



**MATERIAL SAFETY DATA SHEET
DYNAMATE®**

2345 WAUKEGAN ROAD, SUITE E-200
BANNOCKBURN, ILLINOIS 60015-5516
847-607-3290

SECTION I. PRODUCT INFORMATION

PRODUCT NAME: DYNAMATE® CAS NO.: 14977-37-8
CHEMICAL FAMILY: Inorganic Salt MOLECULAR WEIGHT: 415
CHEMICAL NAME: Potassium Magnesium Sulfate FORMULA: $K_2SO_4 \cdot 2MgSO_4$
DOT CLASS: Not regulated by DOT

SECTION II. COMPOSITION	%	CAS. NO.
Potassium Magnesium Sulfate	97.3	14977-37-8
Chloride Salts	2.1	
Insoluble	0.5	
Moisture	0.1	7732-18-5

Dynamate® is not classified as a hazardous material by the criteria of the OSHA Hazard Communication Regulation, 29, CFR Part 1910, .1910.1200, "Hazard Communication"

SECTION III. PHYSICAL DATA

MELTING POINT: 1700° F SPECIFIC GRAVITY: (H₂O = 1) 2.83
VAPOR PRESSURE, (mm Hg): Not Applicable PERCENT VOLATILE: Not Applicable
SOLUBILITY IN WATER (77° F): 24.4%
APPEARANCE AND ODOR: Tan odorless granules

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

Dynamate® is a non-flammable inorganic salt. It will not support combustion, and is non-hazardous. When subjected to temperatures above 1000°F, it may release small amounts of sulfur oxides..

SECTION V. REACTIVITY DATA

STABILITY: Dynamate® is stable under all normal conditions.
INCOMPATIBILITY (materials to avoid): None
HAZARDOUS POLYMERIZATION: Will not occur.

The information, data and recommendations contained herein are believed to be accurate. FEED INGREDIENT DIVISION OF IMC-AGRICO COMPANY makes no warranty of any kind whatever with respect thereto and disclaims all liability from reliance thereon. (continued on reverse side)

SECTION VI. HEALTH HAZARD DATA

OSHA Permissible Exposure Limit or TLV - None established. We suggest the OSHA nuisance dust limit of 15 mg/m³ or the ACGIH TLV of 10 mg/m³ as total dust.

ROUTES OF ENTRY: Lungs (Breathing), ingestion (swallowing)

TOXICITY DATA: None found.

EFFECTS OF OVEREXPOSURE:

SHORT TERM: None found. No information found. Due to its similarity to potassium sulfate and magnesium sulfate (Epsom Salts), it is possible that large doses of Dynamate® may cause vomiting, severe gastrointestinal irritation, and diarrhea.

LONG TERM: None known. Dynamate® is used as an animal feed additive.

FIRST AID: *Eyes* - Flush thoroughly with water. If pain or discomfort persists, see a physician.
Skin - Wash thoroughly with water.

SECTION VII. SPILL, LEAK AND DISPOSAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED;

If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

WASTE DISPOSAL METHOD: Uncontaminated material can generally be disposed of in an approved land disposal facility, in accordance with applicable federal, state, and local regulations. Depending upon type and extent of contamination, if any, other disposal methods may be required by environmental regulatory agencies.

SECTION VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If dust concentrations exceed recommended Permissible Exposure Limits, use NIOSH-approved dust respirators, with approval TC-21C-xxx, until feasible engineering controls are completed.

VENTILATION: Local exhaust or other ventilation that will reduce dust concentrations to less than Permissible Exposure Limits is recommended.

EYE PROTECTION: If high dust concentrations exist, tight-fitting goggles are recommended to reduce dust exposure to the eyes.

OTHER PROTECTIVE EQUIPMENT: Optional.

SECTION IX. SPECIAL PRECAUTIONS

None.

Revised September 1, 1996