

TIGG PPM
MATERIAL SAFETY DATA SHEET

SECTION I. IDENTIFICATION

SUPPLIERS NAME: TIGG CORPORATION
EMERGENCY TELEPHONE: (724) 703-3020
ADDRESS: 1 WILLOW AVENUE; OAKDALE, PA 15071
CHEMICAL NAME AND SYNONYMS: Potassium Permanganate on Natural Molecular Sieve
FORMULA: KMnO₄

SECTION II. INGREDIENTS/SUMMARY OF HAZARDS

Potassium Permanganate	CAS #:	7722-64-7
	% BY WEIGHT:	6-8 %
	ORAL LD₅₀:	
	TLV:	ACGIH: 5 mg/m ³ OSHA: 5 mg/m ³ OTHER: None

WARNING STATEMENTS:

SEE SECTION VI FOR COMPLETE HEALTH HAZARD DATA

NATIONAL FIRE PROTECTION ASSOCIATION RATING HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

KEY	NFPA	HMIS
= NFPA/HMIS		
4 = EXTREME/SEVERE	HEALTH	
3 = HIGH/SERIOUS		
2 = MODERATE	FIRE	
1 = SLIGHT		
0 = MINIMUM	REACTIVITY	

SARA TITLE III HAZARD CLASSIFICATION

IMMEDIATE (ACUTE) HEALTH
DELAYED (CHRONIC) HEALTH
FIRE N/A
SUDDEN RELEASE OF PRESSURE
REACTIVE

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SECTION III. PHYSICAL DATA

BOILING POINT (°F)	N/A
VAPOR PRESSURE (mmHg)	N/A
VAPOR DENSITY (AIR =1)	N/A
SOLUBILITY IN WATER:	KMnO ₄ - Yes, Molecular Sieve -No
SPECIFIC GRAVITY (H₂O = 1)	0.96
PERCENT VOLATILE BY VOLUME (%)	N/A
pH (AQUEOUS SOLUTIONS):	N/A
BULK DENSITY:	60 lb/ft ³
APPEARANCE AND ODOR:	Purple granules, odorless

FOR ADDITIONAL TECHNICAL INFORMATION, CALL (724) 703-3020

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (°C):	Non combustible
FLAMMABLE LIMITS IN AIR:	N/A
AUTOIGNITION TEMPERATURE (°C):	N/A
EXTINGUISHING MEDIA:	N/A
SPECIAL FIRE FIGHTING PROCEDURES:	None
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None

SECTION V. REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	Protect containers against puncture, store in dry area, avoid contact with waste
MATERIALS TO AVOID:	None
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur

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SECTION VI. HEALTH HAZARD DATA/FIRST AID PROCEDURES

GENERAL INFORMATION: May be irritating to body tissue on contact

EXPOSURE LIMITS: ACGIH TLV: 5 mg/m³
OSHA PEL: 5 mg/m³

TOXICOLOGY DATA: ORAL LD50 (RATS):
DERMAL LD50 (RABBITS):
INHALATION LC50 (RATS):
SKIN EFFECTS (RABBITS):
EYE EFFECTS (RABBITS):

CARCINOGENICITY: Not listed

EFFECTS OF SINGLE EXPOSURE: SWALLOWING: Drink water or milk - seek medical attention
SKIN ABSORPTION: Flush immediately with soap and water
INHALATION: Leave contaminated area
SKIN CONTACT: Flush with soap and water
EYE CONTACT: Flush with large quantity of water for 15 minutes

EFFECTS OF REPEATED EXPOSURE: May stain body tissue

OTHER EFFECTS OF EXPOSURE:

EXISTING MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Contacts with open wounds, burns and mucous membranes should be avoided

EMERGENCY FIRST AID PROCEDURE: SWALLOWING: Drink several glasses of water
SKIN: Immediately flush with soap and water, seek medical attention
INHALATION: Leave contaminated area
EYES: Immediately flush with large quantities of water for 15 minutes

NOTES TO PHYSICIAN:

SECTION VII. PRECAUTIONS FOR SAFE HANDLING OR USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Treat as low nuisance dust, sweep up granules (NIOSH/MSA #TC-21C-132)

WASTE DISPOSAL METHOD: Reduce KMnO₄ with HYPO (10% Sodium Thiosulfate)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Protect containers, store in cool dry location

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SECTION VIII. SPECIAL PROTECTION INFORMATION

PROTECTIVE EQUIPMENT SHOULD BE USED DURING THE FOLLOWING PROCEDURES:

RESPIRATORY PROTECTION:	Treat as low nuisance dust (N10SH/MSA #TC-21C-132)
VENTILATION:	Mechanical
PROTECTIVE CLOTHING:	Rubber or plastic gloves; regular work clothing
EYE PROTECTION:	Safety glasses

SECTION IX. REGULATORY STATUS

TSCA INVENTORY:

TRANSPORTATION STATUS:

SARA TITLE III

**SECTION 302 EXTREMELY HAZARDOUS SUBSTANCE LIST:
SECTION 313 TOXIC CHEMICALS:**

**REPORTABLE QUANTITY (RQ),
UNDER U.S. EPA CERCLA:**

**FEDERAL RCRA HAZARDOUS
WASTE:**

STATES RIGHT-TO-KNOW LAWS:

SECTION X. REFERENCES

NONE

SECTION XI. DATE

Prepared 3/16/01
Revised 4/21/08

While this information and recommendations set forth herein are believed to be accurate as to the date hereof, TIGG Corporation makes no warranty with respect hereto and disclaims all liability from reliance thereon.