

**MATERIAL SAFETY DATA SHEET**

**SECTION 1: PRODUCT IDENTIFICATION**

<b>Trade Name:</b>	CA-LC25/VT40 Catalyst	<b>Manufacturer:</b>	VersaFlex Incorporated
<b>Product #:</b>	CA-LC25/VT40		87 Shawnee Ave
<b>Product:</b>	Catalyst		Kansas City, KS 66105
<b>Color:</b>	Light Amber		Phone: 913.321.9000
<b>Emergency:</b>	<b>Transportation:</b> CHEMTREC – 800.424.9300.	<b>Other:</b>	913.321.9000

**SECTION 2: HAZARDOUS INGREDIENTS**

Ingredient	CAS No.	Weight %	OSHA		ACGIH		Toxicity Data LD <sub>50</sub> , oral, rat g/kg
			PEL ppm	TWA ppm	TWA ppm	STEL ppm	
Tertiary Butyl Acetate	540-88-5	<40	200	200	200	200	Nd
Amino Silane	1760-24-3	<50	200	200	220	250	N/A

**Notes:** \* = mg/m<sup>3</sup>

**Suspected Cancer Agents:**

None of the above are suspected cancer agents. All ingredients are listed in the TSCA directory.

**SECTION 3: PHYSICAL DATA**

<b>Boiling Range, °F:</b>	175-300 °F:	<b>Vapor Pressure, mm Hg @ 68 °F:</b>	MEK = 70; AS = <5
<b>Vapor Density:</b>	TBA = Nd; AS = NA (Air =1)	<b>Volatiles, % by Weight:</b>	0.00 lbs per gallon
<b>Evaporation Rate:</b>	TBA = 2.8; AS = NA (Butyl Acetate = 1)		

**SECTION 4: FIRE AND EXPLOSION DATA**

<b>Flammability:</b>	<b>OSHA:</b> Flammable	<b>DOT Haz Class:</b> 3	<b>UN:</b> TBA = 1123
<b>Extinguishing Media:</b>	Foam, CO <sub>2</sub> , Dry Chemical	<b>DOT Packing Gr:</b> II	
<b>Flash Point, °F:</b>	60		
<b>LEL:</b>	TBA = Nd		

**Unusual fire and explosion hazards:**

Vapors are heavier than air and may form a layer at ground level. Isolate from heat, electrical equipment, sparks, and open flame. Wear self-contained breathing apparatus. Closed containers may explode when exposed to extreme heat.

**SECTION 5: HEALTH AND HAZARD DATA**

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**Entry Routes:** Inhalation and skin contact.

**Medical Conditions Aggravated/Exposure Effects:**

- Eyes:** Can cause severe irritation, redness, tearing, blurred vision.  
**Skin:** Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.  
**Inhaling:** Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.  
**Swallowing:** Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Emergency and First Aid Procedures:**

- Eyes:** Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.  
**Skin:** Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.  
**Inhaled:** If affected, remove individual to fresh air. If breathing difficulties persist, oxygen should be administered by qualified personnel. If breathing has stopped, immediately give artificial respiration. Keep person warm and quiet. Get medical attention.  
**Swallowed:** Do not induce vomiting. Keep person warm, quiet, and get medical attention. Aspiration of material deep into the lungs due to vomiting can cause chemical pneumonitis which can be fatal.

**SECTION 6: REACTIVITY DATA**

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- Stability:** Stable  
**Conditions to Avoid:** Heat, open flame, sparks  
**Incompatibility (Materials to Avoid):** Strong oxidizers  
**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, hydrogen fluoride  
**Hazardous Polymerization:** Will not occur

**SECTION 7: SPILL OR LEAK PROCEDURES**

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- Spills, Leaks:** Eliminate all sources of ignition. Use absorbent cleanup materials or sweep up. Place in separate container.  
**Waste Disposal:** In separate, closed, metal container in accordance with all applicable regulations.

## SECTION 8: SPECIAL PROTECTION INFORMATION

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<b>Respiratory Protection:</b>	NIOSH/MSHA certified respirator. Use air-line respirators in confined or restricted ventilation areas.
<b>Ventilation:</b>	Sufficient ventilation, in volume and pattern, should be provided to keep air contaminant concentrations below TLV limit.
<b>Protective Gloves:</b>	Neoprene or other solvent-resistant material.
<b>Eye Protection:</b>	Splash-proof goggles or face shield.
<b>Other Protective Equipment:</b>	Full protective clothing and shoe coverings.
<b>Hygienic Practices:</b>	Wash thoroughly before eating, smoking, or using restroom. Launder contaminated clothing before re-use.

## SECTION 9: SPECIAL PRECAUTIONS

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<b>Handling and Storage:</b>	Keep container closed, upright when not in use. Store in cool, dry, well-ventilated area. Keep away from feed and food products.
<b>Other Precautions:</b>	Do not take internally. Avoid prolonged breathing of vapors, spray mist, or dust. Avoid contact with skin and eyes. Chronic overexposure to MEK has been reported to cause kidney and liver damage in laboratory animals.