

# K A U F M A N

PRODUCT  
INFORMATION

KAUFMAN  
PRODUCTS  
INC.

3811 CURTIS  
AVENUE

BALTIMORE,  
MARYLAND  
21226-1131

410-354-8600  
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## Thinfilm 456 (456)

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Revision Date: 04/14/2023 Supersedes: 04/14/2021

Version: 1.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Thinfilm 456 (456)

### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Curing compound

### 1.3. Name, Address, and Telephone of the Responsible Party

#### Company

Kaufman Products, Inc.  
3811 Curtis Avenue  
Baltimore, MD 21226-1131  
410-354-8600

<http://www.kaufmanproducts.net/>

### 1.4. Emergency Telephone Number

**Emergency Number :** 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### Classification (GHS-US)

|                   |      |
|-------------------|------|
| Skin Sens. 1      | H317 |
| STOT SE 1         | H370 |
| Aquatic Acute 2   | H401 |
| Aquatic Chronic 2 | H411 |

### 2.2. Label Elements

#### GHS-US Labeling

##### Hazard Pictograms (GHS-US)

:



GHS07

##### Signal Word (GHS-US)

:

Danger

##### Hazard Statements (GHS-US)

:

H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H351 - Suspected of causing cancer.  
H370 - Causes damage to organs  
H401 - Toxic to aquatic life  
H411 - Toxic to aquatic life with long lasting effects

##### Precautionary Statements (GHS-US)

:

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P260 - Do not breathe mist, spray, vapors

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P261 - Avoid breathing mist, spray, vapors  
 P264 - Wash exposed areas. thoroughly after handling  
 P270 - Do not eat, drink or smoke when using this product  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 P273 - Avoid release to the environment  
 P280 - Wear eye protection, protective clothing, protective gloves  
 P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
 P308+P313 - If exposed or concerned: Get medical advice/attention  
 P321 - Specific treatment (see Section 4)  
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P362+P364 - Take off contaminated clothing and wash it before reuse  
 P391 - Collect spillage  
 P405 - Store locked up  
 P501 - Dispose of contents/container to local, regional, national, and international regulations

### 2.3. Other Hazards

No additional information available

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

### 3.2. Mixture

| Name                                     | Product identifier  | %     | Classification (GHS-US)  |
|--|---------------------|-------|--|
| Water                                    | (CAS No) 7732-18-5  | 30-60 | Not classified   |
| Poly-Alpha-Methyl-Styrene (PAMS) Resin   | (CAS No) 68131-99-7 | 10-40 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  |
| Solvent naphtha (petroleum), light arom. | (CAS No) 64742-95-6 | 7-13  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>STOT SE 3, H336<br>Carcinogen 2, H351<br>Asp. Tox. 1, H304 |
| Titanium Dioxide                         | (CAS No) 13463-67-7 | 5-7   | Comb. Dust H232  |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Get medical advice/attention. Wash contaminated clothing before reuse.

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**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting.

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

**Symptoms/Injuries:** May cause an allergic skin reaction.

**Symptoms/Injuries After Inhalation:** Inhalation of fumes or vapours may cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer. Causes damage to organs through prolonged or repeated exposure.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Alcohol foam, carbon dioxide, dry chemical. Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use water jet. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Product is stable.

### 5.3. Advice for Firefighters

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Collect spillage. Clear up spills immediately and dispose of waste safely.

### 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing vapours, mist, spray.

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**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep container tightly closed.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

**Incompatible Materials:** Heat sources.

**Storage Area:** Store locked up.

#### 7.3. Specific End Use(s) Pigmented Curing compound

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

| Hydrocarbon Resin 68131-87-3 |                                       |                      |
|------------------------------|---------------------------------------|----------------------|
| USA ACGIH                    | ACGIH TWA (ppm)                       | 10 ppm               |
| USA ACGIH                    | ACGIH STEL (ppm)                      | 15 ppm               |
| USA NIOSH                    | NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 50 mg/m <sup>3</sup> |
| USA NIOSH                    | NIOSH REL (TWA) (ppm)                 | 10 ppm               |
| USA NIOSH                    | NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 75 mg/m <sup>3</sup> |
| USA NIOSH                    | NIOSH REL (STEL) (ppm)                | 15 ppm               |
| USA OSHA                     | OSHA PEL (TWA) (mg/m <sup>3</sup> )   | 50 mg/m <sup>3</sup> |
| USA OSHA                     | OSHA PEL (TWA) (ppm)                  | 10 ppm               |

### 8.2. Exposure Controls

**Appropriate Engineering Controls**

: Ensure all national/local regulations are observed.

**Personal Protective Equipment**

: Gloves. Protective clothing. In case of splash hazard: safety glasses.



**Materials for Protective Clothing**

: Chemically resistant materials and fabrics.

**Hand Protection**

: Wear chemically resistant protective gloves.

**Eye Protection**

: In case of splash hazard: chemical goggles or safety glasses.

**Skin and Body Protection**

: Wear suitable protective clothing.

**Respiratory Protection**

: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

**Other Information**

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State**

: Liquid

**Appearance**

: Milky white.

**Odor**

: Distinctive.

**Odor Threshold**

: No data available

**pH**

: No data available

**Relative Evaporation Rate (butylacetate=1)**

: No data available

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|                                     |  |
|-------------------------------------|--|
| Relative evaporation rate (ether=1) | : Slower than ether                              |
| Melting Point                       | : No data available                              |
| Freezing Point                      | : No data available                              |
| Boiling Point                       | : 100 °C (212 °F)                                |
| Flash Point                         | : No data available                              |
| Auto-ignition Temperature           | : No data available                              |
| Decomposition Temperature           | : No data available                              |
| Flammability (solid, gas)           | : No data available                              |
| Vapor Pressure                      | : No data available                              |
| Relative Vapor Density at 20 °C     | : Heavier than air                               |
| Relative Density                    | : No data available                              |
| Specific Gravity                    | : 1.02   |
| Solubility                          | : Water: Partial. Dilution will reduce stability |
| Log Pow                             | : No data available                              |
| Log Kow                             | : No data available                              |
| Viscosity, Kinematic                | : No data available                              |
| Viscosity, Dynamic                  | : No data available                              |
| Explosive Properties                | : No data available                              |
| Oxidizing Properties                | : No data available                              |
| Explosive Limits                    | : Not applicable                                 |

### 9.2. Other Information

VOC content : < 251 g/l

## SECTION 10: STABILITY AND REACTIVITY

- 10.1 **Reactivity:** Product is stable.
- 10.2 **Chemical Stability:** Product is stable.
- 10.3 **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4 **Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.
- 10.5 **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.
- 10.6 **Hazardous Decomposition Products:** Carbon oxides (CO, CO2).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

|   |               |
|---|---------------|
| <b>Water (7732-18-5)</b>  |               |
| LD50 Oral Rat   | > 90000 mg/kg |
| <b>Titanium dioxide (13463-67-7)</b>                            |               |
| LD50 Oral Rat   | >10000 mg/kg  |
| <b>Solvent naphtha (petroleum), light aromatic (64742-95-6)</b> |               |

**Skin Corrosion/Irritation:** Irritating to skin.

**Serious Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

**Germ Cell Mutagenicity:** Not classified

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**Carcinogenicity:** Possibly carcinogenic to humans.

|  |   |
|--|---|
| <b>Solvent naphtha (petroleum), light aroatic (64742-95-6)</b> |   |
| IARC   | Group 2B: Possibly carcinogenic to humans |

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Central nervous system.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Inhalation of fumes or vapours may cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause an allergic skin reaction.

**Symptoms/Injuries After Eye Contact:** May cause eye irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** May cause cancer. Causes damage to organs through prolonged or repeated exposure.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Toxic to aquatic life with long lasting effects.

|  |  |
|--|--|
| <b>Solvent naphtha (petroleum), light aroatic (64742-95-6)</b> |  |
| LC50 Fish 1  | 10 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)               |
| EC50 Daphnia 1   | 4.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)                    |
| EC50 Other Aquatic Organisms 1                                 | 3.71 mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata) |

### 12.2. Persistence and Degradability

|                                      |  |
|--------------------------------------|--|
| <b>Thinfilm 456 (456)</b>            |  |
| <b>Persistence and Degradability</b> | Not established. May cause long-term adverse effects in the environment. |

### 12.3. Bioaccumulative Potential

|                                  |                  |
|----------------------------------|------------------|
| <b>Thinfilm 456 (456)</b>        |                  |
| <b>Bioaccumulative Potential</b> | Not established. |

|  |                                |
|--|--------------------------------|
| <b>Solvent naphtha (petroleum), light aroatic (64742-95-6)</b> |                                |
| BCF fish 1   | (low bioaccumulation expected) |

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

**14.1 In Accordance with DOT** Not regulated for transport

**14.2 In Accordance with IMDG** Not regulated for transport

**14.3 In Accordance with IATA** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

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#### Solvent naphtha (petroleum), light aroatic (64742-95-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2 US State Regulations

#### Solvent naphtha (petroleum), light aroatic (64742-95-6)

U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

## SECTION 16: OTHER INFORMATION

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

|                                  |  |
|----------------------------------|--|
| Acute Tox. 3 (Dermal)            | Acute toxicity (dermal) Category 3                               |
| Acute Tox. 3 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 3                    |
| Acute Tox. 3 (Oral)              | Acute toxicity (oral) Category 3                                 |
| Acute Tox. 4 (Dermal)            | Acute toxicity (dermal) Category 4                               |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4                    |
| Acute Tox. 4 (Oral)              | Acute toxicity (oral) Category 4                                 |
| Aquatic Acute 1                  | Hazardous to the aquatic environment - Acute Hazard Category 1   |
| Aquatic Acute 2                  | Hazardous to the aquatic environment - Acute Hazard Category 2   |
| Aquatic Acute 3                  | Hazardous to the aquatic environment - Acute Hazard Category 3   |
| Aquatic Chronic 1                | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2                | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Asp. Tox. 1                      | Aspiration hazard Category 1                                     |
| Flam. Liq. 2                     | Flammable liquids Category 2                                     |
| Flam. Liq. 3                     | Flammable liquids Category 3                                     |
| Skin Corr. 1B                    | Skin corrosion/irritation Category 1B                            |
| Skin Irrit. 2                    | Skin corrosion/irritation Category 2                             |
| Skin Sens. 1                     | Skin sensitization Category 1                                    |
| STOT SE 1                        | Specific target organ toxicity (single exposure) Category 1      |
| STOT SE 3                        | Specific target organ toxicity (single exposure) Category 3      |
| H225                             | Highly flammable liquid and vapor                                |
| H226                             | Flammable liquid and vapor                                       |
| H301                             | Toxic if swallowed   |
| H302                             | Harmful if swallowed   |
| H304                             | May be fatal if swallowed and enters airways                     |
| H311                             | Toxic in contact with skin                                       |
| H312                             | Harmful in contact with skin                                     |

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|      |  |
|------|--|
| H314 | Causes severe skin burns and eye damage              |
| H315 | Causes skin irritation                               |
| H317 | May cause an allergic skin reaction                  |
| H331 | Toxic if inhaled                                     |
| H332 | Harmful if inhaled                                   |
| H336 | May cause drowsiness or dizziness                    |
| H351 | Suspected of causing cancer                          |
| H370 | Causes damage to organs                              |
| H400 | Very toxic to aquatic life                           |
| H401 | Toxic to aquatic life                                |
| H402 | Harmful to aquatic life                              |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects      |

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