



Revision Number: 002.0

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** OSI Formula #38 Drywall & Metal Framing Adhesive  
**Product type:** Adhesive  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 1447082 1369185

**Region:** United States

**Contact information:**  
 Telephone: 800.624.7767  
 MEDICAL EMERGENCY Phone: Poison Control Center  
 1-877-671-4608 (toll free) or 1-303-592-1711  
 TRANSPORT EMERGENCY Phone: CHEMTREC  
 1-800-424-9300 (toll free) or 1-703-527-3887

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

<b>Physical state:</b>	Paste	<b>HEALTH:</b>	2
<b>Color:</b>	Tan	<b>FLAMMABILITY:</b>	3
<b>Odor:</b>	Sharp, Solvent	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**WARNING:** FLAMMABLE!  
 VAPOR MAY CAUSE FLASH FIRE.  
 HARMFUL IF SWALLOWED OR INHALED.  
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

**Potential Health Effects**

**Inhalation:** Vapors may cause headaches, nausea, dizziness and respiratory tract irritation. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Prolonged exposure to solvents may cause adverse effects to the liver, urinary, and reproductive systems. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**Skin contact:** Repeated or prolonged skin contact may cause skin irritation and/or dermatitis and sensitisation of susceptible persons.

**Eye contact:** Symptoms can include irritation, redness, scratching of the cornea, and tearing.

**Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Existing conditions aggravated by exposure:** Not available

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

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

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Kaolin	1332-58-7	10 - 30
Limestone	1317-65-3	10 - 30
n-Heptane	142-82-5	10 - 30
Solvent naphtha (petroleum), light aliph., <0.1% Benzol, highly flammable	64742-89-8	10 - 30
Xylenes	1330-20-7	1 - 5
Quartz (SiO <sub>2</sub> )	14808-60-7	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1
Ethylbenzene	100-41-4	0.1 - 1

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapours. Administer oxygen or artificial respiration as needed. Get immediate medical attention.
<b>Skin contact:</b>	Rinse with running water. Apply skin care product. Remove contaminated clothes immediately.
<b>Eye contact:</b>	Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.
<b>Ingestion:</b>	Do not induce vomiting. Get immediate medical attention.

### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	-6.11 °C (21°F) no method
<b>Autoignition temperature:</b>	Not available
<b>Flammable/Explosive limits - lower:</b>	1 %
<b>Flammable/Explosive limits - upper:</b>	6.5 %
<b>Extinguishing media:</b>	carbon dioxide foam Dry chemical. Water spray or fog.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
<b>Unusual fire or explosion hazards:</b>	Closed containers may rupture (due to build up of pressure) when exposed to extreme heat. Vapors are heavier than air and may travel along floor to an ignition source.
<b>Hazardous combustion products:</b>	Oxides of carbon. Carbon dioxide.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.</b>	
<b>Environmental precautions:</b>	Sweep up or gather material and place in appropriate container for disposal. Wash spill area thoroughly. Wear appropriate protective equipment during cleanup. Remove all sources of ignition.
<b>Clean-up methods:</b>	Not available

## 7. HANDLING AND STORAGE

**Handling:**

Keep away from heat, spark and flame. Keep container closed. Do not reuse container. Keep out of the reach of children. Use only with adequate ventilation. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. Keep away from heat, spark and flame. Keep container closed. Do not reuse container. Keep out of the reach of children. Empty containers must not be washed and re-used for any purpose. Never use pressure to empty. Drum is not a pressure vessel. Use only with adequate ventilation.

**Storage:**

For safe storage, store at or above 20 °C (68°F)  
Keep away from heat, spark and flame.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Kaolin	2 mg/m3 TWA Respirable fraction.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) TWA	None	None
Solvent naphtha (petroleum), light aliph., <0.1% Benzol, highly flammable	None	None	None	None
Xylenes	100 ppm TWA 150 ppm STEL	100 ppm (435 mg/m3) TWA	None	None
Quartz (SiO <sub>2</sub> )	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None
Ethylbenzene	20 ppm TWA	100 ppm (435 mg/m3) TWA	None	None

**Engineering controls:**

Use only in well ventilated areas. Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Respiratory protection:**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

**Eye/face protection:**

Wear safety glasses with side shields.

**Skin protection:**

Solvent impermeable gloves are required for repeated or prolonged contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:**

Paste

**Color:**

Tan

**Odor:** Sharp, Solvent  
**Odor threshold:** Not available  
**pH:** Not applicable  
**Vapor pressure:** 29 mm hg (20 °C (68°F))  
**Boiling point/range:** 82.2 - 132.2 °C (180°F - 270°F) (solvent)  
**Melting point/ range:** Not available  
**Specific gravity:** 1.203  
**Vapor density:** Heavier than air.  
**Flash point:** -6.11 °C (21°F) no method  
**Flammable/Explosive limits - lower:** 1 %  
**Flammable/Explosive limits - upper:** 6.5 %  
**Autoignition temperature:** Not available  
**Evaporation rate:** Not available  
**Solubility in water:** Insoluble  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** 30 %; 380 g/l  
**Viscosity:** 600,000 - 1,000,000 mPa.s

## 10. STABILITY AND REACTIVITY

**Stability:** Not available  
**Hazardous reactions:** Will not occur.  
**Hazardous decomposition products:** Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.  
**Incompatible materials:** Strong oxidizing agents.  
**Conditions to avoid:** Keep away from open flames, hot surfaces and sources of ignition.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Kaolin	No	No	No
Limestone	No	No	No
n-Heptane	No	No	No
Solvent naphtha (petroleum), light aliph., <0.1% Benzol, highly flammable	No	No	No
Xylenes	No	No	No
Quartz (SiO <sub>2</sub> )	Known carcinogen.	Group 1	No
Titanium dioxide	No	Group 2B	No
Ethylbenzene	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Kaolin	Nuisance dust
Limestone	Nuisance dust
n-Heptane	Central nervous system, Irritant
Solvent naphtha (petroleum), light aliph., <0.1% Benzol, highly flammable	Irritant
Xylenes	Cardiac, Central nervous system, Irritant, Kidney, Liver
Quartz (SiO <sub>2</sub> )	Immune system, Lung, Some evidence of carcinogenicity
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity
Ethylbenzene	Irritant, Central nervous system

## 12. ECOLOGICAL INFORMATION

**Ecological information:** Not available

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

<b>Recommended method of disposal:</b>	Follow all local, state, federal and provincial regulations for disposal.
<b>Hazardous waste number:</b>	It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

### 14. TRANSPORT INFORMATION

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

<b>Proper shipping name:</b>	Adhesives
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	II
<b>DOT Reportable quantity:</b>	Xylene (mixed)
<b>Exceptions:</b>	Consumer Commodity ORM-D (Not more than 5 L)

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

<b>Proper shipping name:</b>	Adhesives
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	II
<b>Exceptions:</b>	Consumer Commodity, ID 8000, Class 9, (Not more than 5 L)

#### Water Transportation (IMO/IMDG)

<b>Proper shipping name:</b>	ADHESIVES (n-Heptane)
<b>Hazard class or division:</b>	3
<b>Identification number:</b>	UN 1133
<b>Packing group:</b>	II
<b>Marine pollutant:</b>	n-Heptane
<b>Exceptions:</b>	Limited quantity (Not more than 5 L).

### 15. REGULATORY INFORMATION

#### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12(b) Export Notification:</b>	N-Heptane (CAS# 142-82-5).Xylenes (CAS# 1330-20-7).
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health, Fire
<b>CERCLA/SARA 313:</b>	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Xylenes (CAS# 1330-20-7). Ethylbenzene (CAS# 100-41-4).
<b>California Proposition 65:</b>	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

#### Canada Regulatory Information

<b>CEPA DSL/NDSL Status:</b>	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
<b>WHMIS hazard class:</b>	B.2, D.2.A, D.2.B

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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