

# Safety Data Sheet

## HP3405, Epoxy Hardener

SDS Revision Date:

03/23/2015



### 1. Identification

#### 1.1. Product identifier

**Product Identity** HP3405, GPM, TOWER, 6 minute Epoxy Hardener  
**Alternate Names** GPMR6042, GPMR6045, TOWR3806, Epoxy Hardener

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use** See Technical Data Sheet.  
**Application Method** See Technical Data Sheet.

#### 1.3. Details of the supplier of the safety data sheet

**Company Name** Heartland Adhesives, Inc.  
670 Madison St.  
Crown Point, IN 46307

#### Emergency

**CHEMTREC (USA)** (800) 424-9300  
**24 hour Emergency Telephone No.** Chemtrec:  
Within USA & Canada: 1-800-424-9300  
Outside USA & Canada: 1-703-527-3887

**Customer Service:** Heartland Adhesives, Inc.

GPMR6042 PRO EPOXY 6 MIN FORMULA 4 OZ  
GPMR6045 PRO EPOXY 6 MIN FORMULA 9 OZ

### 2. Hazard(s) identification

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2;H315 Causes skin irritation.  
Eye Irrit. 2;H319 Causes serious eye irritation.

#### 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



**Warning**

This is a 2-part SDS - includes Hardener & Resin.

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H315 Causes skin irritation.

H319 Causes serious eye irritation.

### [Prevention]:

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

### [Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P321 Specific treatment (see information on this label).

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

### [Storage]:

No GHS storage statements

### [Disposal]:

No GHS disposal statements

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
2,4,6-Tris(dimethylaminomethyl)phenol CAS Number: 0000090-72-2	10 - 25	Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

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### 4.1. Description of first aid measures

<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
<b>Eyes</b>	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
<b>Ingestion</b>	If swallowed, immediately drink a large quantity of milk or water and call a Physician.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Overview</b>	<p>IRRITANCY: Skin, Eyes</p> <p>SENSITIZING CAPABILITY: May cause skin sensitization.</p> <p>REPRODUCTIVE EFFECTS: None known.</p> <p>CANCER INFORMATION: None known.</p> <p>SHORT-TERM EXPOSURE (ACUTE) INHALATION: Considered slightly toxic by inhalation. Can cause irritation of respiratory tract and nausea. Overexposure may cause delayed lung injury and chemical pneumonia.</p> <p>EYES: Causes eye irritation.</p> <p>SKIN: Causes skin irritation.</p> <p>INGESTION: Harmful if swallowed. Wash thoroughly after handling.</p> <p>REPEATED EXPOSURE (CHRONIC) Dermatitis, chemical pneumonia, allergic reaction.</p> <p>See section 2 for further details.</p>
<b>Eyes</b>	Causes serious eye irritation.
<b>Skin</b>	Causes skin irritation.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

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Carbon Dioxide, Foam, Dry Chemical and Water Fog.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon, oxides of sulfur, oxides of nitrogen, hydrogen sulfide.

### 5.3. Advice for fire-fighters

Cool fire-exposed containers with water. Use self-contained breathing apparatus in confined areas.

ERG Guide No. ----

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Add dry material to absorb spill (if large spill, dike to contain). Using recommended protective equipment, pick up bulk of spill and place in containers for recovery or disposal. Flush area with water to remove residues.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Do not get in eyes, on skin or clothing.

See section 2 for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

Do not store near resinous materials with epoxy functionality. Keep container tightly closed and properly labeled.

See section 2 for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## 8. Exposure controls and personal protection

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### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0000090-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000090-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

### 8.2. Exposure controls

#### Respiratory

Use a NIOSH approved full-face respirator with organic vapor acid gas cartridge when handling this material. Not applicable with local exhaust. A respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant use of a respirator.

#### Eyes

Wear full face shield or chemical safety goggles (ANSI Z87.1).

#### Skin

Wear chemical resistant gloves such as rubber, neoprene or vinyl, and work clothing with full length sleeves.

#### Engineering Controls

Handle product in a well ventilated area. If product is handled in an open system, the use of process enclosures, local exhaust ventilation, and/or other engineering controls should be considered to control airborne levels to below recommended exposure limits, or below acceptable levels where there are no limits.

#### Other Work Practices

Emergency shower and eyewash facility should be in close proximity (ANSI Z358.1). Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

Appearance

White-yellow Liquid

Odor

Mercaptan-like odor

Odor threshold

Not Measured

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pH	Not Measured
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	Not Measured
Flash Point	> 200 F (PMCC)
Evaporation rate (Ether = 1)	Not Measured
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	<b>Lower Explosive Limit:</b> Not Measured <b>Upper Explosive Limit:</b> Not Measured
Vapor pressure (Pa)	Not Measured
Vapor Density	Not Measured
Specific Gravity	1.13 (Water = 1)
Solubility in Water	Negligible
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
VOC Content	0% (EPA Method 24)
Volatiles (% by weight)	0% (at 70 F)
<b>9.2. Other information</b>	
No other relevant information.	

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

oxidizers

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Oxides of carbon, oxides of sulfur, oxides of nitrogen, hydrogen sulfide.

## 11. Toxicological information

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### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
2,4,6-Tris(dimethylaminomethyl)phenol - (90-72-2)	1,200.00, Rat - Category: 4	1,280.00, Rat - Category: 4	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l

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2,4,6-Tris(dimethylaminomethyl)phenol - (90-72-2)	Not Available	Not Available	Not Available
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### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	UN3334
<b>14.2. UN proper shipping name</b>	Aviation regulated liquid, n.o.s., (Mercaptan)
<b>14.3. Transport hazard class(es)</b>	<b>Air Class:</b> Not Applicable Packaging instructions (cargo/passenger): 906
<b>14.4. Packing group</b>	Unknown
<b>14.5. Environmental hazards</b>	
<b>IMDG</b>	Marine Pollutant: No
<b>14.6. Special precautions for user</b>	No further information

Not dangerous goods according to RID/ADR, ADNR, IMDG.

## 15. Regulatory information



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**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification** D2B

**US EPA Tier II Hazards**

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** No

**Immediate (Acute):** Yes

**Delayed (Chronic):** No

### **EPCRA 311/312 Chemicals and RQs:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **EPCRA 302 Extremely Hazardous:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **EPCRA 313 Toxic Chemicals:**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **Proposition 65 - Carcinogens (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **Proposition 65 - Developmental Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **Proposition 65 - Female Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **Proposition 65 - Male Repro Toxins (>0.0%):**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **New Jersey RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

### **Pennsylvania RTK Substances (>1%) :**

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

## 16. Other information

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

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