



DATE: 07/05/00

12-25-KEY81 Medium Urethane Reducer

MATERIAL SAFETY DATA SHEET

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this MSDS before handling and disposing of this product.

Pass this information on to employees, customers, & users of this product.

SECTION 1. CHEMICAL PRODUCTS & COMPANY IDENTIFICATION / HAZARD RATINGS

PRODUCT IDENTITY:	Blend #2009 12-25-KEY81 Med. Urethane Reducer	HEALTH RATINGS:	
COMPANY IDENTITY:	Keystone Automotive Industries	HEALTH (NFPA) =	2
COMPANY ADDRESS:	700 East Bonita Avenue Pomona, CA 91767	HEALTH (HMIS) =	2
COMPANY PHONE:	1-800-772-5557	FLAMMABILITY =	3
CHEMTREC PHONE:	1-800-424-9300	REACTIVITY =	0

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS:

- 30-40% METHYL ETHYL KETONE (78-93-3)[201-159-0]
- 15-25% PROPYLENE GLYCOL METHYL ETHER ACETATE (108-65-6)
- 15-25% LIGHT ALIPHATIC SOLVENT NAPHTHA (*64742-89-8)
- 10-20% TOLUENE (108-88-3) [203-625-9]
- 5-10% N-BUTYL ACETATE (123-86-4)[204-658-1]

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R11 Highly Flammable.
R18 In use, may form flammable/explosive vapor-air mixture.
R65 Harmful: may cause lung damage if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R20/65 Harmful by inhalation, may cause lung damage if swallowed.

SAFETY STATEMENTS:

S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition. No smoking.
S29 Do not empty into drains.
S24/25 Avoid contact with skin and eyes.

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

SECTION 4. FIRST AID MEASURES (CONTINUED)

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.

SWALLOWING:

If swallowed, CALL A PHYSICIAN IMMEDIATELY! Do NOT induce vomiting. Have patient lie down & keep warm. Vomiting may lead to pneumonitis, which may be fatal.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:

NFPA Class B extinguishers [Carbon Dioxide or Foam] for Class I B liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES:

Water spray may be ineffective on fire but can protect fire fighters & cool closed containers. Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots). Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES:

EXTREMELY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Keep container tightly closed.

Isolate from oxidizers, heat, sparks, electric equipment and open flame.

Closed containers may explode if exposed to extreme heat.

Applying to hot surfaces requires special precautions.

Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES:

Stop spill at source. Dike area & contain.

CLEAN-UP PROCEDURES:

Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

OTHER PRECAUTIONS:

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone.

SECTION 7. HANDLING AND STORAGE

HANDLING:

Isolate from oxidizers, heat, sparks, electric equipment & open flame. Use only with adequate ventilation. Avoid breathing of vapor or spray mist. Avoid contact with skin & eyes. Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse. Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

STORAGE:

Vapors may ignite explosively & spread long distances. Prevent vapor buildup. Put out pilot lights & turn off heaters, electric equipment & other ignition sources during use & until all vapors are gone. Do not store above 49 C / 120 F. Store large amounts in structures made for OSHA Class I B liquids. Keep container tightly closed & upright when not in use to prevent leakage. OSHA Class I B liquids.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:

Use vapor, mist gas mask within use limits, or ventilate to keep vapors of this material below 60 ppm. If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure self-contained breathing apparatus. Consult Safety Equipment Supplier. Use explosion-proof equipment.

VENTILATION:

LOCAL EXHAUST:	Necessary
MECHANICAL (GENERAL):	Acceptable
SPECIAL:	None
OTHER:	None

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier. Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers. Wash at end of each workshift & before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL DATA

APPEARANCE:	Liquid, Water-White
ODOR :	Ketone
BOILING RANGE :	78 105 147 C / 174 222 298 F
AUTO IGNITION TEMPERATURE :	290 C / 555 F (Lowest Component)
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.6
FLASH POINT (TEST METHOD):	-7 C / 18 F (TCC) (Lowest component)
FLAMMABILITY CLASSIFICATION:	Class I B
GRAVITY @ 60 F :	
API:	37.4
SPECIFIC GRAVITY (Water=1):	.838
POUNDS/GALLON:	6.979
VOC'S (>0.44 Lbs./sq. Inch):	78.2 Vol. % / 655.1 g/L / 5.457 Lbs/Gal
TOTAL VOC'S (TVOC):	100.0 Vol. % / 837.9 g/L / 6.979 Lbs/Gal
NONEXEMPT VOC'S (CVOC):	100.0 Vol. % / 837.9 g/L / 6.979 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS):	50.6 Wt. % / 424.0 g/L / 3.531 Lbs/Gal
VAPOR PRESSURE (mm of Hg) @ 20 C:	42.0
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C):	42.0
VAPOR DENSITY (air=1):	3.2
WATER ABSORPTION :	Appreciable
REFRACTIVE INDEX :	1.408
MIXED ANILINE POINT (Acid Insol):	38 C / 102 F

SECTION 10. STABILITY & REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID:

Isolate from oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID:

Isolate from strong oxidizers such as permanganates, chromates & peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Methyl Ethyl Ketone	78-93-3	200 ppm	200 ppm	Yes
Propylene Glycol Methyl Ether Acetate	108-65-6	None Known	100 ppm	No
Light Aliphatic Solvent Naphtha	*64742-89-8	500 ppm	300 ppm	No
Toluene	108-88-3	200 ppm	50 ppm A4	Yes
n-Butyl Acetate	123-86-4	150 ppm	150 ppm	No

In addition to EPA Hazardous Air Pollutants showing 'Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene, Mixed Xylenes, Ethylbenzene

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Methyl Ethyl Ketone	78-93-3	None Known	300 ppm
Light Aliphatic Solvent Naphtha	*64742-89-8	None Known	5.3E3 ppm
n-Butyl Acetate	123-86-4	None Known	200 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin - defatting, dermatitis.
Absorption thru skin increases exposure.
Primary irritation to eyes – redness, tearing, blurred vision.
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful. Breathing vapor can cause irritation. Acute overexposure can cause damage to kidneys, blood, nerves, liver & lungs.

SWALLOWING:

Harmful or fatal if swallowed.
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS / CONDITIONS AGGRAVATED:

CONDITIONS AGGRAVATED:

Chronic overexposure can cause damage to kidneys, blood, nerves, liver & lungs.
Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Leukemia been reported in humans from Benzene. This product may contain less than 62 ppm of Benzene. Not considered hazardous in such low concentrations. Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS#	LOWEST KNOWN LETHAL DOSE DATA
Toluene	108-88-3	LOWEST KNOWN LD50 (ORAL) 3000.0 mg/kg (Rats)
Methyl Ethyl Ketone	78-93-3	LOWEST KNOWN LC50 (VAPORS) 2000 ppm (Rats)
Toluene	108-88-3	LOWEST KNOWN LD50 (SKIN) 4000.0 mg/kg (Rabbits)

AQUATIC ANIMAL INFORMATION:

The most sensitive known marine group to any component of this product is:

Fish exposed to 5120 ppm or mg/L are adversely affected by components of this product. Keep out of sewers and natural water supplies.

MOBILITY:

This material is a mobile liquid.

DEGRADABILITY:

This product is partially biodegradable.

ACCUMULATION:

This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Paint Related Material, 3, UN1263, PG-II

DRUM LABEL: (FLAMMABLE LIQUID)

IATA / ICAO: Paint Related Material, 3, UN1263, PG-II

IMO / IMDG: Paint Related Material, 3, UN1263, PG-II

EMERGENCY RESPONSE GUIDEBOOK NUMBER: 127

SECTION 15. REGULATORY INFORMATION

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause reproductive toxicity: Toluene

SECTION 15. REGULATORY INFORMATION (CONTINUED)

EPA REGULATIONS:

SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.

SARA Title III Section 313 Supplier Notification

This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS

	CAS#	WT.%	(REG. SECTION)	RQ (LBS)
*Methyl Ethyl Ketone	78-93-3	35	(311, 312, 313, RCRA)	5000
*Toluene	108-88-3	15	(311, 312, 313, RCRA)	1000

IF > 6641 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF TOLUENE IS EXCEEDED.

INTERNATIONAL REGULATIONS:

The components of this product are listed on the chemical inventories of the following countries:

Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA):	1
HEALTH (HMIS):	2
FLAMMABILITY:	3
REACTIVITY:	0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING:

Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.