

MATERIAL SAFETY DATA SHEET

AUG 7 1987

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME OWENS ILLINOIS INC., KIMBLE DIVISION		EMERGENCY TELEPHONE NO. (609) 692-3600
ADDRESS (Number, Street, City, State, and ZIP Code) CRYSTAL AVE., VINELAND, NEW JERSEY 08360		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS KG-33
CHEMICAL FAMILY BOROSILICATE GLASS	FORMULA	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)	
PIGMENTS		N/A	BASE METAL		N/A	
CATALYST		N/A	ALLOYS		N/A	
VEHICLE		N/A	METALLIC COATINGS		N/A	
SOLVENTS		N/A	FILLER METAL PLUS COATING OR CORE FLUX		N/A	
ADDITIVES		N/A	OTHERS		N/A	
OTHERS		N/A			N/A	
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					%	TLV (Units)
						N/A

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	N/A	SPECIFIC GRAVITY (H ₂ O=1)	2.23g/cc
VAPOR PRESSURE (mm Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	N/A
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE (_____ =1)	N/A
SOLUBILITY IN WATER	NONE		
APPEARANCE AND ODOR	CLEAR GLASS, NO. ODOR		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	N/A	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	WILL NOT BURN OR SUPPORT COMBUSTION			
SPECIAL FIRE FIGHTING PROCEDURES	N/A			
UNUSUAL FIRE AND EXPLOSION HAZARDS	N/A			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

N/A

EMERGENCY AND FIRST AID PROCEDURES

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

Y

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

Y

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

N/A

WASTE DISPOSAL METHOD

In accordance with state and local requirements

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Mask required if in pulverized form

VENTILATION

LOCAL EXHAUST

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

IF company policy

EYE PROTECTION

If company policy

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

N/A

OTHER PRECAUTIONS

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 200 ppm (skin)

EFFECTS OF OVEREXPOSURE

ACUTE

CHRONIC

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, and possible asphyxiation. Swallowing can cause blindness and death. Possible eye damage.

EMERGENCY AND FIRST AID PROCEDURES

Eye contact: Flush with water for at least 15 minutes.

Skin contact: Wash thoroughly with soap and water.

Ingestion: Give two glasses of water and induce vomiting, call physician immediately.

Inhalation: Remove victim to fresh air, restore breathing if necessary.

Section VI — REACTIVITY DATA

STABILITY UNSTABLE STABLE

CONDITIONS TO AVOID

INCOMPATIBILITY (Materials to avoid)

Strong oxidizing agents

heat, sparks, and open flames

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO₂

HAZARDOUS POLYMERIZATION

MAY OCCUR WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

1. Eliminate all sources of ignition.
2. Stop spill at source.
3. Contain spill by dike, ect.
4. Pump into grounded salvage tank.

WASTE DISPOSAL METHOD

Incinerate in accordance with federal, state, and local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

If TLV is exceeded, a NIOSH MSHA jointly approved air supplied respirator is advised.

VENTILATION

Provide general dilution or exhaust ventilation and pattern to keep TLV of hazardous ingredients in Section II below stated limit, and LEL in Section IV below stated limit.

PROTECTIVE GLOVES

Recommended

EYE PROTECTION

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Handle and store as a flammable liquid. Aluminum may form an oxide scale on prolonged exposure.

DOL STORAGE CATEGORY

OTHER PRECAUTIONS

1. Since empty containers retain product vapors, which may be explosive, keep away from heat, sparks, and open flames.
2. Do not cut, puncture, or weld on or near emptied containers.
3. Ground all equipment to prevent accumulation of static charge.