

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Key European Clear

PRODUCT CODE: KEY 740

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Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

HMIS CODES
Health 2
Flammability 2
Reactivity 1
PPE G

MANUFACTURER'S NAME:
Keystone Automotive Industries

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Section 2 -- COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS	VAPOR PRESSURE
< 1%	78-83-1	Isobutanol	ACGIH TLV OSHA PEL	8.8
5 - 20%	123-86-4	n-Butyl Acetate	TWA: 50 ppm TWA: 50 ppm	11.5
1 - 5%	763-69-9	Ethyl-3-Ethoxypropionate	ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL	150 ppm 200 ppm 150 ppm 200 ppm
5 - 20%	112-07-2	Glycol Ether EB Acetate	ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL	N/E N/E N/E N/E
5 - 20%	110-43-0	Methyl n-Amyl Ketone	ACGIH TLV OSHA PEL	130 mg/m3 N/E N/E N/E
< 1%	1330-20-7	Xylene	ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL	2.2 TWA: 100 ppm, 465 mg/m3 TWA: 300 ppm
5 - 20%	98-56-6	Parachlorobenzotrifluoride	ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL	9.5 150 ppm 150 ppm 100 ppm 150 ppm
1 - 5%	100-41-4	Ethylbenzene	ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL	5.3 N/E N/E N/E
< 1%	77-58-7	Dibutyltin Dilaurate	ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL	1.333 100 ppm 125 ppm 100 ppm 125 ppm
			ACGIH TLV ACGIH STEL OSHA PEL OSHA STEL	<1.00 TWA: 0.1 mg/m3 0.02 mg/m3; skin TWA: 0.1 mg/m3 N/E

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

EYE CONTACT:

Causes eye irritation. Redness, itching, burning sensation and visual disturbances may indicate excessive eye contact.

SKIN CONTACT:

May cause slight skin irritation. Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

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SKIN ABSORPTION:

Skin absorption not expected to occur.

INHALATION:

Vapor and/or spray may be harmful if inhaled.

INGESTION:

Harmful if swallowed.

SIGNS & SYMPTOMS OF OVEREXPOSURE:

Dryness, itching, cracking, burning, redness, and swelling are conditions associated with excessive skin contact.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

Not applicable.

CHRONIC OVEREXPOSURE EFFECTS:

Avoid long-term and repeated contact. Repeated exposure to vapors above recommended exposure limits (see Section 8) may cause irritation of the respiratory system and permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. The effects of long-term, low level exposures to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the prevention of all contact with this material to avoid any effects from repetitive acute exposures. See Section 11, of this MSDS for a detailed list of chronic health effects information available on individual ingredients in this product.

Section 4 -- FIRST AID MEASURES

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists After use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Material Safety Data Sheet information available.

EYE CONTACT:

Remove contact lens and pour a gentle stream of warm water through the affected eye for at least 15 minutes. If irritation persists, contact a poison control center, emergency room, or physician as further treatment may be necessary.

SKIN CONTACT:

Run a gentle stream of water over the affected area for 15 minutes. A mild soap may be used if available. If any symptoms persist, contact poison control center, emergency room, or physician as further treatment may be necessary.

INHALATION:

Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room or physician for treatment information.

INGESTION:

Gently wipe or rinse the inside of the mouth with water. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Do Not induce vomiting. Contact a poison control center, emergency room or physician right away as further treatment will be necessary.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
N/D	0.7	12.1

EXTINGUISHING MEDIA:

Use National Fire Protection Association (NFPA) Class B extinguishers (carbon dioxide, dry chemical, or universal aqueous film forming foam) designed to extinguish NFPA Class IB flammable liquid fires. Water spray may be ineffective. Water spray may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

PROTECTION OF FIREFIGHTERS:

Fire-fighters should wear self-contained breathing apparatus and full protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Keep this product away from heat, sparks, flame, and other sources of ignition (i.e. pilot lights, electric motors, static electricity). Invisible vapors can travel to a source of ignition and flash back. Do not smoke while using this product. Keep containers tightly closed when not in use. Closed containers may explode when overheated. Do not apply to hot surfaces. Toxic gases may form when this product comes in contact with extreme heat. May produce hazardous decomposition products when exposed to extreme heat. Extreme heat includes, but not limited to, flame cutting, brazing, and welding.

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Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Provide maximum ventilation. Only personnel equipped with proper respiratory, skin, and eye protection should be permitted in the area. Remove all sources of ignition. Take up spilled material with sand, vermiculite, or other noncombustible absorbent material and place in clean, empty containers for disposal. Only the spilled material and the absorbent should be placed in this container.

Section 7 -- HANDLING RELEASE MEASURES

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORAGE:

Vapors may collect in low areas. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting material may have the hazards of all of its parts. Containers should be grounded when pouring. Avoid free fall of liquids in excess of a few inches.

STORAGE:

Do not store above 120F (48 degrees C). Store large quantities in buildings designed and protected for storage of NFPA Class IB flammable liquids.

Section 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 8 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

PERSONAL PROTECTIVE EQUIPMENT EYES:

Wear chemical-type splash goggles when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapors.

SKIN/GLOVES:

Wear protective clothing to prevent skin contact. Apron and gloves should be constructed of: neoprene Rubber or butyl rubber. No specific permeation/degradation testing have been done on protective clothing for this product. Recommendations for skin protection are based on infrequent contact with this product. For frequent contact or total immersion, contact a manufacturer of protective clothing for appropriate chemical impervious equipment. Clean contaminated clothing and shoes.

RESPIRATOR:

Overexposure to vapors may be prevented by ensuring proper ventilation controls, vapor exhaust or fresh air entry. A NIOSH-approved air purifying respirator with the appropriate chemical cartridges or a positive pressure, air-supplied respirator may also reduce exposure. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used. Provide general dilution or local exhaust ventilation in volume and pattern to keep the concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

GENERAL HYGIENE-ESTABLISHED EXPOSURE LIMITS:

If Threshold Limit Values (TLVs) have been established by ACGIH and OSHA they will be listed below. These limits are intended for use in the practice of industrial hygiene as guidelines of recommendations in the control of potential workplace health hazards. These limits are not a relative index of toxicity and should not be used by anyone without industrial hygiene training.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.522 lb/gal	1021 g/l
SPECIFIC GRAVITY	1.020	
BOILING POINT	0 - 662 F	-17 - 350 C
VOLATILES	56.2 % by wt	55.8 % by vol
EVAPORATION RATE	Same as ether	
VAPOR DENSITY	Heavier than air	
REGULATORY VOC	3.83 lb/gal	459 g/l
ACTUAL VOC	3.33 lb/gal	399 g/l

Section 10 -- STABILITY AND REACTIVITY

STABILITY:

This product is normally stable and will not undergo hazardous reactions.

CONDITIONS TO AVOID:

None Known.

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INCOMPATIBLE MATERIALS:

Avoid contact with strong alkalis, strong mineral acids, or strong oxidizing agents.

HAZARDOUS POLYMERIZATION:

None Known.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, oxides of sulfur, oxides of barium, lower molecular weight polymer fractions.

CHRONIC TOXICITY:

Target Organs:

Spleen-None Known-Mutagen-Carcinogen-Kidney-Liver-
Embryotoxin-Teratogen-Brain-Central nervous system-Lung

MUTAGENICITY:

This has not been tested for this product.

REPRODUCTIVE:

This has not been tested for this product.

Section 11 -- TOXICOLOGICAL INFORMATION

CAS No.	Ingredient Name					
78-83-1	Isobutanol	LC50	RAT	4HR	1430 ppm	
		LD50	RAT		N/E	
123-86-4	n-Butyl Acetate	LC50	RAT	4HR	>13.2 m/l	
		LD50	RAT		13400 mg/kg	
763-69-9	Ethyl-3-Ethoxypropionate	LC50	RAT	4HR	4076 mg/kg	
		LD50	RAT		5000 mg/kg	
79-20-9	Glycol Ether EB Acetate	LC50	RAT	4HR	> 400 ppm 4 hr	
		LD50	RAT		2400 - 3000 mg/kg BWT	
110-43-0	Methyl n-Amyl Ketone	LC50	RAT	4HR	2000 - 4000 ppm	
		LD50	RAT		1600 mg/kg	
1330-20-7	Xylene	LC50	RAT	4HR	5000 ppm	
		LD50	RAT		4300 mg/kg	
98-56-6	Parachlorobenzotrifluoride	LC50	RAT	4HR	22000 mg/l	
		LD50	RAT		13000 mg/kg	
100-41-4	Ethylbenzene	LC50	RAT	4HR	N/E	
		LD50	RAT		3500 mg/kg	
77-58-7	Dibutyltin Dilaurate	LC50	RAT	4HR	N/E	
		LD50	RAT		175 mg/kg	

Section 12 -- ECOLOGICAL INFORMATION

POTENTIAL ENVIRONMENTAL EFFECTS:

ECOTOXICITY: No Information Available

ENVIRONMENTAL FATE:

Mobility: No Information Available

BIODEGRADATION: No Information Available

BIOACCUMULATION: No Information Available

PHYSICAL/CHEMICAL:

HYDROLYSIS: No Information Available

PHOTOLYSIS: No Information Available

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution. Provide maximum ventilation, only personnel equipped with proper respiratory and skin and eye protection should be permitted in the area. Take up spilled material with sawdust,

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vermiculite, or other absorbent material and place in containers for disposal. Waste material must be disposed of in accordance with federal, state, provincial and local environmental control regulations. Empty containers should be recycled by an appropriately licensed reconditioner/salvager or disposed of through a permitted waste management facility. Additional disposal information is contained on the Environmental Data Sheet for this product.

Section 14 -- TRANSPORT INFORMATION

Proper Shipping Name: Consumer Commodity
NOS Technical Name: ORM-D
Hazard Class: N/A
UN Number: N/A
Packing Group: N/A

Section 15 -- REGULATORY INFORMATION

SARA 313:		
CAS No.	CHEMICAL/COMPOUND	% by WT
112-07-2	Glycol Ether EB Acetate	7.9
1330-20-7	Xylene	0.1
100-41-4	Ethylbenzene	0.0

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION:

U.S. TSCA: This product and/or all of its components are listed on the U.S. TSCA Inventory or is otherwise exempt from TSCA Inventory reporting requirements.

Section 16 -- OTHER INFORMATION

DISCLAIMER:

Do not handle until the manufacturer's safety precautions have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all products with which they come in contact. While we believe that the data contained herein is accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which we assume legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state, provincial, and local laws and regulations.

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ENVIRONMENTAL DATA SHEET

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED. Variations may occur on individual batches due to adjustments made during production.

PRODUCT WEIGHT	SPECIFIC GRAVITY	FLASH POINT
8.522 lb/gal	1.020	0 - 243 F

VOLATILE INGREDIENTS NAME	CAS. NO.	CERC.	SARA 313 TC	HAPS 112	PCT by Wt	PCT by Vol
Glycol Ether EB Acetate	112-07-2	X	X		7.9	8.6
Xylene	1330-20-7	X	X	X	0.1	0.1
Ethylbenzene	100-41-4	X	X	X	0.0	0.0

VOLATILE ORGANIC COMPOUNDS

A. Coating Density	8.52 lb/gal	1022 g/l
B. Total Volatiles	56.3 % by wt	55.9 % by vol
Exempt Volatiles	17.2 % by wt	13.2 % by vol
Water	0.0 % by wt	0.0 % by vol
C. Organic Volatiles	39.1 % by wt	42.7 % by vol
D. Percent Non-Volatile	43.7 % by wt	44.1 % by vol
E. Regulatory VOC	3.83 lb/gal	459 g/l
Actual VOC	3.33 lb/gal	399 g/l
Solids	3.73 lb/gal	447 g/l

WASTE DISPOSAL

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers. The addition of reducers or other additives to this product may substantially alter the above data. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.