



Material Safety Data Sheet
Version 1.0
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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Primescape Products 9-3-6 Liquid Fertilizer Concentrate
Brand : Primescape
Product Use : Mixed Liquid Specialty Fertilizer
CAS Number(s) : Mixture (See section 3: Ingredients)
Supplier : Primescape Products Co., PO Box 710, Deerfield, IL 60015
Distributed in Canada : Primescape Products Co., 485 E Half Road, Buffalo Grove, IL 60089
Telephone : (800) 872-4361
Fax : (847) 634 4126
Further Information : www.primescapeproducts.com

2. HAZARDS IDENTIFICATION

This Product is not classified as hazardous

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : Mixture

Ingredient	CAS-No	Formula	Concentration	Exposure Limits in air: ACGIH TLV : OSHA PEL:
Mono-Ammonium Phosphate	7722-76-1	$\text{NH}_4\text{H}_2\text{PO}_4$	<10%	Not Established
Mono-Potassium Phosphate	7778-77-0	KH_2PO_4	<6%	Not Established
Magnesium Sulfate	10034-99-8	MgSO_4	<1%	Not Established
Ammonium Nitrate	6484-52-2	NH_4NO_3	<10%	Not Established
Calcium Nitrate	13477-34-4	$\text{Ca}(\text{NO}_3)_2$	<6%	Not Established
Potassium Nitrate	7757-79-1	KNO_3	<10%	Not Established
Phosphoric Acid	007-664-382	H_3PO_4	<6%	3 mg/m ³
Cobaltous Sulfate	10026-24-1	CoSO_4	<0.01%	Mg(CO)/ m ³
Manganese EDTA	15708-48-2	Mn EDTA	<0.1%	5.0 mg/m ³
Iron EDTA	15708-41-5	Fe EDTA	<0.1%	Not Established
Copper EDTA	67989-88-2	Cu EDTA	<0.1%	Not Established
Zinc EDTA	14025-48-2	Zn EDTA	<0.01%	Not Established
Molybdic Acid	7782-91-4	H_2MO_3	<0.01%	5.0 mg (Mo)/ m ³ (TWA)

4. FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Emergency First Aid

If swallowed: Induce vomiting immediately giving two glasses of water, milk or milk of magnesia. Never give anything by mouth to unconscious person. Call a physician.

In case of skin exposure

Wash skin with soap and plenty of water for 15 minutes. Flush area with mild sodium bicarbonate solution. Get medical attention if irritation develops or persists.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Remove to fresh air. Consult a physician.

5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable

Suitable extinguishing media

Use Dry chemicals, Carbon dioxide, water spray or water-base foam.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective clothing for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions - nitrogen oxides (NO_x).
Corrosive decomposition products may be formed in the event of a fire. Avoid contact with skin and eyes, do not breathe vapours.

Explosion data - sensitivity to mechanical impact

No data available

Explosion data - sensitivity to static discharge

No data available

Further Information

Use water spray to cool unopened containers in the vicinity of the fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe area.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover the contaminated surface with sodium bicarbonate or a soda ash-slaked lime; mix and add water if necessary to form a slurry. Scoop up slurry, store in container for disposal according to local regulations (see section 13). Keep in a suitable, closed container for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, prolonged contact with skin and eyes may cause irritation. Avoid breathing vapours, contact with respiratory tract may cause irritation. Provide adequate ventilation. Keep away from heat and sources of ignition. Keep out of the reach of children.

Conditions for safe storage

Keep container tightly closed in a dry and well ventilated place. Away from organic chemicals, strong bases, metal powders, carbides, sulfides and other readily oxidizable materials. Keep away from extremes of temperature e.g. below 0°C and above 40°C. Loosen container cautiously. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a respirator and components tested and approved under appropriate standards such as NIOSH (US) or CEN (EU).

Hand Protection

Avoid skin contact. Handle with rubber gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good practice. Wash and dry hands.

Eye Protection

Where appropriate, wear safety glasses conforming to EN166 or tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EN).

Skin and body protection

Wear non-absorbent clothing and rubber boots. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance being handled. Launder contaminated clothes.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practices. Wash hands with soap and water before breaks and after handling the product.

Specific engineering controls

Use mechanical exhaust to avoid respiratory exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Liquid
Colour	Green

Safety data

pH	No data available
Boiling Point	312° F
Flash Point	No data available
Ignition temperature	No data available
Melting Point	26.4 ° F
Specific Gravity	1.43
Vapor Density	13.3
Vapor Pressure	0.22 mm/Hg
Lower explosion limit	No data available
Upper explosion limit	No data available
Density	No data available
Water solubility	Miscible
Partition coefficient	No data available
Odour	Odourless
Percent volatile	No data available

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and use.

Possibility of hazardous reactions

Polymerization will not occur.

Conditions to avoid

Skin and eye contact, do not breathe, do not drink.

Materials to avoid

Avoid organic chemicals, strong bases, metal powders, carbides, sulphides and other readily oxidizable materials. Corrosive to some metals such as iron, copper, brass or bronze.

Hazardous decomposition products

Contact with some metals may produce hydrogen, which can form flammable mixtures in air.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50	:	No data available
Inhalation LC050	:	No data available
Dermal LD50	:	No data available

Other information	:	Burns to skin, eyes and nasal passages, cramps and vomiting if swallowed.
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Skin corrosion/irritation	:	Burns to skin
Serious eye damage/eye irritation	:	Burns to eyes
Respiratory or skin sensitization	:	This product does not contain any known skin sensitizers.

Signs and symptoms of exposure	:	If swallowed, may cause distress, cramping vomiting and hypertension.
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12. ECOLOGICAL INFORMATION

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available
PBT and vPvB assessment	:	No data available
Other adverse effects	:	No data available

13. DISPOSAL CONSIDERATIONS

Product

Dispose of in accordance with local, state and federal regulations. Mix with water and dispose of in approved landfill.

Empty packaging

Packaging containing only a residue of product can be triple rinsed and disposed of as non-hazardous waste.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not Hazardous for transport

IMDG

Not Hazardous for transport

IATA

Not Hazardous for transport

15. REGULATORY INFORMATION

This product is regulated by The Fertilizers Act and Regulations and the MSDS contains all the information required by the The Fertilizer regulations for this product type. According to The Fertilizer Act Section 3.1 this product is classified as a Specialty Fertilizer and therefore is exempt from Registration.

16. OTHER INFORMATION

The information contained herein is provided in good faith and is believed to be correct, but is issued without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.