

**MATERIAL SAFETY DATA SHEET
SECTION I**

MANUFACTURER NAME: ALKLEAN INDUSTRIES INC. FOR EMERGENCY CALL INFOTRAC
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TRADE NAME: PHOSKLEAN Outside US 001-352-323-3500
CHEMICAL FAMILY: MINERAL ACID Date Prepared 12/31/2008
CAS NO: 7664-38-2
TSCA INVENTORY: PHOSPHORIC ACID APPEARS ON THE INVENTORY OF CHEMICAL
SUBSTANCES PUBLISHED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) UNDER
AUTHORITY OF THE TOXIC SUBSTANCES CONTROL ACT (TSCA)
DOT PROPER HAZARD CLASS/ID NO.: CORROSIVE MATERIAL/UN1805

WARNING STATEMENTS

DANGER! CAUSES EYE AND SKIN BURNS
CORROSIVE TO MILDSTEEL

SECTION II - HAZARDOUS INGREDIENTS

PHOSPHORIC ACID
CHEMICAL ABSTRACT SERVICE REGISTRY NUMBER: 7664-38-2

SECTION III: - PHYSICAL DATA

BOILING POINT: 212 F **SPECIFIC GRAVITY:** 1.1
VAPOR DENSITY: 1
SOLUBILITY IN WATER: 100 WT % **EVAPORATION RATE:** 0.1 (water =1.0)
APPEARANCE AND ODOR: CLEAR LIQUID - SLIGHTLY IRRITATING ODOR

SECTION IV - REACTIVITY DATA

MATERIALS TO AVOID: AVOID CONTACT WITH MATERIALS SUCH AS SULFIDES AND SULFITES WHICH COULD RELEASE TOXIC GASES, AND BE CAUTIOUS MIXING WITH STRONG BASES BECAUSE HIGH HEAT OF REACTION CAN GENERATE STEAM.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: DOES NOT OCCUR

SECTION V - FIRE AND EXPLOSION HAZARD DATA

THIS MATERIAL IS NOT COMBUSTIBLE

SECTION VI - HEALTH HAZARD

INHALATION: YES **SKIN:** YES **INGESTION:** YES

INGESTION: NAUSEA. HARMFUL IF SWALLOWED

INHALATION: IRRITANT

SKIN: WILL CAUSE BURNS

EYES: WILL CAUSE BURNS

EMERGENCY AND FIRST AID: EYES/SKIN -FLUSH WITH WATER 15 MINUTES - CONTACT PHYSICIAN IMMEDIATELY. INHALATION: REMOVE FROM EXPOSURE-CONTACT PHYSICIAN IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING - GIVE LARGE QUANTITIES OF WATER AND CONTACT PHYSICIAN.

SECTION VII - SPILL OR LEAKAGE PROCEDURES

SPILLS OR LEAKS: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

DISPOSAL METHODS: Under the CERCLA/RCRA regulations in effect July 3, 1985, this material is regulated as a hazardous waste or material. Therefore, it must be disposed of in a "permitted" hazardous waste facility in compliance with EPA and /or other applicable local, state, and federal regulations and should be handled in a manner acceptable to good waste management practice (RQ = 5000 pounds for aluminum sulfate).

STORAGE REQUIREMENT: No special storage needed.

SECTION VIII - OCCUPATIONAL CONTROL PROCEDURES

EYE PROTECTION: WHERE THERE IS POTENTIAL FOR EYE CONTACT, WEAR CHEMICAL GOGGLES AND HAVE EYE FLUSHING EQUIPMENT IMMEDIATELY AVAILABLE.

SKIN PROTECTION: WEAR APPROPRIATE CHEMICAL RESISTANT GLOVES AND CLOTHING TO PREVENT SKIN CONTACT. CONSULT GLOVE MANUFACTURER TO DETERMINE APPROPRIATE TYPE OF GLOVE FOR GIVEN APPLICATION. WEAR CHEMICAL GOGGLES, A FULL FACE SHIELD, AND A CHEMICAL RESISTANT APRON WHEN SPLASHING IS LIKELY. WASH IMMEDIATELY IF SKIN IS CONTAMINATED. REMOVE CONTAMINATED CLOTHING PROMPTLY AND LAUNDRY BEFORE REUSE. CLEAN PROTECTIVE EQUIPMENT BEFORE REUSE. PROVIDE SAFETY SHOWER AT ANY LOCATION WHERE SKIN CONTACT CAN OCCUR. WASH THOROUGHLY AFTER HANDLING.

RESPIRATORY PROTECTION: AVOID BREATHING VAPOR OR MIST. USE NIOSH/ APPROVED RESPIRATORY PROTECTION EQUIPMENT (FULL FACE PIECE RECOMMENDED) WHEN AIRBORNE EXPOSURE LIMITS ARE EXCEEDED (SEE BELOW). IF USED FULL FACE PIECE REPLACES NEED FOR FULL FACE SHIELD AND/OR CHEMICAL GOGGLES. CONSULT RESPIRATOR MANUFACTURER TO DETERMINE APPROPRIATE TYPE EQUIPMENT FOR GIVEN APPLICATION. OBSERVE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSH/MSHA OR THE MANUFACTURER. RESPIRATORY PROTECTION PROGRAMS MUST BE IN COMPLIANCE WITH 29sCFR 1910.134

VENTILATION: PROVIDE VENTILATION TO CONTROL EXPOSURE LEVELS BELOW AIRBORNE EXPOSURE LIMITS (SEE BELOW). IF PRACTICAL, USE LOCAL MECHANICAL EXHAUST VENTILATION AT SOURCE OF AIR CONTAMINATION SUCH AS OPEN PROCESS EQUIPMENT. CONSULT NFPA STANDARD 91 FOR DESIGN OF EXHAUST SYSTEMS.

AIRBORNE EXPOSURE LIMITS:

OSHA PEL/STEL: 1mg/m³

ACHIH/TLV/TWA: 1mg/m³

Comment [JP1]: Page: 2

SECTION IX - PRECAUTIONARY MEASURES AND FIRST AID STATEMENTS

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

AVOID BREATHING MIST

KEEP CONTAINER CLOSED

USE WITH ADEQUATE VENTILATION

WASH THOROUGHLY AFTER HANDLING

EMPTY CONTAINER RETAINS VAPOR AND PRODUCT RESIDUE. OBSERVE ALL LABELED SAFEGUARDS UNTIL CONTAINER IS CLEANED, RECONDITIONED OR DESTROYED.

SECTION X - EMERGENCY AND FIRST AID PROCEDURES

FIRST AID: IF IN EYES OR ON SKIN, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE.

IN CASE OF SPILL OR LEAK: ABSORB SPILLS WITH DRY AND OR EARTH, THEN PLACE IN CHEMICAL WASTE CONTAINER FOR DISPOSAL. FLUSH RESIDUE SPILL AREA WITH LARGE AMOUNTS OF WATER. NEUTRALIZE WASHINGS WITH BASE SUCH AS SODA ASH OR LIME.

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE.