



6143 N. 60th Street
Milwaukee, WI 53218
414-535-9506
Date: 6/5/2014

Material Safety Data Sheet

Product Name: Klenow Fragment
Product Number: 1091
Chemical Name: N/A
Chemical formula: N/A

Hazardous Ingredients

- 50% GLYCEROL
- NO OTHER KNOWN HAZARDS ARE ASSOCIATED WITH THIS PRODUCT. ALL INFORMATION CONTAINED HEREIN REFERS TO HAZARDS ASSOCIATED WITH 50% GLYCEROL

Health Hazard Data

- IRRITATING TO EYES AND SKIN
- TARGET ORGAN(S): KIDNEYS
- IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE
- WEAR SUITABLE PROTECTIVE CLOTHING

First Aid Measures

- IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES
- IF SWALLOWED, WASH OUT MOUTH WITH WATER
- PROVIDED PERSON IS CONSCIOUS, CALL A PHYSICIAN
- IF INHALED, MOVE PERSON TO FRESH AIR
- IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION
- IF BREATHING IS DIFFICULT, GIVE OXYGEN

Fire Fighting Measures

EXTINGUISHING MEDIA

- WATER SPRAY
- CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM
- WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES
 - EMITS TOXIC FUMES UNDER FIRE CONDITIONS

Accidental Release Measures

- WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES
- ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL
- VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE



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Exposure Controls/Personal Protection

- WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING
- MECHANICAL EXHAUST REQUIRED
- SAFETY SHOWER AND EYE BATH REQUIRED
- DO NOT BREATHE VAPOR
- AVOID CONTACT WITH EYES, SKIN AND CLOTHING
- AVOID PROLONGED OR REPEATED EXPOSURE
- WASH THOROUGHLY AFTER HANDLING
- WASH CONTAMINATED CLOTHING BEFORE REUSE
- KEEP TIGHTLY CLOSED
- STORE IN A COOL DRY PLACE.

Physical and Chemical Properties

PHYSICAL PROPERTIES

SOLUBILITY: WATER SOLUBLE
SPECIFIC GRAVITY: 1.13 g/ml
pH: 5.5 – 8
APPEARANCE: COLORLESS LIQUID

Stability and Reactivity

CONDITIONS TO AVOID

- PROTECT FROM MOISTURE

INCOMPATIBILITIES

- PROTECT FROM MOISTURE
- STRONG OXIDIZING AGENTS
- STRONG BASES

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS

- CARBON MONOXIDE, CARBON DIOXIDE

HAZARDOUS POLYMERIZATION

- WILL NOT OCCUR

Toxicological Information

ACUTE EFFECTS

- MATERIAL MAY BE IRRITATING TO MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT
- MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION
- CAUSES EYE AND SKIN IRRITATION
- PROLONGED EXPOSURE CAN CAUSE NAUSEA, HEADACHE, AND VOMITING
- TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED

CHRONIC EFFECTS

- TARGET ORGAN(S): KIDNEYS