Telephone: 1-800-727-2214



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 PRODUCT CASRN PRODUCT DESCRIPTION SDS DOCUMENT No. RECOMMENDED USES	KAOLIZER P200 134900-46-2 POLYTERTIARY AMINE GLYCOL K02287 Product is intended for use as a raw material in chemical manufacturing	
RESPONSIBLE PARTY Kao Specialties Americas LLC 243 Woodbine Street P. O. Box 2316 High Point, NC 27261	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	Substance or mixture corrosive to metals Category 1 Skin Corrosion/Irritation Category 1C Serious Eye Damage/Eye Irritation Category 1 Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2
SIGNAL WORD	Danger
HAZARD STATEMENTS	May be corrosive to metals. Causes severe skin burns and eye damage. May cause damage to organs through prolonged or repeated exposure (digestive tract)



RECOMMENDED SAFETY PRECAUTIONS

HAZARD PICTOGRAMS

INJURY PREVENTION	Keep only in original container. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Wear chemical-resistant gloves and clothing, eye protection and face protection.
EMERGENCY RESPONSE	 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. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
PRODUCT STORAGE	Store locked up. Store in corrosive resistant container with a resistant inner liner.
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 (%)
1,6-Hexanediol, polymer with Methanamine	1,6-HEXANEDIOL, POLYMER WITH METHANAMINE	134900-46-2	~ 100

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	Remove contact lens immediately, if present and easy to remove. Flush eyes immediately with large amounts of water. SEEK IMMEDIATE MEDICAL ATTENTION ONCE THE EXPOSED PERSON IS SAFE TO TRANSPORT.
SKIN	Immediately take off all contaminated clothing. Use emergency shower or other clean water source to flush affected area with copius quantities 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. Do not induce vomiting unless directed to do so by medical personnel.
INHALATION	Move person to non-contaminated air. Seek medical attention.
SYMPTOMS of EXPOSURE	None known.
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	Decomposition products include ammonia, carbon monoxide, carbon dioxide and oxides of nitrogen.
PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD	No known hazards.
EXTINGUISHING MEDIA	Powder, alcohol-resistant foam, CO2 & sand

FIRE-FIGHTINGFirefighters should wear full protective clothing including self contained breathingINSTRUCTIONSapparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

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	Dike the spilled material, where this is possible.
SPILL CLEANUP PROCEDURES	Collect the spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.
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. Block any potential routes to water systems.
SPILL CLEANUP PROCEDURES	Absorb spill with inert material. Shovel material into appropriate container for disposal. Thoroughly wash the area with water after a spill or leak clean-up. Dispose of spent absorbent in an approved industrial waste landfill.
REQUIRED EQUIPMENT	Wear appropriate protective equipment and clothing during clean-up.
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. Avoid contact with skin and eyes. Wash thoroughly after handling. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION	Wear chemical goggles and face shield.
HAND PROTECTION	Use impervious gloves.
SKIN PROTECTION	Normal work clothing (long sleeved shirts and long pants) is recommended.
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.
OTHER	Eyewash fountains and emergency showers are required.

EXPOSURE LIMITS

СН	EMICAL	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 Pale yellow to dark brown liquid	ODOR Amine odor	
ODOR THRESHOLD No data available	pH 11.5 (5% in ethyl alcohol)	
VAPOR DENSITY 20 @ 25°C	VAPOR PRESSURE 0.75mmHg @ 60°C	
EVAPORATION RATE No data available	RELATIVE 0.93g/mL @ 20°C DENSITY	
MELTING POINT (°C) -30°C	WATER Insoluble in water	
INITIAL BOILING POINT (°C) No data available	BOILING RANGE No data available	

Product: KAOLIZER P200 SDS ID: K02287 Effective Date: 06-01-2015 Created Date: 09-24-2002

PARTITION COEFFICIENT (N- OCTANOL/WATER)	No data available	VISCOSITY	600 mPa.s @ 40ºC 200 mPa.s @ 60ºC 85 mPa.s @ 80ºC
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB
FLASH POINT (°C)	290°C Cleveland Open Cup	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available
OTHER DATA	Density: 0.914g/mL @ 40°C Density: 0.900g/mL @ 60°C		

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions.
CONDITIONS to AVOID	Avoid contact with acids.
INCOMPATIBLE MATERIALS (Reactivity)	None known.
INCOMPATIBLE MATERIALS (Storage & Transport)	No information available.
HAZARDOUS DECOMPOSITION PRODUCTS	None known.
HAZARDOUS POLYMERIZATION	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

EYE EFFECTS	This product causes eye burns. Symptoms may include stinging, tearing, redness,
	swelling, and blurred vision.

SKIN EFFECTS

Can cause chemical burn.

ACUTE ORAL EFFECTS (INGESTION)	This product is harmful if swallowed. This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.
ACUTE INHALATION EFFECTS	This product is irritating to the respiratory system. Inhalation of mists or vapors may produce upper airway edema, wheezing, pulmonary edema, pneumonitis and respiratory failure.
TARGET ORGANS	No known effects.
CHRONIC EFFECTS	Ames Test TA98, TA100, TA1535, TA1537, WP2uvrA: Negative
MUTAGENCITY	Chromosomal aberration test (CHL cells): (Absence of S9 mix): Negative Chromosomal aberration test (CHL cells): (Presence of S9 mix: D20=1.079 mg/kg): Positive Micronucleus test: Negative
TERATOLOGY	No data available for this product.
REPRODUCTIVE and DEVELOPMENTAL TOXICITY	No information available.

CARCINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
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

LD50 ORAL	LD50 Oral Rat > 2000 mg/kg	
MEDICAL CONDITIONS AGGRAVATED by EXPOSURE	No information available.	
ROUTES of ENTRY	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.	
OTHER TOXICOLOGICAL INFORMATION	Specific Target Organ Toxicity (Repeated): Rat, 28 days repeated oral toxicity test: NOEL = 100mg/kg/day (male); 20mg/kg/day (female)	

Product: KAOLIZER P200 SDS ID: K02287 Effective Date: 06-01-2015 Created Date: 09-24-2002

SECTION 12: ECOLOGICAL INFORMATION

<u></u>			
AQUATIC TOXICITY	Acute 1		
CLASSIFICATION	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.		

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

ADDITIONAL ENVIRONMENTAL INFORMATION

AQUATIC TOXICITY	48 hr LC50 Red Killfish : 1.08 mg/L
ECOTOX. INFORMATION	This material is expected to be harmful to aquatic life. Prevent discharges to natural bodies of water.
ENVIRONMENTAL FATE	Material is poorly biodegradable
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	No data available
CHEMICAL OXYGEN DEMAND (COD), g/g	No data available
PERSISTENCE & DEGRADABILITY	Modified MITI test (OECD301C) : Not readily biodegradable
BIOACCUMLATION	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
GENERAL DISPOSAL CONSIDERATIONS	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
DISPOSAL of EMPTY CONTAINERS	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	ΙΑΤΑ	IMDG
UN NUMBER	UN2735	UN2735	UN2735
UN PROPER SHIPPING NAME	Polyamines, liquid corrosive, n.o.s.	Polyamines, liquid corrosive, n.o.s.	Polyamines, liquid corrosive, n.o.s.
TECHNICAL NAME	containing polyaminohexanol	containing polyaminohexanol	containing polyaminohexanol
TRANSPORT HAZARD CLASS(ES)	8	8	8
PACKING GROUP	- 111		ш
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product		

QUANTITY (RQ)	for this product
EMERGENCY	
RESPONSE	153
GUIDEBOOK (ERG)	193
REFERENCE	
MARINE POLLUTANT	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:

DSL	Canada	No	
NDSL	Canada	Yes	
ENCS	Japan	Yes	Registry No. 7-2522
EINECS	Europe	Yes	Polymer
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	Polymer
ECL	Korea	No	
AICS	Australia	No	

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

EHS COMPO	NENTS	CASRN	PERCENT	TPQ POUNDS and RQ
No limits established f	for this product.			
313 COMPO	NENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established for this				
product.				
CERCLA/SARA CO	MPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established f product.	for this			
	ACUTE	Yes		
EPCRA SECTION	CHRONIC	Yes		
311/312 CLASSIFICATION	FIRE	Yes		
	PRESSURE	No		

OTHER FEDERAL REGULATIONS

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

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act (VOCs in SOCMI 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 California, Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

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.

SDS GENERATED BY	PSIMCOX
SDS VERSION DATE	6/1/2015 11:01:47 AM
SDS APPROVED BY	Patrick B. Simcox Manager – Health, Safety, & Environmental e-mail: psimcox@ksallc.com

MANUFACTURER(S)	Kao Corporation 1-3, Bunka 2-chome, Sumida-ku Tokyo, Japan 131-8501 Phone: 011-81-3-5630-7700
	1-3, Bunka 2-chome, Sumida-ku
	Tokyo, Japan 131-8501
	Phone: 011-81-3-5630-7700

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL	н
PROTECTION	

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

COMPONENT	CASRN	PERCENT	MINIMUM
			CONCLIMINATION

No regulatory limits established for this product.

END OF DOCUMENT