

SAFETY DATA SHEET

1: IDENTIFICATION

Catalog Number/Product Name: MULTIPLE / MULTIPLE

K9270 4-methylumbelliferyl a-D-Glucoside MAGL
K9275 4-methylumbelliferyl B-D-Glucoside MBGL
K9280 4-methylumbelliferyl B-D-glucuronide MUG
K9292 4-methylumbelliferyl B-D-Xylopyranoside None
K9230 4-methylumbelliferyl B-D-Fucoside None

Other Common Names: None

Recommended Use/Restrictions: For in-vitro diagnostic use only by trained professionals.

Manufacturer/Supplier:

Key Scientific Products
1113 East Reynolds Street
Stamford, TX 79553

Phone Number: 1-800-843-1539
Emergency Phone Number: None available.

2: HAZARD(S) IDENTIFICATION

(a) Classification of the chemical: Skin irritation (Category 2), H315, Eye Irritation (Category 2), H319

(b) Signal word: WARNING

(c) Hazard statement(s): None Required

(d) Pictogram(s): None Applicable

(e) Precautionary statement(s): None

(f) Describe any hazards not otherwise classified that have been identified during the classification process: None

(g) Where an ingredient with unknown acute toxicity is used in a mixture at a concentration $\geq 1\%$ and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required.

3: COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	Common Name/Synonym	CAS Number	Concentration (%)
4-methylumbelliferyl a-D-Glucoside	MAGL	17833-43-1	Less than 0.5 mg of substrate.
4-methylumbelliferyl B-D-Glucoside	MBGL	18997-57-4	Less than 0.5 mg of substrate.
4-methylumbelliferyl B-D-glucuronide	MUG	6160-80-1	Less than 0.5 mg of substrate.
4-methylumbelliferyl B-D-Xylopyranoside	None	6734-33-4	Less than 0.5 mg of substrate.
4-methylumbelliferyl B-D-Fucoside	None	55487-93-9	Less than 0.5 mg of substrate.

These products are NOT HAZARDOUS

4: FIRST-AID MEASURES

(a) Routes of Exposure:

Eyes: If dissolved solution is splashed into eyes, rinse with water for 10 – 15 minutes. Keep eyelids open. Gently remove contact lenses if present and continue rinsing. If irritation persists, seek medical advice

Ingestion: Rinse mouth and drink large amounts of water. Do NOT induce vomiting. Seek medical advice. Never give anything by mouth to an unconscious person. No reaction anticipated.

Inhalation: No vapors formed.

Skin: If on skin, wash with soap and water. No reaction anticipated.

(b) Important symptoms/effects (acute and delayed): None

(c) Indication of immediate medical attention and special treatment needed: None

5: FIRE-FIGHTING MEASURES

(a) Suitable (and unsuitable) extinguishing media: Water spray, dry chemical powder, CO2 or appropriate foam extinguisher.

(b) Specific hazards arising from the chemical: No data available. Non-flammable, non-combustible.

(c) Special protective equipment and precautions for fire-fighters: None indicated.

6: ACCIDENTAL RELEASE MEASURES

(a) **Personal precautions, protective equipment, and emergency procedures:** None indicated.

(b) **Methods and materials for containment and cleaning up:** Liquid may be absorbed with sand, soda ash or soaked into paper towels. Discard with normal laboratory trash. Spillage of inoculated solution should be handled according to guidelines for biological hazards.

7: HANDLING AND STORAGE

(a) **Precautions for safe handling:** None. Store at 2 to 8° C in a dry atmosphere in the sealed container provided.

(b) **Conditions for safe storage:** Store according to label instructions.

8: EXPOSURE CONTROLS / PERSONAL PROTECTION

(a) **OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.** None

(b) **Appropriate engineering controls:** Eye bath. Safety shower.

(c) **Individual protection measures, such as personal protective equipment:**

Eye Contact: Safety glasses

Ingestion: Do not eat, drink or smoke while using this product. Do not eat this product.

Inhalation: None. No vapors formed.

Skin Contact: Wear gloves. No reactions anticipated.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical State: Disc or Swab
Color: WHITE

Odor: None

Odor Threshold: Not determined

pH: Not applicable

Melting Point/Freezing Point: Not determined

Boiling Point/Boiling Range: Not determined

Flash Point: Not determined

Evaporation Rate: Not determined

Flammability: Not determined

Upper and Lower Flammability/Explosive Limits: Not determined

Vapor Pressure: Not determined

Vapor Density: Not determined

Relative Density: Not determined

Solubility: Soluble In Water

Partition coefficient (n-octanol/water) Not determined

Auto-ignition Temperature: Not determined

Decomposition Temperature: Not determined

Viscosity: Not determined

10: STABILITY AND REACTIVITY

(a) **Reactivity:** Non-reactive

(b) **Chemical stability:** Stable

(c) **Possibility of hazardous reactions:** Not determined

(d) **Conditions to avoid (e.g., static discharge, shock, or vibration):** Not determined

(e) **Incompatible materials:** No data available

(f) **Hazardous decomposition products:** None known

11: TOXICOLOGICAL INFORMATION

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

(a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact): No data available

(b) Symptoms related to the physical, chemical and toxicological characteristics: No data available

(c) Delayed and immediate effects and also chronic effects from short- and long-term exposure: No data available

(d) Numerical measures of toxicity (such as acute toxicity estimates): No data available

(e) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA. No data available

12: ECOLOGICAL INFORMATION

Toxicity: Not data available

Results of PBT & vPvB assessment: Not data available

Persistence & degradability: Not data available
Mobility in soil: Not data available
Bioaccumulative potential: Not data available
Other adverse effects: Not data available

13: DISPOSAL CONSIDERATIONS
Waste Disposal: Disposal should be in accordance with national, state, regional and local laws and regulations. Uninoculated discs or swabs may be discarded as normal laboratory waste. Inoculated solution should be discarded in a manner appropriate for biological hazard.

14: TRANSPORT INFORMATION
DOT Hazard Class: Not regulated
Shipping Name: Not regulated
Identification Number: Not regulated
Packing Group: Not regulated

15: REGULATORY INFORMATION

	YES / NO
Carcinogenicity:	No
NTP:	No
IARC:	No
OSHA:	No
California Prop 65:	No
IATA:	No

16: OTHER INFORMATION
The above information, to the best of our knowledge, is accurate. Key Scientific Products assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.

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