

HayPro II®

American Farm Products Inc.

Safety Data Sheet



Revision date: 21 February 2018
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1. Product and Company Identification

1.1 Product identifiers

Product Name HayPro II®
Producer American Farm Products, Inc
Product Number n/a
CAS-No. n/a

1.2 Identified uses of the product and uses advised against

Identified Uses Agricultural

1.3 Details of the chemical supplier

Company American Farm Products, Inc.
Address 1382 Industrial Dr.
Suite 4
Saline, MI 48176
USA
Telephone: (734) 484-4180

1.4 Emergency phone number

Emergency phone number (734) 484-4180 (Emergency Telephone, 24 hrs-a-day / 7 days-a-week)

2. Hazards Identification

2.1 Classification of the substance or mixture according to GHS

GHS class Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute toxicity, Oral (Category 4), H302
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 2), H411

2.2 GHS Label elements, including precautionary statements

GHS pictograms



Signal word

Danger, Combustible

Hazard statements

H302 – Harmful if swallowed.
H314 – Causes severe skin burns and eye damage.
H318 – Causes serious eye damage.
H335 – May cause respiratory irritation.
H400 – Very toxic to aquatic life.
H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 – Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking
P233 – Keep container tightly closed.
P240 – Ground/bond container and receiving equipment.
P241 – Use explosion-proof electrical/ventilating/ lighting equipment.
P242 – Use only non-sparking tools.
P243 – Take precautionary measures against static discharge.
P261 – Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 - Wash skin thoroughly after handling.
 P270 – Do not eat, drink, or smoke when using this product.
 P271 – Wear protective gloves/protective clothing/ eye protection.
 P273 – Avoid release to the environment.
 P280 - Wear eye protection/ face protection.
 P301 + P330 + P331 – IF SWALLOWED: Rinse mouth. Do not induce vomiting.
 P303 + P361 +P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
 P305 + P351 + P338 - 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/ doctor.
 P321 – Specific treatment (see supplemental first aid instructions on this label).
 P363 – Wash contaminated clothing before reuse.
 P370 + P378 – In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
 P391 – Collect spillage.
 P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 – Store in a well-ventilated place. Keep cool.
 P405 – Store locked up.
 P501 – Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Rapidly absorbed through skin. Lachrymator.

3. Composition/Information on Ingredients

3.1 Product mixture

Synonyms	Ammonium Propionate
Formula	n/a
Molecular wt	n/a
CAS-No.	n/a
EC-No.	n/a

Chemical Name	CAS-No.	EC-No.	Ingredient Percent
Propionic Acid	79-0-94	201-176-3	56%
Ammonium Hydroxide	1336-21-6	215-647-6	30%
Acetic Acid	64-19-7	200-580-7	14%

Remarks There are no additional hazardous ingredients greater than or equal to 1.0 wt% concentration or carcinogenic ingredients greater than or equal to 0.1 wt% concentration.

4. First Aid Measures

4.1 Description of first aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Skin contact	Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek immediate medical attention/advice.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Inhalation	In case of difficult breathing, move victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention/advice.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Other first aid	No data available
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5. Fire Fighting Measures**5.1 Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media	Use alcohol-resistant foam, dry chemical or carbon dioxide. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture

Special hazards	Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Use in ventilated areas only. Decomposition products may include: oxides of carbon.
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5.3 Advice for firefighters

Protective equipment	Wear full protective clothing and self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode.
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6. Accidental Release Measures**6.1 Personal precautions, protective equipment, and emergency procedures**

Personal precautions	Avoid contact with skin and eyes. Avoid breathing vapors, mist or dust. Ensure adequate ventilation in areas where dust or vapors can accumulate. Remove all sources of ignition and evacuate personnel to safe areas. Dust and vapors can accumulate in low areas when dealing with large quantities. For personal protection see section 8.
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6.2 Environmental precautions

Environmental precautions	In case of large spills, dike spill to prevent runoff into sewers and drains. Recover as much of the material as possible. Prevent further leakage if safe to do so.
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6.3 Methods and materials for containment and cleaning up

Methods for cleanup	Move containers from spill area. Neutralize with alkaline material. Take up with sand or other non-combustible absorbent material and place into containers for later disposal. Following product clean up, flush area with water.
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6.4 References to other sections

Other references	For disposal see section 13.
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7. Handling and Storage**7.1 General hygiene considerations**

General hygiene	Wash hands after use. Avoid contact with skin and eyes. Avoid inhalation of vapor or dust. In case of large quantities of vapor or mist, use local exhaust or general dilution ventilation to control exposure and dust within applicable limits. Keep away from high temperatures and sources of ignition. For precautions see section 2.2.
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7.2 Precautions for safe handling

Safe handling precautions	Keep container tightly closed in a dry and well-ventilated place. Keep away from any source of heat or ignition. Keep away from incompatible substances.
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7.3 Conditions for safe storage, including any incompatibilities

Other storage conditions	Store product in a dry environment, away from strong bases and oxidizers. Store at temperatures between 0°F - 120°F. Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
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8. Exposure Controls/Personal Protection**8.1 Control and exposure limits recommended by the chemical manufacturer**

OSHA standards	Not available - not determined
ACGIH TLV	Not available - not determined
NIOSH recommendations	Not available - not determined

8.2 Appropriate engineering controls

Engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of day. Use adequate ventilation where dust forms to keep concentration under exposure control limits. Keep away from high temperatures and sources of ignition.
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8.3 Individual protection measures, such as personal protective equipment

Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Eye/face protection	Safety glasses with side-shields conforming to EN166 are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Hand protection	Handle with chemical resistant gloves. Gloves must be inspected prior to use. 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 laboratory practices. Wash and dry hands.
Body protection	Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

a) Appearance	Clear, yellow liquid
b) Odor	Acetic Acid Odor
c) Odor threshold	No data available
d) pH	5.9-6.3 as is
e) Melting/freezing point	No data available
f) Boiling point	No data available
g) Flash point	66.11°C (151°F)
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	Upper (UEL): No data available Lower (LEL): No data available
k) Vapor pressure	No data available
l) Vapor density	No data available
m) Relative density	1.07
n) Water solubility	Very soluble in water
o) Partition coefficient octanol/water	No data available
p) Auto-ignition temp	No data available
q) Decomposition temp	No data available
r) Viscosity	No data available

10. Stability and Reactivity**10.1 Reactivity**

Reactivity No data available

10.2 Chemical stability

Chemical stability Stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions

Hazardous reactions No data available

10.4 Conditions to avoid

Conditions to avoid Contact with heat, flames and sparks; ignitions sources and incompatible chemicals.

10.5 Incompatible materials

Incompatible materials Strong oxidizers and strong bases. Acids and alkalis may inactivate the bacterial cultures.

10.6 Hazardous decomposition products

Hazardous products Carbon monoxide and carbon dioxide. In the event of fire, see section 5.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	No data available
Acute intravenous toxicity	No data available
Acute dermal toxicity	No data available
Acute inhalation toxicity	No data available

Skin corrosion/irritation

Skin corrosion irritation	May cause irritation or damage to skin
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Serious eye damage/eye irritation

Eye damage/eye irritation	May cause irritation or damage to eyes
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Respiratory or skin sensitization

Respiratory sensitizer	No data available
Skin sensitizer	No data available

Germ cell mutagenicity

Mutagenicity	No data available
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Carcinogenicity

Carcinogenicity	No data available
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Suspected cancer agent

ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.

Reproductive toxicity

Reproductive toxicity	No data available
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Aspiration hazard

Aspiration hazard	No data available
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12. Ecological Information

12.1 Ecotoxicity (aquatic and terrestrial)

Ecotoxicity	No data available
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12.2 Persistence and degradability

Degradability	No data available
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12.3 Bioaccumulation potential

Bioaccumulation	No data available
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12.4 Mobility in soil

Mobility in soil	No data available
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12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment	Not available as chemical safety assessment not required/not conducted.
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13. Disposal Considerations

13.1 Waste treatment methods

Waste treatment disposal	Disposal must be in accordance with appropriate Federal, State, and local regulations.
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14. Transport Information

DOT

Not dangerous goods.

IMDG

Not dangerous goods.

IATA

Not dangerous goods.

15. Regulatory Information**15.1 Safety, health, and environmental regulations specific to the product or mixture**

SARA 302 Components	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards	Acute health hazard.
TSCA	All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements.
Canada DSL	All components of this product are on the Canada Domestic Substance List or are exempt from DSL requirements.
WHMIS classification	No ingredients are hazardous according to the CPR criteria.
Hazard symbols	Xi
Risk phrases	R36/38; Irritating to eyes and skin
Safety phrases	S24/25; Avoid contact with skin and eyes S26; In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
CA Prop. 65 components	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
International lists	Australia - AICS - The materials are listed or exempted Canada - The materials are listed or exempted China - IECSC - The materials are listed or exempted Europe - EINECS - The materials are listed or exempted Japan - ENCS/ISHL - The materials are listed or exempted Malaysia - The materials are listed or exempted New Zealand - NZIoC - The materials are listed or exempted Philippines - PICCS - The materials are listed or exempted Korea - KECI - The materials are listed or exempted Taiwan - NECI - The materials are listed or exempted Turkey - The materials are listed or exempted United States - The materials are listed or exempted

16. Other Information

Revision Date 21 February 2018

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. American Farm Products Inc assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, American Farm Products Inc assumes no responsibility for injury to vendee or third persons proximately caused by use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

Abbreviations and acronyms IMDG - International Maritime Code for Dangerous Goods
 IATA - International Air Transport Association
 GHS - Globally Harmonized System of Classification and Labelling of Chemicals
 PBT - Persistent, bioaccumulative and toxic assessment
 vPvB - Very persistent and very bioaccumulative assessment
 ACGIH - American Conference of Governmental Industrial Hygienists
 NIOSH - National Institute for Occupational Safety and Health
 TLV - Threshold Limit Values
 CAS - Chemical Abstracts Service (division of the American Chemical Society)
 NFPA - National Fire Protection Association

HMIS - Hazardous Materials Identification System
CFR - Code of Federal Regulations
SARA - Superfund Amendments and Reauthorization Act
DOT - US Department of Transportation
EC50 - Half maximal effective concentration
LD50 - Median lethal dose
LC50 - Median lethal concentration
SDS - Safety Data Sheet
PEL - Permissible Exposure Limit
TSCA - Toxic Substances Control Act