Material Safety Data Sheet

SECTION I — IDENTITY AND MANUFACTURER'S INFORMATION

Manufacturer's Name	HILLYARD CHEMICAL COMPANY
Product Name	CEM-SEAL II
Address	302 North Fourth Street, St. Joseph, MO 64502
Date Prepared	October 10, 1986
Emergency Telephone No And Other Information Calls	(816) 233-1321
Prepared by	Regulatory Affairs Department

SECTION II — HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	CAS #'s	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Petroleum distillate (Stoddard solvent blend)	64742-47-8 & 64741-41-9	500 ppm	100 ppm	N/A	30-35

SECTION III — PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	260-375°F	Specific Gravity (H_2O = 1)	0.868
Vapor Pressure (mm Hg.)	N/A	Percent Volatile By Volume (%)	75%
Vapor Density (AIR = 1)	>1	Evaporation Rate (ether = 1)	<1
Solubility in Water	negligible	Appearance and Odor	translucent liquid; fruity, petroleum distillate odor

SECTION IV — FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
101 F (T.C.C.)		0.8%	no data

Extinguishing Media
Carbon dioxide, dry chemical, foam. Use NFPA Class B extinguishers.

Special Fire Fighting Procedures
Treat as any petroleum solvent fire. Avoid spreading liquid and fire by water. Wear full protective equipment including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards
Keep container closed and isolated from heat, electrical equipment, sparks and flame. Never weld or use cutting torch on or near package.

SECTION V — PHYSICAL HAZARDS

Stability Unstable ☐ Stable ☒
Conditions to Avoid elevated temperatures

Incompatibility (Materials to Avoid)
Avoid contact with strong acids and strong oxidizing agents.

Hazardous Decomposition Products Or Byproducts
None under normal conditions. Thermal decomposition may produce organic acids, carbon dioxide and carbon monoxide.

Hazardous Polymerization May Occur ☐ Will Not Occur ☒
Conditions To Avoid N/A

SECTION VI — HEALTH HAZARD DATA

Route(s) of Entry | Inhalation? | Skin? | Ingestion?
yes   yes   yes

Health Hazards (1. Acute and 2. Chronic)

1. Eye irritant; can cause skin irritation; can defat skin and lead to dermatitis.

2. Chronic overexposure leads to central nervous system depression and permanent brain and nervous system damage.

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Program	Yes ☐ No ☒	I A R C Monographs	Yes ☐ No ☒	OSHA	Yes ☐ No ☒

Signs and Symptoms of Exposure

Overexposure can lead to upper respiratory irritation; swallowing can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Medical Conditions Generally Aggravated by Exposure

Pre-existing eye, skin and respiratory disorders.

Emergency and First Aid Procedures

In case of eye contact flush immediately with plenty of water for at least 15 minutes and get medical attention. Skin: wash thoroughly with soap and water. Remove contaminated clothing and shoes. Wash clothes before reuse. Inhalation: Remove to fresh air. If swallowed do not induce vomiting; GET MEDICAL ATTENTION.

SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled

Remove all sources of ignition (flames, hot surfaces and electric, static or friction sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

Waste Disposal Method

Dispose of in accordance with state or local regulations. EPA Hazardous Waste Classification: Ignitable Liquid. Incinerate in approved facility; do not incinerate closed container.

Precautions To Be Taken In Handling And Storing

Keep container closed when not in use.

Other Precautions

Since empty packages retain product residue, follow label warnings even after package is empty.

SECTION VIII — CONTROL MEASURES

Respiratory Protection (Specify Type) Wear appropriate, properly fitted respirator (NIOSH or MSHA approved unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation at least 10 air chgs/hr. recommended	Local Exhaust recommended	Mechanical (General) recommended	Special N/A	Other N/A

Protective Gloves

impervious rubber gloves

Eye Protection

chemical safety glasses

Other Protective Clothing Or Equipment

protective clothing such as uniforms, coveralls

Work/Hygienic Practices

Wash contaminated clothing before reuse (including shoes).