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	<b>MATERIAL SAFETY DATA SHEET</b>	
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## Part 1. ABS Plastic Bumper

### 1.0 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Bumper – Plastic ABS

Company Distributor: Keystone Automotive Industries  
700 East Bonita Avenue  
Pomona, CA 91767

Company Phone: 1-800-772-5557

Manufactured By: T.Y.G. Products, L.P.  
Phone: 972-542-1828

Product Use: Replacement crash part.

### 2.0 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	% BY WEIGHT
Styrene Acrylonitrille Copolymer, 60% - 80%	9003-54-7	100 %
Styrene Acrylonitrille Butadiene Copolymer, 20% - 60%		

### 3.0 HAZARDS IDENTIFICATION

**Health:**

**LD50 LC50 Mixture:** None specified by manufacturer.

**Routes Of Entry:** Inhalation- Yes, Skin- No, Ingestion- No

**Carcinogenicity:** NTP; No


**IARC:** No

**OSHA:** No

**Hazcom Label:**

**Eye Protection Indicator:** Yes

**Skin Protection Indicator:** Yes

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**Signal Word:** Caution

**Respiratory Protection Indicator:** Yes

**Health Hazard:** None

**Contact Hazard:** None

**Fire Hazard:** Slight

**Reactivity Hazard:** None

#### 4.0 FIRST AID MEASURES

**Eye Contact:** Flush with water for at least 15 minutes.

**Skin Contact:** Wash affected area with soap and water. Remove dirty clothing.

**Inhalation:** Remove from exposure. If breathing stops, begin mouth to mouth.

**Ingestion:** Call Doctor immediately.

#### 5.0 FIRE FIGHTING MEASURES

**Extinguishing Media:** Carbon dioxide, dry chemical, foam, water.

**Fire Fighting Procedures:** Use NIOSH/MSHA approved SCBA and full protective equipment


**Unusual Fire and Explosion Hazards:** Can ignite spontaneously if temperature exceeds 600 F.

#### 6.0 ACCIDENTAL RELEASE MEASURES

None

#### 7.0 HANDLING AND STORAGE

**Spill release procedures:** Sweep up and place in suitable container for disposal.

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**Neutralizing Agent:** None specified by the manufacturer.

**Other precautions:** None specified by the manufacturer.

Open containers only in well-ventilated areas.

## 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

**OSHA PEL:** N/K

**ACGIH TLV :** N/K

**Respiratory Protection:** NIOSH / MSHA approved respirator appropriate for exposure of concern.

**Ventilation:** Local exhaust adequate.

**Protective Gloves:** Impervious gloves (face protection).

**Eye protection:** Safety goggles.

**Other protective equipment:** Eye wash fountain or deluge shower which meet ANSI design criteria.


**Work Hygienic Practices:** Normal personal hygiene.

### Control Measures

**Sanding of Bumpers:** Dust particles may result from sanding the surface of the bumper.

**Respiratory Protection:** Mask over nose and mouth.

**Hand Protection:** None required but light gloves could be used.

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**Drilling into the bumper:** Dust particles may result from drilling the surface of the bumper.

**Respiratory Protection:** Mask over nose and mouth.

**Hand Protection:** None required but light gloves could be used.

**Cutting the bumper:** Dust particles may result from cutting the surface of the bumper.

**Respiratory Protection:** Mask over nose and mouth.

**Hand Protection:** None required but light gloves could be used.

**Supplemental Safety and Health:** None specified by manufacturer.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

<b>HCC:</b>	N1
<b>Color:</b>	Straw to light tan colored slab/chunk
<b>Odor:</b>	Characteristic odor
<b>Specific Gravity (water= 1)</b>	.91-.96
<b>Solubility in Water</b>	NIL


## 10.0 STABILITY AND REACTIVITY

**Stability:** Stable

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide and small amounts of aromatic aliphatic hydrocarbons.

**Hazardous Polymerization Indicator:** No

**Conditions to Avoid Polymerization:** Not relevant

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**Hazardous Decomposition Products:** At temps > 400 F, Carbon monoxide, carbon dioxide, Methylene, Ethylene and small amounts of aliphatic hydrocarbons may be given off.

## 11.0 TOXICOLOGICAL INFORMATION

### Effects of Exposure:

**ACUTE:** No acute effects are known or expected.

Vapors or fumes may be harmful/irritating to the upper respiratory tract.

Prolonged and repeated contact with skin may cause irritation.

**Chronic:** None listed by manufacturer.

**Medical Condition Aggravated By Exposure:** None specified

## 12.0 ECOLOGICAL INFORMATION

No data.

## 13.0 DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** Landfill or incinerate in accordance with federal, state and local regulations. **Handling And Storage Precautions:** store in a dry place away from direct sunlight & direct heat. Keep containers closed to prevent contamination.


## 14.0 TRANSPORT INFORMATION

No data

## 15.0 REGULATORY INFORMATION


No data

## 16.0 OTHER INFORMATION

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Any person utilizing this product and has questions should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding product.

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## Part 2. Primer

### 1.0 CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Primer Gray

Company Distributor: Keystone Automotive Industries  
700 East Bonita Avenue  
Pomona, CA 91767


Company Phone: 1-800-772-5557

Manufactured By: T.Y.G. Products, L.P.  
Phone: 972-542-1828

Product Use: Replacement Crash Part.

### 2.0 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	% BY WEIGHT (w/w)
Toluene	108-88-3	30-40
Xylene	1330-20-7	10-20
Methyl Ethyl Keytone (MEK)	78-93-3	5-10
Light aromatic solvent naphtha (CB-C10)	64742-95-6	1-5
Ethyl Benzene	100-41-4	1-5
Titanium Dioxide	13463-67-7	1-5
1, 2, 4 ~TriMethyl Benzene	95-63-6	1-5
Ethylene glycol monobutyl ether	111-76-2	1-5
Carbon black	1333-86-4	1-5
1, 3, 5 – TriMethyl Benzene	108-67-8	0-1
1, 4 – Dioxane	123-91-1	0-1
Formaldehyde	50-00-0	<0.1
Non-hazardous and other ingredients	N/A	balance

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### 3.0 HAZARDS IDENTIFICATION

**This product is nonhazardous and represents no hazards to health or the environment when used as directed.**

**HMIS Hazard Ratings:** Health = 1, Flammability =0, Chemical Reactivity =0

Note: HMIS ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

#### **Potential Health Effects**

**Eyes:** Dust from sanding can be irritating to the eyes.

**Skin:** None to minimal hazard to the skin

**Inhalation:** Dust from sanding may contain respirable size particles which can be irritating or damaging to the respiratory tract and lungs.

**Ingestion:** Slight irritation to the digestive tract.

### 4.0 FIRST AID MEASURES

**Seek professional medical attention for all over-exposures and /or persistent problems.**


**Eye Contact:** Flush with luke warm water for at least 15 minutes.

**Skin Contact:** Flush wash with copious amounts of luke warm water. Remove contaminated clothing promptly.

**Inhalation:** Remove to fresh air. Restore breathing if required.

**Ingestion:** **DO NOT INDUCE VOMITING.** Seek immediate medical attention.



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## 5.0 FIRE FIGHTING MEASURES

**Flash Point Method:** TCC

**Flash Point Text:** N/A

**Lower Limits:** N/A

**Upper Limits:** N/A

**Extinguishing Media:** Foam, Alcohol Foam, CO<sub>2</sub>, Dry Chemical, and Water Fog.

**Special Firefighting Procedures:** Full fire fighter equipment including SCBA should be worn to avoid skin contact and inhalation of concentrated vapors. Minimize skin exposure. Highly toxic fumes may be generated by thermal decomposition.

**Hazardous Combustion Products:** Carbon Monoxide, Carbon Dioxide, and Oxides of Nitrogen.

**Unusual Fire and Explosion Hazards:** No unusual fire or explosion hazards.

## 6.0 ACCIDENTAL RELEASE MEASURES

Sweep up and transfer to an appropriate container for disposal.

## 7.0 HANDLING AND STORAGE


**Spill release procedures:** None

**Neutralizing Agent:** None specified by the manufacturer.

**Handling and Storage Precautions:** None

**Other precautions:** None specified by the manufacturer.

Open containers only in well-ventilated areas.

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## 8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

**OSHA PEL:** N/K

**ACGIH TLV:** N/K

**Supplemental Data:** Dermatitis on repeated/prolonged exposure to skin. Do not breathe vapors/spray mist. Wear appropriate NIOSH/MSHA approved, PPE fitted respirator during and after application unless air monitoring shows vapor/mist/partical levels are below applicable limits. Follow respirator manufactures directions for respirator use.

**Spill Procedures:** Out of drains, sewers or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

**Other Precautions:** Hazard precautions given in MDS of solution form must be observed.


*Notice: Reports have associated reported and prolonged occupational over exposure.*

**Signs and Symptoms of Overexposure:** Health Hazard; Partical accumulation.

**Respiratory Protection:** Particulate and gas and vapors. In confined areas use NIOSH/MSHA approved air line type respirators/hoods. Respiratory protection may also be necessary in any later manufacture operations in which product may become airborne in form of vapor or dust.

**Ventilation:** Respirators to prevent over exposure. Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of most hazards ingredients below acceptable limits, LEL below stated limits and to remove decomposed products during welding/flame cutting.

**Protective Gloves:** Natural rubber or neoprene.

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**Eye protection:** ANSI approved workers goggles when material is scuffed, sawed or cut and generates dust.

**Other protective equipment:** None

**Work Hygienic Practices:** Wash hands thoroughly before eating and using washroom.

### Control Measures

**Sanding of Bumpers:** Dust particles may result from sanding the surface of the bumper finished in a primer coat.

**Respiratory Protection:** Mask over nose and mouth.

**Hand Protection:** None required but light gloves could be used.

**Drilling into the bumper:** Dust particles may result from drilling the surface of the bumper finished in a primer coat.

**Respiratory Protection:** Mask over nose and mouth.

**Hand Protection:** None required but light gloves could be used.

**Cutting the bumper:** Dust particles may result from cutting the surface of the bumper finished in a primer coat.

**Respiratory Protection:** Mask over nose and mouth.


**Hand Protection:** None required but light gloves could be used.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

<b>HCC:</b>	N1
<b>Color:</b>	Straw to light tan colored slab/chunk
<b>Odor:</b>	Characteristic odor
<b>Specific Gravity (water= 1)</b>	.91-.96
<b>Solubility in Water</b>	NIL

## 10.0 STABILITY AND REACTIVITY

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**Stability:** Stable

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide and small amounts of aromatic aliphatic hydrocarbons.

**Hazardous Polymerization Indicator:** No

**Conditions to Avoid Polymerization:** Not relevant

**Hazardous Decomposition Products:** At temp. > 400 F, Carbon monoxide, carbon dioxide, Methylene, Ethylene and small amounts of aliphatic hydrocarbons may be given off.

#### 11.0 TOXICOLOGICAL INFORMATION

**Effects of Exposure:** Inhalation contents may be harmful.

**Medical Condition Aggravated By Exposure:** None specified

#### 12.0 ECOLOGICAL INFORMATION

No data.

#### 13.0 DISPOSAL CONSIDERATIONS

**Waste Disposal Methods:** None

#### 14.0 TRANSPORT INFORMATION


No data

#### 15.0 REGULATORY INFORMATION

No data

#### 16.0 OTHER INFORMATION

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