SAFETY DATA SHEET MOLYBDENUM 15

SDS #: HA293-A

Revision date: 2018-07-23

Format: NA Version 1.01



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name MOLYBDENUM 15

Other means of identification

Product Code(s) HA293-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 2
Serious eye damage/eye irritation	Category 2

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Warning

Hazard Statements

H315 - Causes skin irritation

H319 - Causes serious eye irritation

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Precautionary Statements - Prevention

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P332 + P313 - If skin irritation occurs: Get medical advice/attention

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	10-30

4. FIRST AID MEASURES

Eye Contact Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove

contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison

control center or doctor for further treatment advice.

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.

Inhalation Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for

further treatment advice.

Ingestion Clean mouth with water and afterwards drink plenty of water

Most important symptoms and effects, both acute and delayed

Skin contact: May see mild irritation at the site of contact.

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.

Indication of immediate medical attention and special treatment

Treat symptomatically.

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needed, if necessary

5. FIRE-FIGHTING MEASURES

surrounding environment.

Specific Hazards Arising from the

Chemical

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Toxic fumes may be released in fire situations.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing,

gloves and eye/face protection. For personal protection see section 8.

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.

Methods for Containment Dike far ahead of liquid spill for later disposal. Absorb or cover with dry earth, sand or other

non-combustible material and transfer to containers.

Methods for cleaning up Wash spillage site with large amounts of water. Absorb with earth, sand or other

non-combustible material and transfer to containers for later disposal. Dispose of waste as

indicated in Section 13.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Prevent the

formation of vapors, mists and aerosols. Do not breathe vapours or spray mist.

Storage Store above 5°C. Keep container tightly closed. Store 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	STEL 3 mg/m ³	TWA: 1 mg/m ³	IDLH: 1000 mg/m ³	Mexico: TWA 1 mg/m ³
(7664-38-2)	TWA: 1 mg/m ³		TWA: 1 mg/m ³	
			STEL: 3 mg/m ³	
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Phosphoric acid	TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³
(7664-38-2)	STEL: 3 mg/m ³	STEL: 3 mg/m ³		STEL: 3 mg/m ³
	_	_		_
			STEL: 3 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 Safety glasses with side-shields. Maintain eye wash fountain and quick-drench facilities in

work area.

Skin and Body Protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Protective gloves

Respiratory Protection No special protective equipment required.

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 Physical State Liquid

ColorNo information availableOdorBarely perceptibleOdor thresholdNo information available

pH ~3.5

Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point Not applicable

Evaporation RateFlammability (solid, gas)
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Density

No information available
No information available
No information available
No information available

Specific gravity ~ 1.63

Water solubility Soluble in water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Explosive properties
No information available

Oxidizing properties Non-oxidizing

Molecular weightNo information availableBulk densityNo 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

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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

Risk of serious damage to eyes.

Skin corrosion/irritation

Irritating to skin.

Sensitization

Not expected to be sensitizing based on the components.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid	> 2000 mg/kg (rat)	= 2740 mg/kg (rabbit)	> 850 mg/m³ (rat) 1 h
(7664-38-2)			

Information on toxicological effects

Symptoms Skin contact: May see mild irritation at the site of contact.

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

MutagenicityNo information availableCarcinogenicityNo information availableReproductive toxicityNo information availableSTOT - single exposureNo information availableSTOT - repeated exposureNo information availableAspiration hazardNo information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

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REGULATIONS.

DOT NOT REGULATED

TDG NOT REGULATED

ICAO/IATA NOT REGULATED

IMDG/IMO NOT REGULATED

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.

U.S. State Right-to-Know Regulations

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

International Inventories

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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	Х	X	X	X	X	Х	Х	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 0	Instability 0	Special Hazards -
HMIS	Health Hazards 2	Flammability 0	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