

SAFETY DATA SHEET

1. Identification

Trade Name: ENCOURAGE MEGA-KEL-P
Other means of identification
Product code: 304-F-5-A
Recommended use: Fertilizer
Recommended restrictions: None Known

Manufacturer information:

Oro Agri, Inc.
2788 S. Maple Ave
Fresno, CA 93725

Telephone Number: +1 (559) 442-4996
Email: SDS-NA@oroagri.com

Emergency Telephone Number: Incident Spill, Leak, Fire, Exposure or Accident
Call CHEMTREC Day or Night

Within USA and Canada:
1 (800) 424-9300

Outside USA:
+1 (703) 741-5970

2. Hazard(s) identification

Physical Hazards

Not classified

Health hazards

Serious eye damage/eye irritation (Category 1)
Skin corrosion/irritation (Category 2)
Carcinogenicity (Category 1)
Reproductive toxicity (Category 1)
Specific target organ toxicity, repeated exposure (Category 2)
Respiratory Sensitization (Category 1)

Environmental hazards

Not classified.

OSHA defined hazards

Not classified.

Label elements



Signal word
Danger

Hazard statement

Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. May damage fertility or the unborn child.

Precautionary statement**Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal equipment as required. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapour/spray. In case of inadequate ventilation wear respiratory protection.

Response

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. IF exposed or concerned: Call a POISON CENTER/doctor/physician if you feel unwell.

Storage

Store in a well-ventilated place. Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental Information

None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS Number	%
Proprietary Mixture ¹		100

Composition comments

¹ Components not listed are either non-hazardous, below reportable limits or withheld as a trade secret.

4. First-aid and Ingestion measures**Inhalation**

In case of unconsciousness place patient stably in side position for transportation.

Skin contact

Immediately wash with water and soap and rinse thoroughly. Continue flushing with water for 15 minutes and transport to Doctor or Hospital.

Eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Ingestion

If symptoms persist consult doctor.

Information for doctor:**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

5. Fire-fighting measures**Extinguishing media****Suitable extinguishing agents**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

No further relevant information available.

Advice for firefighters-Protective equipment

No special measures required.

6. Accidental release measures**Environmental precautions**

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Collect and seal in properly labelled containers or drums for disposal.

Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicals.

7. Handling and storage**Handling****Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

Information about protection against explosions and fires

Keep respiratory protective device available.

Storage**Requirements to be met by storerooms and receptacles**

Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Store in corrosive resistant container with a resistant inner liner. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

Information about storage in one common storage facility

Not required.

Further information about storage conditions

Keep receptacle tightly sealed.

Specific end use(s)

No further relevant information available.

8. Exposure controls/personal protection**Control parameters****Components with limit values that require monitoring at the workplace**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. Currently, the other constituents have no known exposure limits.

Phosphoric Acid

PEL Long-term value: 1 mg/m³
REL Short-term value: 3 mg/m³
Long-term value: 1 mg/m³
TLV Short-term value: 3 mg/m³
Long-term value: 1 mg/m³

Cobalt Sulphate

PEL Long-term value: 0.1* mg/m³as Co; *for metal dust and fume
REL Long-term value: 0.05 mg/m³as Co; metal dust & fume
TLV Long-term value: 0.02 mg/m³as Co, BEI

Additional information

The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Safety shoes, overalls, gloves, chemical goggles and respirator must be worn.

Breathing equipment

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands

Protective gloves. The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application. Nitrile rubber gloves is recommended.

Penetration time of glove material

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

Eye protection

Tightly sealed goggles

Body protection

Protective work clothing

9. Physical chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Greenish Brown.

Odor Slight Pungent

Odor threshold Not available.

pH 2.1

pH temperature 20 °C (68 °F)

Melting point/freezing point Undetermined

Initial boiling point and boiling range Undetermined

Flash point	Not available.
Evaporate rate	Not available.
Flammability (solid, gas)	Not available.
Vapor temperature	20 °C (68 °F)
Vapor pressure	23 kPa (17 mm Hg)
Vapor density	<1
Relative density	1.35g/cm ³
Relative density temperature	20 °C (68 °F)
Solubility(ies)	
Solubility (water)	Fully miscible.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not self igniting.
Decomposition temperature	Not available.
Viscosity	Not available.
Viscosity temperature	Not available.
Solvent content	
Organic solvents	0.0 %
Water	29.6 %
VOC content	0.0 g/l / 0.00 lb/gl
Other information	No further relevant information available.

10. Stability and reactivity

Chemical stability

This material is thermally stable when stored and used as directed.

Conditions to avoid

Elevated temperatures and sources of ignition.

Incompatible materials

Metals and alkalis.

Hazardous decomposition products

Oxides of carbon, nitrogen, phosphorus and sulphur.

Hazardous reactions

Corrosive to metals.

11. Toxicological information

Information on toxicological effects

Acute toxicity

LD/LC50 values that are relevant for classification

Manganese Sulphate Monohydrate

Oral LD50 500 mg/kg (rat)

Zinc Sulphate

Oral LD50 2150 mg/kg (rat)

Copper Sulphate Pentahydrate

Oral LD50 300 mg/kg (rat)

Cobalt Sulphate

Oral LD50 500 mg/kg (ATE)

Sodium Molybdate

Oral LD50 4000 mg/kg (rat)

Dermal LD50 2000 mg/kg (rat)

Inhalative LC50/4hr 2.08 mg/l (rat)

Primary irritant effect

On the skin

Irritant to skin and mucous membranes.

On the eye

Irritating effect.

Sensitization

No sensitizing effects known.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for Preparations: Irritant, Carcinogenic if inhaled.

Carcinogenic categories

IARC (International Agency for Research on Cancer): Cobalt Sulfate 2B

NTP (National Toxicology Program): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

12. Ecological information

Aquatic toxicity

Not available / Not classified.

13. Disposal considerations

Waste treatment methods - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system

Uncleaned packaging - recommendation

Disposal must be made according to official regulations.

Recommended cleansing agent

Water, if necessary, with cleansing agents.

14. Transport information

UN-Number

DOT, ADR, IMDG, IATA

UN3264

UN proper shipping name

DOT

Corrosive liquid, acidic, inorganic, N.O.S. (Phosphoric acid solution)

ADR

3264 Corrosive liquid, acidic, inorganic, N.O.S. (Phosphoric acid solution), Environmentally Hazardous

IMDG

Corrosive Liquid, Acidic, Inorganic, N.O.S. (Phosphoric Acid, Solution, Manganese, Zinc Sulfate, Copper Sulfate Pentahydrate, Cobalt Sulfate), Marine Pollutant

IATA

Corrosive Liquid, Acidic, Inorganic, N.O.S. (Phosphoric Acid, Solution)

Transport hazard class(es)

DOT

Class 8 Corrosive substances
Label 8

ADR, IMDG

Class 8 Corrosive substances
Label 8

IATA

Class 8 Corrosive substances
Label 8

Packing group

DOT, ADR, IMDG, IATA III

Environmental hazards

Product contains environmentally hazardous substances: Zinc Sulfate

Marine pollutant

Yes (DOT)
Symbol (fish and tree)

Special marking (ADR)

Symbol (fish and tree)

Special precautions for user

Warning: Corrosive substances

Danger code (Kemler)

80

EMS Number

F-A,S-B

Segregation groups

Acids

Stowage Category

A

Stowage Code

SW2 Clear of living quarters.

**Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code**

Not applicable.

Transport/Additional information

DOT

Quantity limitations

On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L

Remarks

Special marking with the symbol (fish and tree).

ADR

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

IMDG

Limited quantities (LQ): 5L
Excepted quantities (EQ): Code E1

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation"

UN 3264 Corrosive Liquid, Acidic, Inorganic, N.O.S. (Phos Phoric Acid Solution), 8, III, Environmentally Hazardous, Hazchem Code 2X, Emergency Response Guide No. 37.

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Section 355 (extremely hazardous substances)

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings)

Phosphoric Acid 98%
Manganese Sulfate Monohydrate
Zinc Sulfate
Copper Sulfate Pentahydrate
Cobalt Sulfate

TSCA (Toxic Substances Control Act)

Phosphoric Acid 98%
Urea Granular
Potassium Phosphate Monobasic
Manganese Sulphate Monohydrate
Copper Sulphate Pentahydrate
Cobalt Sulphate
De-ionized Water

CALIFORNIA PROPOSITION 65: WARNING This product can expose you to cobalt sulfate, which is known to the State of California to cause cancer. For more information go to www.p65Warnings.ca.gov.

Chemicals known to cause reproductive toxicity for females

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males

None of the ingredients is listed.

Chemicals known to cause developmental toxicity

None of the ingredients is listed.

Carcinogenic categories**EPA (Environmental Protection Agency)**

Manganese Sulfate Monohydrated
Zinc Sulfate D, I, II

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

16. Other information

ENCOURAGE MEGA-KEL-P
304F5A-US-0001 Version 01
Date: May 10, 2019

Version #: 01

Disclaimer

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