substances List.

## 16. OTHER INFORMATION

This safety data sheet contains changes from the previous one: New format

Issue date: 05/05/15

ADDITIONAL INFORMATION: The information given and the recommendations made herein apply to our product(s) alone and are not combined with other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guaranty of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.