



## SAFETY DATA SHEET

Conforms to the requirements of the United States Hazard Communication regulation 29 CFR 1910.1200

### SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME	ASFIER HP135
PRODUCT CASRN	Confidential
PRODUCT DESCRIPTION	FATTY POLYAMINES
SDS DOCUMENT No.	S03015
RECOMMENDED USES	This product is intended for use as a processing additive in asphalt formulations.

#### RESPONSIBLE PARTY

Kao Specialties Americas LLC  
243 Woodbine Street  
P. O. Box 2316  
High Point, NC 27261  
Telephone: 1-800-727-2214

Refer to SECTION 16 for information regarding the  
MANUFACTURER(s) of this product

**FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.**

### SECTION 2: HAZARD(S) IDENTIFICATION

#### PRODUCT CLASSIFICATION per 29 CFR 1910.1200

HAZARD CLASSIFICATION	Skin Corrosion/Irritation Category 1C Serious Eye Damage/Eye Irritation Category 1 Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2 Acute Toxicity - Oral Category 4
SIGNAL WORD	Danger
HAZARD STATEMENTS	Harmful if swallowed. Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure.

**HAZARD  
PICTOGRAMS****RECOMMENDED SAFETY PRECAUTIONS****INJURY PREVENTION**

Do not breathe dust/fume/gas/mist/vapours/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear chemical-resistant gloves and clothing, eye protection and face protection.

**EMERGENCY  
RESPONSE**

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Get medical advice/attention if you feel unwell.  
Wash contaminated clothing before reuse.

**PRODUCT STORAGE**

Store locked up.

**PRODUCT DISPOSAL**

Dispose of contents and container in accordance with local, national, and international regulations for hazardous wastes.

**HAZARDS NOT OTHERWISE CLASSIFIED****PYROPHORIC GASES**

Not applicable

**SIMPLE  
ASPHYXIANTS**

Not applicable

**COMBUSTIBLE DUST**

Not applicable

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Not Applicable					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 *Combustible Dust National Emphasis Program (reissued)* March 11, 2008, Appendix E, Section 5

**Other Known  
Hazards**

None

**FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW**

### SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration (%)
Confidential	Polyamines, tallow alkyl, substituted	Confidential	Confidential

If any items in the table above are described as CONFIDENTIAL, Kao Specialties Americas LLC considers this information to constitute a Trade Secret.

### SECTION 4: FIRST-AID MEASURES

#### EYES

Flush immediately with water for at least 15 minutes. Do not rub eyes. Remove contact lens immediately, if present and easy to remove. SEEK IMMEDIATE MEDICAL ATTENTION ONCE THE EXPOSED PERSON IS SAFE TO TRANSPORT.

#### SKIN

Immediately take off all contaminated clothing. For small exposure, wash affected area with 2% acetic acid solution until the slimy feeling disappears. Follow acid wash with flushing the exposed area with copious amount of water. For large exposure, use safety shower to flush the affected area with heavy flow of water. SEEK MEDICAL ATTENTION IMMEDIATELY. If medical attention is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222).

#### INGESTION

If the material is swallowed, get immediate medical attention or advice.

#### INHALATION

If inhaled, immediately remove the affected person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If symptoms persist, get medical attention.

#### SYMPTOMS of EXPOSURE

Skin contact: exposure to this product will result in rash and irritation. Deep-tissue chemical burn will develop slowly over a period of hours if the material is not promptly removed from the affected area.  
Eyes: symptoms include itching, burning, redness and tearing.

#### NOTES to PHYSICIAN

Provide general supportive measures and treat symptomatically.

### SECTION 5: FIRE-FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Refer to SECTION 9: Physical and Chemical Properties

#### HAZARDOUS PRODUCTS of COMBUSTION

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product may yield poisonous gases including oxides of nitrogen, hydrogen gas and ammonia.

**PROPERTIES THAT  
COULD INCREASE  
FIRE or EXPLOSION  
HAZARD**

Vapors can travel to a source of ignition and flash back.

**EXTINGUISHING  
MEDIA**

Powder, alcohol-resistant foam, CO2 & sand

**FIRE-FIGHTING  
INSTRUCTIONS**

Firefighters should wear full protective clothing including self contained breathing apparatus.

**NFPA ratings are found in SECTION 16**

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.**

**RESPONSE TO SMALL SPILLS OF PRODUCT**

**SPILL CONTAINMENT**

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.

**SPILL CLEANUP  
PROCEDURES**

Wear appropriate protective equipment and clothing during clean-up. Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for disposal.

**REQUIRED  
EQUIPMENT**

Shovel the material into waste container.

**ADDITIONAL  
INFORMATION**

No other spill procedures necessary.

**RESPONSE TO LARGE SPILLS OF PRODUCT**

**SPILL CONTAINMENT**

Dike the spilled material, where this is possible. Stop source of leak if possible. Prevent liquid from entering sewers. Keep out of drains and water courses.

**SPILL CLEANUP  
PROCEDURES**

Ventilate the contaminated area. Absorb spill with inert material. Shovel material into appropriate container for disposal. Wear appropriate protective equipment and clothing during clean-up. Thoroughly wash the area with water after a spill or leak clean-up. For very large spills, activate company or local HAZMAT emergency response. Use of properly trained remediation company may be required to safely collect the spilled product.

**REQUIRED  
EQUIPMENT**

No additional information on equipment.

**ADDITIONAL  
INFORMATION**

No other spill procedures necessary.

## SECTION 7: HANDLING AND STORAGE

### HANDLING REQUIREMENTS

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Use this product with adequate ventilation. Use a NIOSH-approved respirator if exposed to oil mist, and adequate ventilation is not available. Avoid getting this material into contact with your skin and eyes.

### STORAGE REQUIREMENTS

Keep the container tightly closed and in a cool, well-ventilated place. Do not mix storage with incompatible materials. Store containers away from acids and strong oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### ENGINEERING CONTROLS

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

#### EYE/FACE PROTECTION

If handling procedure does not require respiratory protection, chemical splash goggles and full-face shield are recommended when handling this product.

#### HAND PROTECTION

Impervious gloves should be used at all times when handling this product.

#### SKIN PROTECTION

Use of protective coveralls and long sleeves is recommended. Impervious gloves should be used at all times when handling this product.

#### RESPIRATORY PROTECTION

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.

### EXPOSURE LIMITS

CHEMICAL	CASRN	PERCENT	LIMITS	AGENCY
OSHA: No exposure limits established for this product				
ACGIH: No exposure limits established for this product				

## SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	Clear yellow to amber liquid	ODOR	Amine odor
ODOR THRESHOLD	No data available	pH	8.0-11.0
VAPOR DENSITY	No data available	VAPOR PRESSURE	<0.1 TORR @ 20°C

<b>EVAPORATION RATE</b>	No data available	<b>RELATIVE DENSITY</b>	0.92g/mL @ 20°C
<b>MELTING POINT (°C)</b>	No data available	<b>WATER SOLUBILITY</b>	Miscible
<b>INITIAL BOILING POINT (°C)</b>	No data available	<b>BOILING RANGE (°C)</b>	No data available
<b>PARTITION COEFFICIENT (N-OCTANOL/WATER)</b>	No data available	<b>VISCOSITY</b>	No data available
<b>DECOMPOSITION TEMPERATURE</b>	No data available	<b>FLAMMABILITY CLASSIFICATION</b>	CLASS IIIB
<b>FLASH POINT (°C)</b>	>93°C PENSKE-MARTENS CLOSED CUP	<b>AUTO-IGNITION TEMPERATURE</b>	No data available
<b>UPPER EXPLOSIVE LIMIT</b>	No data available	<b>LOWER EXPLOSIVE LIMIT</b>	No data available

## SECTION 10: STABILITY and REACTIVITY

<b>CHEMICAL STABILITY</b>	Stable under normal conditions.
<b>CONDITIONS to AVOID</b>	Use suitable technology and/or best work practices to prevent or minimize air emissions of this product.
<b>INCOMPATIBLE MATERIALS (Reactivity)</b>	This product reacts with acids.
<b>INCOMPATIBLE MATERIALS (Storage &amp; Transport)</b>	Avoid contact with acids, acid anhydrides, oxidizing agents, copper and copper alloys.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	None known.
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur.

## SECTION 11: TOXICOLOGICAL INFORMATION

### **ACUTE EFFECTS**

<b>EYE EFFECTS</b>	Risk of serious damage to eyes.
<b>SKIN EFFECTS</b>	Contact with material will cause deep tissue burns unless promptly removed. Material is readily absorbed into the skin, resulting in deep burns several hours after initial exposure.
<b>ACUTE ORAL EFFECTS (INGESTION)</b>	Ingestion of this product will result in corrosion and severe chemical burns to the mouth and upper gastrointestinal tract
<b>ACUTE INHALATION EFFECTS</b>	This product is harmful by inhalation.
<b>TARGET ORGANS</b>	No known effects.

### **CHRONIC EFFECTS**

<b>MUTAGENICITY</b>	No information available
<b>TERATOLOGY</b>	No data available for this product.
<b>REPRODUCTIVE and DEVELOPMENTAL TOXICITY</b>	No information available.

### **CARCINOGENICITY**

<b>CHEMICAL NAME</b>	<b>DATA</b>	<b>AGENCY</b>	<b>LIST</b>
None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists.			
None of the components of this product are listed on the ACGIH Carcinogens List.			
No limits established for this product by the International Agency for Research on Cancer (IARC).			
None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.			

### **LETHAL DOSE (LD50 & LC50) DATA**

<b>LD50 ORAL</b>	No information available
<b>LD50 DERMAL</b>	No information available
<b>LC50 INHALATION</b>	No information available
<b>MEDICAL CONDITIONS AGGRAVATED by EXPOSURE</b>	No information available.

**ROUTES of ENTRY**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

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**SECTION 12: ECOLOGICAL INFORMATION**

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**UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION****AQUATIC TOXICITY  
CLASSIFICATION**

Acute 1  
Chronic 1

**SIGNAL WORD**

Warning

**HAZARD  
PICTOGRAM****HAZARD STATEMENT**

Very toxic to aquatic life.  
Very toxic to aquatic life with long lasting effects.

**PREVENTION**

Avoid release to the environment.

**RESPONSE**

Collect spillage.

**DISPOSAL**

Dispose of contents and container in accordance with local, national, and international regulations for hazardous wastes.

**ADDITIONAL ENVIRONMENTAL INFORMATION****ECOTOXICITY  
INFORMATION**

None determined

**ENVIRONMENTAL  
FATE**

No data available for this product.

**BIOLOGICAL  
OXYGEN DEMAND  
(BOD<sub>5</sub>), g/g**

No data available

**CHEMICAL OXYGEN  
DEMAND (COD), g/g**

No data available

**PERSISTENCE &  
DEGRADABILITY**

No information available.



**BIOACCUMULATION** | No information available

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>WASTE DESCRIPTION</b>	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
<b>GENERAL DISPOSAL CONSIDERATIONS</b>	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
<b>DISPOSAL of EMPTY CONTAINERS</b>	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

RCRA COMPONENT	CASRN	DATA
No limits established for this product.		

## SECTION 14: TRANSPORT INFORMATION

	US DOT	IATA	IMDG
<b>UN NUMBER</b>	UN2735	UN2735	UN2735
<b>UN PROPER SHIPPING NAME</b>	Polyamines, liquid corrosive, n.o.s.	Polyamines, liquid corrosive, n.o.s.	Polyamines, liquid corrosive, n.o.s.
<b>TECHNICAL NAME</b>	containing tallow amines	containing tallow amines	containing tallow amines
<b>TRANSPORT HAZARD CLASS(ES)</b>	8	8	8
<b>PACKING GROUP</b>	III	III	III

<b>REPORTABLE QUANTITY (RQ)</b>	No reportable quantity for this product
<b>EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE</b>	153
<b>MARINE POLLUTANT</b>	MARINE POLLUTANT

## SECTION 15: REGULATORY INFORMATION

**TOXIC SUBSTANCES  
CONTROL ACT  
(TSCA)**

This product is listed on the U.S. EPA TSCA Inventory.

**EXPORT  
NOTIFICATIONS**

This product is not subject to TSCA 12B Export Notification requirements.

**SIGNIFICANT NEW  
USE RULE (SNUR)**

This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.

**INTERNATIONAL CHEMICAL INVENTORIES**

All of the components of this product are listed on the following inventories:

<b>DSL</b>	Canada	Yes	
<b>NDSL</b>	Canada	No	
<b>ENCS</b>	Japan	Yes	
<b>EINECS</b>	Europe	Yes	polymer
<b>ELINCS</b>	Europe	No	
<b>IECSC</b>	China	Yes	
<b>PICCS</b>	Philippines	Yes	
<b>ECL</b>	Korea	Yes	
<b>AICS</b>	Australia	Yes	
<b>TCSI</b>	Taiwan	Yes	

**EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA)  
40 CFR PART 355, APPENDIX A**

<b>EHS COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>TPQ POUNDS and RQ</b>
No limits established for this product.			
<b>313 COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
No limits established for this product.			
<b>CERCLA/SARA COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
No limits established for this product.			

**EPCRA SECTION  
311/312  
CLASSIFICATION**

<b>ACUTE</b>	Yes
<b>CHRONIC</b>	Yes
<b>FIRE</b>	No
<b>PRESSURE</b>	No
<b>REACTIVE</b>	No

## OTHER FEDERAL REGULATIONS

The following components are identified under the Clean Air Act HON-Rule for SOCM chemicals:

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act (VOCs in SOCM chemicals):

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP)

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Water Act:

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

## STATE RIGHT-TO-KNOW INFORMATION:

COMPONENT NAME	CASRN	STATE	List Name
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*If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.*

## CALIFORNIA SAFE WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)

COMPONENT NAME	CASRN	CONCENTRATION <sup>‡</sup>	LIST DATA
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This product contains no components which are listed on California's Proposition 65 lists.

<sup>‡</sup> CONCENTRATIONS EXPRESSED IN % UNLESS UNITS ARE SPECIFIED

## SECTION 16: OTHER INFORMATION

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

<b>SDS GENERATED BY</b>	PSIMCOX
<b>SDS VERSION DATE</b>	6/6/2016 4:04:03 PM
<b>SDS APPROVED BY</b>	Patrick B. Simcox Manager – Health, Safety, & Environmental e-mail: psimcox@ksallc.com

<b>MANUFACTURER(S)</b>	Kao Specialties Americas LLC 243 Woodbine Street P. O. Box 2316 High Point, NC 27261 Telephone: 1-800-727-2214
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**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS**

<b>HEALTH</b>	3
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0

**Hazardous Material Identification System (HMIS) Hazard Ratings**

<b>HEALTH</b>	3
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0
<b>PERSONAL PROTECTION</b>	D

The following components of this product are listed on the Canadian WHMIS Ingredient Disclosure List (IDL):

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
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No regulatory limits established for this product.

**END OF DOCUMENT**