



**ADHESIVE SYSTEMS, INC.**

## **SAFETY DATA SHEET**

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name: Primer T and Primer N

Product description: Adhesive Primer (Heptane based)

Manufacture: ADHESIVE SYSTEMS, INC  
9405 CORSAIR ROAD  
FRANKFORT, IL 60423

Telephone : 815 464 5606  
Fax : 815 464 5650  
Emergency Phone : 800 255 3924 CHEMTEL INC.  
OUTSIDE USA: 813 248 0585

### **2. HAZARDS IDENTIFICATION**

#### **Emergency Overview**

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

#### **GHS Classification**

Flammable liquids (Category 2)  
Skin irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)  
Aspiration hazard (Category 1)  
Acute Toxicity inhalation (Category 3)  
Acute aquatic toxicity (Category 1)  
Chronic aquatic toxicity (Category 1)

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### **GHS Label elements, including precautionary statements**

Pictogram



Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 Wash skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.  
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
 P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a POISON CENTER or doctor/ physician if you feel unwell.  
 P331 Do NOT induce vomiting.  
 P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
 P362 Take off contaminated clothing and wash before reuse.  
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
 P391 Collect spillage.  
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
 P403 + P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

HMIS Rating Health hazard: 2 Chronic Health Hazard: \* Flammability: 3 Physical Hazard 0

NFPA Rating Health hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>3</sub>H<sub>6</sub>O  
 Molecular Weight : 58.08 g/mol

Component		Concentration
<b>Heptane</b>		
CAS-No.	142-82-5	>90%
<b>Naphthenic copper</b>		
CAS-No.	1338-02-9	</=10%

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#### **4. FIRST AID MEASURES**

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### **If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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#### **5. FIREFIGHTING MEASURES**

##### **Conditions of flammability**

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

##### **Special protective equipment for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

##### **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

##### **Further information**

Use water spray to cool unopened containers.

Flash back possible over considerable distance.

Fight fire remotely due to risk of explosion.

Use water spray to cool unopened containers.

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#### **6. ACCIDENTAL RELEASE MEASURES**

##### **Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

##### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

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#### **7. HANDLING AND STORAGE**

##### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

##### **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in a cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Heptane	142-82-5	TWA	85000ppm 350.00mg/m <sup>3</sup>	USA. NIOSH Recommended exposure limits.
		C	440.00 ppm 1,800.00 mg/m <sup>3</sup>	USA. NIOSH Recommended exposure limits.
Remarks: 15 minute ceiling value.				
		TWA	500.0000 pp 2000.000 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants
Remarks: The value in mg/m <sup>3</sup> is approximate.				
		TWA	400.0000 ppm	USA. ACGIH TLV Threshold Limit Value
Central Nervous System impairment, Upper respiratory tract irritation				
		STEL	500.0000 ppm	USA. ACGIH TLV Threshold Limit Value
Central Nervous System impairment, Upper Respiratory Tract Irritation				
		TWA	400.0000 ppm	USA. ACGIH TLV Threshold Limit Value

### Personal protective equipment

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full Contact  
Material: Nitrile rubber  
Minimum layer thickness: 0.4 mm  
Break through time: > 480 min

Splash protection  
Material: nitrile rubber  
Minimum layer thickness: 0.2mm  
Break through time: > 65in

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### **Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin and body protection**

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves.

### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form	liquid
Color	Amber/greenish

### **Safety data**

pH	no data available
Melting point/freezing point	no data available
Boiling point	98.0 – 99.0 °C (208.4-210.2 °F)
Flash point	-4.0 °C (24.8°F) - closed cup
Relative Density	0.68 g/cm <sup>3</sup>
Autoignition temperature	223.0°C (433.4°F)
Lower explosion limit	1.1%V
Upper explosion limit	7 %(V)

Vapor pressure	110.7 hPa (83.0 mmHg) at 37.7 <sup>0</sup> C (99.9 <sup>0</sup> F) 55.3 hPa (40.0 mmHg) at 20.0 <sup>0</sup> C (68.0 <sup>0</sup> F)
Density	0.791 g/mL at 25 °C (77 °F)
Water solubility	completely miscible
Partition coefficient: n-octanol/water	log Pow: >3.000log Pow:5
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evaporation rate	no data available

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

### Materials to avoid

Strong oxidizing agents.

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - no data available

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity: No data available

#### Inhalation LC50

LC50 Inhalation - rat – 4 h – 103,000 mg/m<sup>3</sup>

Inhalation: irritating to respiratory system.

#### Dermal:

no data available

#### Other information on acute toxicity

no data available

### Skin corrosion/irritation:

no data available

### Serious eye damage/eye irritation

Eyes - rabbit – result: no eye irritation (OECD Test Guideline 405)

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

no data available

### **Carcinogenicity**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

no data available

### **Teratogenicity**

no data available

### **Specific target organ toxicity - single exposure (Globally Harmonized System)**

May cause drowsiness or dizziness.

### **Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

### **Aspiration hazard**

May be fatal if swallowed and enters airways.

### **Potential health effects**

Prolonged or repeated exposure to skin causes defatting and dermatitis, central nervous system depression, narcosis, damage to lungs.

### **Additional Information**

RTECS: MI7700000 Heptane

RTECS: XU5803000 N,N-dimethyl-p-toludine

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## **12. ECOLOGICAL INFORMATION**

### **Toxicity**

Toxicity to fish LC50 - Carassius auratus (goldfish) – 4 mg/l – 24.0 h  
LC50 – Tilapia mossarribica – 375 mg/l – 96.0 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) – 1.50 mg/l – 48 h

### **Persistence and degradability**

Ratio BOD/ThBOD 3.5%

### **Bioaccumulative potential**

Indication of bio accumulation.

### **Mobility in soil**

no data available

### **PBT and vPvB assessment**

no data available

### **Other adverse effects**

Do not empty into drains.

Avoid release to the environment.

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**13. DISPOSAL CONSIDERATIONS****Product**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product.

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**14. TRANSPORT INFORMATION****DOT (US)**

UN number: 1206 Class: 3 Packing group: II  
Proper shipping name: Heptanes  
Reportable Quantity (RQ): 5000 lbs

**IMDG**

UN number: 1206 Class: 3 Packing group: II EMS-No: F-E, S-D  
Proper shipping name: Heptanes  
Marine pollutant: Yes

**IATA**

UN number: 1206 Class: 3 Packing group: II  
Proper shipping name: Heptanes

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**15. REGULATORY INFORMATION****OSHA Hazards**

Flammable liquid, Target Organ Effect, Irritant

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components**

	CAS-No.	Revision Date
Heptane	142-82-5	1993-04-24

**Pennsylvania Right To Know Components**

	CAS-No.	Revision Date
Heptane	142-82-5	1993-04-24

**New Jersey Right To Know Components**

	CAS-No.	Revision Date
Heptane	142-82-5	1993-04-24



## California Prop. 65 Components

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### 16. OTHER INFORMATION

**WARNING:** This product does not contain chemical(s) known to the State of California to cause cancer.

Full text of H-Statements referred to under sections 2 and 3.

Aquatic Acute Acute aquatic toxicity Aquatic Chronic Chronic aquatic toxicity Asp. Tox. Aspiration hazard Flam. Liq. Flammable liquids

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. Skin Irrit. Skin irritation

**NON-WARRANTY:** Information contained herein is based on tests we believe to be reliable and accurate. It is offered in good faith for the benefit of the consumer. Adhesive Systems shall not be liable for any injury, loss, or damage in the use of its chemical products since the conditions of use are beyond our control. In every case we urge and recommend the user conduct tests to determine to their own satisfaction that the product is of acceptable quality and is suitable for their particular purpose under their own operating conditions. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent. Because of changing reporting requirements and other variables it is impossible to guarantee the accuracy of the information contained in this document. It is the responsibility of the user to determine proper personal protection based on the actual condition of use and to comply with all Federal, State, and Local laws and regulations.

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