



四川蓝剑化工(集团)有限责任公司

SICHUAN BLUE SWORD CHEMICAL (GROUP) CO., LTD

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MATERIAL SAFETY DATA SHEET (MSDS) Mono Ammonium Phosphate (MAP)

SECTION I NAME

PRODUCT Monoammonium Phosphate (M.A.P.)

SYNONYMS

Ammonium Phosphate Monobasic

CHEMICAL

FAMILY Ammonium Phosphates

FORMULA $(\text{NH}_4)\text{H}_2\text{PO}_4$ C.A.S. NUMBER 7722-76-1

SECTION II INGREDIENTS

The composition of monoammonium phosphate varies according to raw materials.

Typical analysis shows:

COMPOSITION %

$(\text{NH}_4)\text{H}_2\text{PO}_4$ approx. 99%

F 0.005 – 0.015%

Water 1.0 – 1.8%

Iron 0.015 – 0.03%

P₂O₅ approx 61%

N approx 11.8%

SECTION III PHYSICAL DATA

BOILING POINT

(0°C)

Decomposes

at 150°C

MELTING POINT

(0°C)

190° VAPOR PRESSURE

(mmHg)

N/A

SPECIFIC GRAVITY

(H₂O = 1)

1.893 % VOLATILE BY

VOLUME

N/A VAPOR DENSITY

(AIR = 1)

N/A

SOLUBILITY

IN WATER

Soluble **EVAPORATION RATE**

(BUTYL ACETATE = 1)

N/A **MOLECULAR**

WEIGHT

115.03

PHYSICAL

STATE

Solid **DENSITY**

lbs/U.S. gal

61 lbs. per cu. ft.

(bulk) **pH**

4.2

APPEARANCE AND ODOR

Gray, granular, slight ammonia odor.

SECTION IV REACTIVITY

STABILITY

UNSTABLE () STABLE (X)

HAZARDOUS POLYMERIZATION

MAY OCCUR (); WILL NOT OCCUR (X)

CONDITIONS AND MATERIALS TO AVOID

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

SECTION V FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED

N/A

FLAMMABLE LIMITS —

% VOLUME IN AIR

LOWER

N/A

UPPER

N/A

EXTINGUISHING MEDIA

Use media needed to control surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Wear self-contained breathing apparatus (positive pressure, if available) and full protective clothing.

AUTOIGNITION TEMPERATURE: _____ N/A _____ °C _____ N/A _____ °F

UNUSUAL FIRE AND EXPLOSION HAZARDS

None; considered stable.

SECTION VI HEALTH INFORMATION

PERMISSIBLE EXPOSURE LIMIT (PEL) ___None___ ACGIH THRESHOLD LIMIT VALUE (TLV) ___None___

LISTED IN : IARC MONOGRAPHS ___No___ NTP LIST ___No___ Dust: PEL 15 mg/m³ – Total; 5 mg/m³ – resp.

TLV 10 mg/m³ – Total; 5 mg/m³ – resp.

HEALTH HAZARD CLASSIFICATION

None

PRIMARY ROUTE(S) OF ENTRY

Inhalation

SYMPTOMS OF OVEREXPOSURE

Acute: At high dust concentrations, irritation of eyes, skin, and mucous membranes by chemical or mechanical action

may occur.

Chronic: None

AGGRAVATED MEDICAL CONDITION

Preexisting respiratory disease including asthma and emphysema.

TOXIC DATA

None established.

SECTION VII STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS

None

OTHER PRECAUTIONS

None

SECTION VIII EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

If eye irritation occurs, flush with copious amounts of water. Get medical attention if irritation persists.

SKIN CONTACT

If irritation occurs, wash skin with water and mild detergent. Get medical attention if irritation persists.

INHALATION

If breathing difficulty occurs because of dust inhalation, remove to fresh air. If discomfort continues, seek medical attention.

INGESTION

If the person is conscious, drink large quantities of water. Do not induce vomiting. Get medical attention.

NOTE TO THE PHYSICIAN

Symptomatic treatment only.

SECTION IX PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

A NIOSH approved dust respirator (either single use or multiple use) should be worn when applicable (total and/or respirable) dust standards are exceeded.

ENGINEERING CONTROLS

Adequate ventilation should be available to maintain dust levels below applicable standards on respirable and total nuisance dust.

SKIN PROTECTION

No protection normally required. If irritation occurs, long sleeves and impervious gloves should be worn.

EYE PROTECTION

When appropriate, suitable eye protection should be used.

OTHER PROTECTIVE EQUIPMENT

Washing facilities should be available.

SECTION X TRANSPORTATION REQUIREMENTS**DEPARTMENT OF TRANSPORTATION**

Not regulated (Under the TDG Act).

PROPER SHIPPING NAME IDENTIFICATION NUMBER (PIN)

N/A N/A

PACKING GROUP

N/A

IMO CLASSIFICATION:

N/A

OTHER REQUIREMENTS

N/A

SECTION XI EMERGENCY ACTION – (SPILL OR LEAK)**EMERGENCY ACTION**

Prevent large quantities from contact with waterways or vegetation.

SMALL SPILLS

If uncontaminated, recover and reuse as product. Consult with environmental regulatory agencies for acceptable disposal procedures.

LARGE SPILLS

Consult with environmental regulatory agencies for acceptable disposal procedures if product cannot be recovered and reused.

FOOTNOTES

Note: N/A means Not Applicable.

DISCLAIMER

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