

SAFETY DATA SHEET
MAGNUM PHOS THIRTY 3-30-3

SDS # : HA271-A
Revision date: 2018-07-23
Format: NA
Version 1.01



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name MAGNUM PHOS THIRTY 3-30-3

Other means of identification

Product Code(s) HA271-A

Recommended use of the chemical and restrictions on use

Recommended Use: A fertilizer with micronutrients for use in agriculture and horticulture

Restrictions on Use: Use as recommended by the label.

Supplier Address

Manufacturer Address FMC Agro Limited
Rectors Lane
Pentre
Flintshire
CH5 2DH
United Kingdom
Tel: + 44 (0) 1244 537370
E-mail: fmc.agro.uk@fmc.com

Emergency telephone number +44(0)1244 537370 (office hours only)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Reproductive toxicity	Category 1B

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Danger

Hazard Statements

H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H350i - May cause cancer by inhalation
H360F - May damage fertility

**Precautionary Statements - Prevention**

P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Phosphoric acid	7664-38-2	30-60
COBALT (II) SULPHATE	10124-43-3	<1

4. FIRST AID MEASURES**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Transfer to hospital for specialist examination.

Skin Contact

Immediately remove all stained or splashed clothing that is not adhering to the skin. Wash off immediately with soap and plenty of water. Transfer to hospital if there are burns or symptoms of poisoning.

Inhalation

Remove person from exposure ensuring one's own safety while doing so. If experiencing any discomfort, immediately remove from exposure. Get medical attention. If discomfort increases, prepare for emergency action: artificial respiration or cardiopulmonary resuscitation as required, preferably by trained personnel, and transport the victim to an emergency care facility.

Ingestion

Rinse mouth. Do NOT induce vomiting. Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed

Skin contact: Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.

Eye contact: There may be pain and redness. The eyes may water profusely. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Nausea and stomach pain may occur.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Possible systemic effects via inhalation.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

**Specific Hazards Arising from the Chemical
Hazardous Combustion Products**

The product causes burns of eyes, skin and mucous membranes May cause an allergic skin reaction May cause cancer by inhalation May damage fertility or the unborn child Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data**Sensitivity to Mechanical Impact****Sensitivity to Static Discharge**

No information available.

No information available.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Corrosive hazard. Wear protective gloves/clothing and eye/face protection. Avoid any skin contact. Prevent runoff from fire control from entering streams, sewers, or drinking water supply. If there is accidental release into water courses, drains, soil or vegetation, immediately contact the relevant authorities.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

For personal protection see section 8. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Isolate and post spill area. Stop leak if you can do it without risk. Keep people away from and upwind of spill/leak. In the case of large spills (1 ton or more), alert the appropriate authorities.

Other

Ventilate the area.

Environmental Precautions

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

Methods for Containment

Dike far ahead of liquid spill for later disposal. Prevent further leakage or spillage if safe to do so. Cover with dry sand/earth. Control runoff and isolate discharged material for proper disposal. .

Methods for cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Keep in suitable and closed containers for disposal. Use personal protective equipment. Sweep or vacuum up spillage and return to container. Dispose of in accordance with all applicable national environmental laws and regulations. Surface water drains within close vicinity of the spill should be covered. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
Storage	Keep away from open flames, hot surfaces and sources of ignition. Keep in a dry, cool and well-ventilated place. Keep out of reach of children and animals. Keep/store only in original container.
Incompatible products	Strong oxidizing agents, Strong bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Phosphoric acid (7664-38-2)	STEL 3 mg/m ³ TWA: 1 mg/m ³	TWA: 1 mg/m ³	IDLH: 1000 mg/m ³ TWA: 1 mg/m ³ STEL: 3 mg/m ³	Mexico: TWA 1 mg/m ³ Mexico: STEL 3 mg/m ³
COBALT (II) SULPHATE (10124-43-3)	TWA: 0.02 mg/m ³	-	-	-
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Phosphoric acid (7664-38-2)	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³
COBALT (II) SULPHATE (10124-43-3)	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³	TWA: 0.02 mg/m ³

Appropriate engineering controls

Engineering measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tightly fitting safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.
Skin and Body Protection	Acid-resistant clothing.
Hand Protection	Acid-resistant gloves
Respiratory Protection	The product is not likely to present an airborne exposure concern during normal handling, but in the event of a discharge of the material which produces a heavy vapour or mist, workers should put on officially approved face mask or respiratory protection: Respiratory protection with universal filter type, including particle filter.
Hygiene measures	Clean water should be available for washing in case of eye or skin contamination. Remove and wash contaminated clothing before re-use. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Launder work clothing separately from regular household laundry.
General information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquid
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Physical State	Liquid
Color	Purple, pale
Odor	Barely perceptible
Odor threshold	No information available
pH	<2.0
Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Density	No information available
Specific gravity	1.34 - 1.36
Water solubility	Soluble in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	Non-oxidizing
Molecular weight	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity	Stable under recommended storage conditions
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Heat
Incompatible materials	Strong oxidizing agents, Strong bases.
Hazardous Decomposition Products	May emit toxic fumes under fire conditions.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral	> 2000 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)
LD50 Dermal	> 2000 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)
LC50 Inhalation	> 5 mg/L 4 hr (rat) (Calculated Estimated Acute Toxicity - EAT)

Serious eye damage/eye irritation	Severely irritating to the eyes.
Skin corrosion/irritation	Expected to be moderately to severely irritating.
Sensitization	Sensitizer

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid (7664-38-2)	> 2000 mg/kg (rat)	= 2740 mg/kg (rabbit)	> 850 mg/m ³ (rat) 1 h
COBALT (II) SULPHATE (10124-43-3)	= 424 mg/kg (Rat)		

Information on toxicological effects

Symptoms	Skin contact: May see mild irritation at the site of contact.
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Eye contact: Possible irritation and redness.
Ingestion: Possible irritation of the throat.
Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.
Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Mutagenicity No information available
Carcinogenicity May cause cancer
Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
COBALT (II) SULPHATE 10124-43-3	A3	Group 2B	Reasonably Anticipated	X

12. ECOLOGICAL INFORMATION

Ecotoxicity

COBALT (II) SULPHATE:
ALGAE (Raphidocelis subcapitata) 72H ErC50 0.90 mg/l
ALGAE (Raphidocelis subcapitata) 72H NOErC 0.04 mg/l
DAPHNID (Daphnia magna) 28d LOEC < 4.4 µg/l
DAPHNID (Daphnia magna) 48H LC50 5.99 mg/l
FATHEAD MINNOW (Pimephales promelas) 28d NOEC 0.81 mg/l
FATHEAD MINNOW (Pimephales promelas) 96H LC50 3.61 mg/l

Persistence and degradability No information available.

Bioaccumulation No information available.

Mobility Soluble in water.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated Packaging Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT

UN/ID no UN1760
Proper Shipping Name Corrosive liquid, n.o.s.
Hazard class 8
Packing Group III
Description UN1760, Corrosive liquid, n.o.s. (orthophosphoric acid), 8, III

TDG

UN/ID no UN1760
Proper Shipping Name Corrosive liquid, n.o.s.
Hazard class 8

Packing Group III
Description UN1760, Corrosive liquid, n.o.s. (orthophosphoric acid), 8, III

ICAO/IATA

UN/ID no UN1760
Proper Shipping Name Corrosive liquid, n.o.s.
Hazard class 8
Packing Group III
Description UN1760, Corrosive liquid, n.o.s. (orthophosphoric acid), 8, III

IMDG/IMO

UN/ID no UN1760
Proper Shipping Name Corrosive liquid, n.o.s.
Hazard class 8
Packing Group III
Description UN1760, Corrosive liquid, n.o.s. (orthophosphoric acid), 8, III

15. REGULATORY INFORMATION

U.S. Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb			X

CERCLA

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Phosphoric acid 7664-38-2	5000 lb 2270 kg	

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical name	California Prop. 65
COBALT (II) SULPHATE - 10124-43-3	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	X	X	X

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Phosphoric acid 7664-38-2	X	X	X	X	X	X	X	X
COBALT (II) SULPHATE 10124-43-3	X	X	X	X	X	X	X	X

Chemical name	Carcinogen Status	Mexico
Phosphoric acid		Mexico: TWA 1 mg/m ³ Mexico: STEL 3 mg/m ³

16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 2	Flammability 1	Physical hazard 0	Personal Protection X

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision date: 2018-07-23
Reason for revision: Format Change

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Prepared By:

FMC Corporation

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End of Safety Data Sheet