

**Section 1: Identification****1.1. Product identifier**

Product form : Substance  
Product Identifier(s) : Wingtack® 86  
Wingtack® 86 Flake  
Wingtack® 86 Pastille  
Wingtack® 86 Molten  
WT 86  
CAS No : 62258-49-5

**1.2. Recommended use of the chemical and restrictions on use**

Use of the substance/mixture : Additive for paints, coatings, inks, adhesives  
Rubbers

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

Total Petrochemicals & Refining USA, Inc.  
Cray Valley Division  
PO Box 674411  
Houston, TX 77267-4411

For non-emergency product information:  
Phone: 713-483-5000 or 1-877-871-2729  
Email: product.stewardship@total.com

**1.4. Emergency telephone number**

Emergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages)  
Total Petrochemicals & Refining USA, Inc.: 1-800-322-3462 (Language: English only)

**Section 2: Hazards identification****2.1. Classification of the substance or mixture****GHS-US classification**

Combustible Dust

**2.2. Label elements****GHS-US labeling**

Signal word (GHS-US) : **Warning**  
Hazard statements (GHS-US) : **If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air**  
Precautionary statements (GHS-US) : Precautionary statement not required.

**2.3. Hazards not otherwise classified**

Other hazards not contributing to the classification : Product can accumulate electrostatic charges that may cause fire by electrical discharges.

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

**2.5. Additional information**

Based on conditions common to industrial workplace use of this product : Contact with skin or eyes with hot material may cause serious thermal burns to skin or eyes. Vapors formed when material is processed at high temperatures may be irritating to the eyes and upper respiratory tract.  
Based on professional judgment, inconclusive testing, or sensitive individuals : Dust or particulates may cause mild respiratory tract and eye irritation. Repeated or prolonged contact may cause slight irritation to the skin.

**Section 3: Composition/Information on ingredients****3.1. Substance**

Chemical name : Benzene, (1-methylethenyl)-, polymer with 2-methyl-2-butene and 1,3-pentadiene

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CAS No : 62258-49-5  
Generic name : Aromatically-modified C5 Petroleum Hydrocarbon Resin

### 3.2. Mixture

Not applicable

## Section 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
First-aid measures after skin contact : Wash with plenty of soap and water. If irritation persists, consult a doctor. Heated Material: For serious burns from heated material, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water. Do not attempt to remove adhered material from skin.  
First-aid measures after eye contact : Obtain medical attention if pain, blinking, tears or redness persist. Immediately flush eyes thoroughly with water for at least 15 minutes.  
First-aid measures after ingestion : Rinse mouth out with water. If necessary seek medical advice.

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

Symptoms/injuries after skin contact : Contact with skin or eyes with hot material may cause serious thermal burns to skin or eyes.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## Section 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.  
Unsuitable extinguishing media : Use of heavy stream of water may spread fire.

### 5.2. Special hazards arising from the chemical

Fire hazard : May form combustible dust concentrations in air. Vapors generated from overheating/melting/decomposition may be flammable and may cause fire/explosion if source of ignition is present.  
Explosion hazard : Potential dust explosion hazard. When dust becomes airborne and is exposed to an ignition source, sufficient combustible/flammable dust may exist to burn in the open or explode if confined. The minimum explosive dust cloud for Wingtack dust was measured to be 0.12 oz/ft<sup>3</sup>.  
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Toxic fumes.

### 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## Section 6: Accidental release measures

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

Emergency procedures for non-emergency personnel : Remove ignition sources. Ensure adequate ventilation. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures for emergency responders : No additional requirement.

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

For containment : Sweep up or vacuum up the product.  
Methods for cleaning up : Dispose of materials or solid residues at an authorized site.

### 6.3. Reference to other sections

See section 8. Exposure controls/personal protection.

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### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Minimize generation of dust. Avoid raising dust clouds. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with heated product to prevent burns. Prevent the build-up of electrostatic charge. Use only non-sparking tools. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. The plastic packaging film used to secure bags of material on pallets can also develop static electricity -- remove packaging film in an area free from ignitable vapors/dust. Refer to the latest edition of the National Fire Protection Association (NFPA) 654 publication, "Standard for the Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries", for complete discussion on dust explosion prevention and control measures. This material may be shipped as a viscous, molten product at elevated temperatures (approximately 204 °C), but below its flashpoint, to facilitate transfer to storage containers or processing vessels. This product has a low glass transition temperature (onset Tg is approximately 95 - 104 °F / 35 - 40 °C), and thus it will remass (turn from free-flowing pellet or flake form into a solid mass) near or above those temperatures. Product may remass during shipping and under normal storage conditions. To prevent remassing, store in a controlled climate below 100 °F/37 °C. Do not double-stack pallets of this product, as pressure can also cause or facilitate remassing. If frozen, allow to warm to room temperature before adding to a process to prevent water condensation from entering the process.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Electrical equipment should conform to the National Electric Code.
- Storage conditions : Keep container tightly closed. Store in a dry, cool area. Flaked forms may degrade by gradual oxidation.
- Storage temperature : < 35 °C

### Section 8: Exposure controls/personal protection

#### 8.1. Occupational Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV, or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Wingtack® 86 (62258-49-5)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (inhalable dust) 3 mg/m <sup>3</sup> (respirable dust)
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable dust)
USA OSHA	Remark (OSHA)	Particulates, not otherwise classified

#### 8.2. Exposure controls

- Appropriate engineering controls : Provide readily accessible eye wash stations and safety showers. Ensure good ventilation of the work station.
- Hand protection : Protective gloves made of rubber or PVC.
- Eye protection : Safety glasses.
- Skin and body protection : Wear fire/flame resistant/retardant clothing. Wear suitable protective clothing.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.

### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- Physical state : Solid
- Appearance : Flakes. Pastilles.
- Color : Pale yellow.
- Odor : Mild.
- Odor threshold : No data available
- pH : Not applicable
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : ~ 225 °C (PMCC)

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Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 6 mm Hg @204°C/400°F
Relative vapor density at 20 °C	: No data available
Relative density	: 0.98
Solubility	: Water: Insoluble
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available

### 9.2. Other information

Explosive properties	: Explosion Index, Kst (bar. m/s) : 200 - 315* Max. Explosive Pressure (Pmax), bar : 8.8*.
Minimum ignition energy	: 1 - 3 mJ *
Softening point	: ~ 87 °C
Additional information	: Data denoted with an asterisk is from a representative product or class of products

## Section 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

### 10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. High temperature. Avoid dust formation. Direct sunlight.

### 10.5. Incompatible materials

Oxidizing agents. Strong acids.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure	: Ingestion. Skin and eye contact.
Acute toxicity	: Not classified Based on available data, the classification criteria are not met
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met Practically non-irritating (rabbit)
Serious eye damage/irritation	: Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitization	: Not classified Based on available data, the classification criteria are not met Does not cause cutaneous sensitization for guinea-pigs
Germ cell mutagenicity	: Not classified Lack of data
Carcinogenicity	: Not classified Lack of data

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Reproductive toxicity	: Not classified Lack of data
Specific target organ toxicity (single exposure)	: Not classified Lack of data
Specific target organ toxicity (repeated exposure)	: Not classified Lack of data
Aspiration hazard	: Not classified Not applicable
Potential Adverse human health effects and symptoms	: Product may cause mild skin irritation. Dust from this product may cause eye irritation. Dust from this product may cause respiratory irritation.

### Section 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods	: Transfer to a safe disposal area in accordance with federal, state, and local regulations.
Waste disposal recommendations	: Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Section 14: Transport information

#### US Transport (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)

Not regulated by US DOT

If shipped as a liquid material at a temperature above 100 °C, this product should be classified for US DOT as: UN 3257, Elevated temperature liquid, n.o.s. (petroleum hydrocarbon resin), 9, PG III

#### Transport by sea (IMDG)

Not regulated by IMDG

#### Air transport (IATA)

Not regulated by IATA

### Section 15: Regulatory information

#### 15.1. US Federal regulations

##### EPA TSCA Status

All components of this product are listed or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

##### SARA Section 313 Supplier Notification

This product contains no toxic chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA Section 311/312 Hazard Classes      Fire hazard

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Export Control Classification Number (ECCN): EAR99 (No License Required)

### 15.2. International regulations

#### CANADA

No additional information available

#### National inventories

##### Benzene, (1-methylethenyl)-, polymer with 2-methyl-2-butene and 1,3-pentadiene (62258-49-5)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on the China Inventory of Existing Chemical Substances (IECSC)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS)

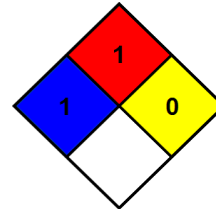
### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below.

## Section 16: Other information

#### NFPA (National Fire Protection Association)

NFPA health hazard : 1  
NFPA fire hazard : 1  
NFPA reactivity : 0



#### HMIS III Rating

Health : 1  
Flammability : 1  
Physical Hazard : 0  
Personal Protection : See section 8 of SDS

#### US OSHA LABEL as specified under 29 CFR §1910.1200 (f)

## Wingtack® 86

Total Petrochemicals & Refining USA, Inc., Cray Valley Division  
PO Box 674411  
Houston, TX 77267-4411 USA  
Tel. 713-483-5000 or 1-877-871-2729

### Warning

If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air

Precautionary statement not required.

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