



KOCH FERTILIZER CANADA LTD

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Koch Fertilizer Canada Ltd.
1400 17th Street East
Brandon, MB R7A 7C4
1-316-828-7672
kochmsds@kochind.com

SPILL/EMERGENCY CONTACT:
CHEMTREC: 1-800-424-9300 (U.S.)
Emergency Response Assistance Plan:
1-204-729-2999
To Request An MSDS: 1-316-828-7672

MSDS NUMBER: 232064

TRADE NAMES:

LIQUID POLY-AMMONIUM PHOSPHATE 10-34-0

SYNONYMS:

10-34-0 AMMONIUM POLYPHOSPHATE LIQUID; LIQUID AMMONIUM POLYPHOSPHATE;
 LIQUID POLYPHOSPHATE; STCC 2871451

PRODUCT USE: agricultural, fertilizer

REVISION DATE: Sept 21 2007

2. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1 FIRE=0 REACTIVITY=0



EMERGENCY OVERVIEW:

MAJOR HEALTH HAZARDS: No significant target effects reported.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: no information is available

SKIN CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: irritation

EYE CONTACT:

SHORT TERM EXPOSURE: irritation

LONG TERM EXPOSURE: irritation

INGESTION:

SHORT TERM EXPOSURE: gastrointestinal irritation, diarrhea

LONG TERM EXPOSURE: no information is available

3. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: AMMONIUM POLYPHOSPHATE

CAS NUMBER: 68333-79-9

PERCENTAGE: 56

COMPONENT: WATER

CAS NUMBER: 7732-18-5

PERCENTAGE: 44

4. FIRST AID MEASURES

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

SKIN CONTACT: Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention if irritation develops or persists. Place contaminated clothing in a closed container until laundered or discarded. Contaminated clothing should be removed and laundered before reuse. Notify person laundering clothing of contaminant's hazardous properties. Discard contaminated leather goods.

EYE CONTACT: Flush eyes with plenty of water for at least 15 minutes. Hold eyelids away from the eyeball to ensure thorough rinsing. Get medical attention if irritation develops or persists.

INGESTION: If a large amount is swallowed, get medical attention.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard.

EXTINGUISHING MEDIA: Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

SENSITIVITY TO MECHANICAL IMPACT: No

SENSITIVITY TO STATIC DISCHARGE: No

FLASH POINT: not flammable

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition or combustion products: oxides of nitrogen, oxides of phosphorus, ammonia

6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers.

7. HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Store in a cool, dry place. Store in a well-ventilated area. Avoid using containers, pipes and fittings made of zinc-clad or copper bearing alloys. Keep separated from incompatible substances.

HANDLING: Wash exposed skin with soap and water.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

LIQUID POLY-AMMONIUM PHOSPHATE 10-34-0:

NUISANCE PARTICULATES (NUISANCE DUST):

5 mg/m³ OSHA TWA (respirable fraction)

15 mg/m³ OSHA TWA (total dust)

15 mppcf OSHA TWA (respirable fraction)

50 mppcf OSHA TWA (total dust)

10 mg/m³ ACGIH TWA (inhalable particulate)

3 mg/m³ ACGIH TWA (respirable particulate)

VENTILATION: General or local exhaust ventilation and other forms of engineering controls are the preferred means for controlling exposures. If ventilation cannot reduce airborne concentrations below acceptable limits, appropriate respiratory protection should be used.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear long-sleeved work clothing to minimize skin contact.

GLOVES: Wear appropriate chemical resistant gloves.

PROTECTIVE MATERIAL TYPES: rubber

RESPIRATOR: A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits. Appropriate respirator selection should be made by a qualified professional as part of a comprehensive respiratory protection program as described in 29 CFR 1910.134. Protection provided by air-purifying respirators is limited and should not be used in atmospheres deficient in oxygen or where airborne concentrations are immediately dangerous to life or health. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: liquid

APPEARANCE: dark

COLOR: green

ODOR: odorless

TASTE: acid taste, salty taste

BOILING POINT: Not available

FREEZING POINT: Not available

VAPOR PRESSURE: Not available

VAPOR DENSITY: Not available

SPECIFIC GRAVITY (water=1): 1.43 @ 16 C

WATER SOLUBILITY: miscible

PH: 5.8-6.2

VOLATILITY: Not available

ODOR THRESHOLD: Not available

EVAPORATION RATE: Not available

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: None reported.

INCOMPATIBILITIES: metals, bases

HAZARDOUS DECOMPOSITION:

Thermal decomposition or combustion products: oxides of nitrogen, oxides of phosphorus, ammonia

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

LIQUID POLY-AMMONIUM PHOSPHATE 10-34-0:

TOXICITY DATA: >2000 mg/kg oral-rat LD50 (TFI Product Testing Results, OECD Guideline 425)

AMMONIUM POLYPHOSPHATE:

TOXICITY DATA: 5625 mg/kg oral-rat LD50

ACUTE TOXICITY LEVEL:

Slightly Toxic: ingestion

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

FISH TOXICITY: >101 mg/L 96 hours LC50 Rainbow trout This material is believed to be non-toxic to aquatic organisms.

FATE AND TRANSPORT:

BIODEGRADATION: This substance will promote algae growth which may degrade water quality and taste. Notify downstream water users. Will dissolve and disperse in water.

PERSISTENCE: This material is believed not to persist in the environment.

BIOCONCENTRATION: This material is not believed to bioconcentrate.

13. DISPOSAL CONSIDERATIONS

This product, as supplied, when discarded or disposed of, is not a hazardous waste according to 40 CFR 261. Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: No classification assigned.

CANADIAN TRANSPORTATION OF DANGEROUS GOODS: No classification assigned.

15. REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):
Not regulated.

SARA TITLE III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40):
Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: No

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

CLEAN AIR ACT: This product does not contain any component listed as a hazardous air pollutant under Title III of the Clean Air Act Amendment of 1990.

STATE REGULATIONS:

California Proposition 65: Not regulated.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW: This MSDS was prepared in accordance with the New Jersey Worker and Community Right-to-Know Act.

PENNSYLVANIA RIGHT TO KNOW: This MSDS was prepared in accordance with the Pennsylvania Worker and Community Right-to-Know Act.

CANADIAN REGULATIONS:

CONTROLLED PRODUCTS REGULATIONS (CPR): This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): All the components of this substance are listed on or are exempt from the inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CANADA INVENTORY (DSL/NDL): All of the components of this product are listed on the DSL.

16. OTHER INFORMATION

MSDS SUMMARY OF CHANGES

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION, INFORMATION ON INGREDIENTS
- 5. FIRE FIGHTING MEASURES
- 10. STABILITY AND REACTIVITY

NOTICE: The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. However, MSDS may not be used as a commercial specification sheet of manufacturer or seller, and no warranty or representation, expressed or implied, is made as to the accuracy or comprehensiveness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by vendor for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.