SAFETY DATA SHEET

1. Identification

Product identifier Crop Finish Plus

Other means of identification

Product code 31016

Recommended use Agricultural/ Horticultural Use- NPK Fertilizer- Refer to product label.

Recommended restrictions Refer to product label. **Manufacturer/Importer/Supplier/Distributor information**

Manufacturer

Company name Genesis Agri-Products, Inc.
Address 2522 Old Town Rd.

ddress 2522 Old Town Rd. Union Gap, WA 98903

United States

Telephone (509) 452-0302 **E-mail** Not available.

Emergency phone number CHEMTREC (24 hours):

USA. Canada, Puerto Rico 1-800-424-9300 Virgin Islands 1-800-424-9300 International Maritime +1 (703) 527-3887

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Acute toxicity, dermal Category 4
Reproductive toxicity Category 2
Hazardous to the aquatic environment, acute Category 2

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

Harmful if swallowed. Harmful in contact with skin. Suspected of damaging fertility or the unborn

child. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye

Category 2

protection/face protection.

Response If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If

exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Specific treatment (see this label). Rinse mouth. Take off contaminated clothing and wash

before reuse. Collect spillage.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: Crop Finish Plus

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Potassium Nitrate		7757-79-1	5 - < 10*
Mono potassium phosphate (MKP)		7778-77-0	3 - < 5*
Manganese EDTA, disodium salt		15375-84-5	< 1*
Cupric Sulfate, pentahydrate		7758-99-8	< 0.3*
Cobalt Sulfate, Monohydrate		10124-43-3	< 0.1*
Sodium Molybdate, Dihydrate		10102-40-6	< 0.1*
Other components below reportable leve	els		80 - < 90

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical

Direct contact with eyes may cause temporary irritation.

attention if irritation develops and persists. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data

sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media

Ingestion

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting

equipment/instructions

Use water spray to cool unopened containers.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Material name: Crop Finish Plus SDS US

Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. Minimize dust generation and accumulation. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not taste or swallow. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid contact with eyes. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Pregnant or breastfeeding women must not handle this product. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Practice good housekeeping. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components		Туре	•	/alue	
Manganese EDTA, disodium salt (CAS 15375-84-5)		Ceiling	Ę	5 mg/m3	
Sodium Molybdate, Dihydrate (CAS 10102-40-6)		PEL	Ę	5 mg/m3	
US. ACGIH Threshold	Limit Values				
Components		Туре	'	/alue	Form
Cobalt Sulfate, Monohydrate (CAS 10124-43-3)		TWA	(0.02 mg/m3	
Sodium Molybdate, Dihydrate (CAS 10102-40-6)		TWA	(0.5 mg/m3	Respirable fraction.
US. NIOSH: Pocket Gu	ide to Chemical H	łazards			
Components		Туре	'	/alue	Form
Cupric Sulfate, pentahydrate (CAS 7758-99-8)		TWA	•	1 mg/m3	Dust and mist.
Manganese EDTA, disodium salt (CAS 15375-84-5)		STEL	3	3 mg/m3	Fume.
,		TWA	•	1 mg/m3	Fume.
logical limit values					
ACGIH Biological Exp	osure Indices				
Components	Value	Determinant	Specimen	Sampling	Time
Cobalt Sulfate, Monohydrate (CAS 10124-43-3)	15 μg/l	Cobalt	Urine	*	
•	1 μg/l	Cobalt	Blood	*	

Material name: Crop Finish Plus

SDS US

Appropriate engineering

controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit

(OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Use tight fitting goggles if dust is generated. Chemical respirator with organic vapor cartridge, full Eye/face protection

facepiece, dust and mist filter.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full facepiece,

dust and mist filter.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Solid. Powder. **Appearance**

Solid. Physical state **Form** Powder. Color Not available. Not available. Odor **Odor threshold** Not available. Not available. Salt-Out / Crystallization Temp Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

0.00001 hPa estimated Vapor pressure

Vapor density Not available.

Relative density 1.338 g/cm3 (typical)

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity**

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces Conditions to avoid

> with compressed air). Strong oxidizing agents.

Incompatible materials

Hazardous decomposition

No hazardous decomposition products are known.

products

Product

11. Toxicological information

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Prolonged inhalation may be harmful. Inhalation of dusts may cause respiratory irritation. Inhalation

Skin contact Harmful in contact with skin.

Eye contact Dust in the eyes will cause irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Harmful in contact with skin. Harmful if swallowed. Not known.

Species

Crop Finish Plus (CAS Mix	xture)	
Acute		
Oral		
LD100	Mouse	25000 mg/kg estimated
LD50	Chicken	2458.3333 g/kg estimated
	Mouse	43396.4375 mg/kg estimated
	Rabbit	15732.5654 mg/kg estimated
Other		
LD50	Rabbit	4000.0005 g/kg estimated
Components	Species	Test Results

Test Results

Cobalt Sulfate, Monor	ydrate (CAS	10124-43-3)
-----------------------	-------------	-------------

Acute		
Oral		
LD50	Mouse	584 mg/kg
	Rabbit	1800 mg/kg
	Rat	424 mg/kg
Other		
LD100	Dog	16.2 mg/kg
LD50	Mouse	27.1 mg/kg
	Rat	18.2 mg/kg

Cupric Sulfate, pentahydrate (CAS 7758-99-8)

	,	
Acute		
Oral		
LD100	Mouse	50 mg/kg
LD50	Rat	960 mg/kg
Other		
LD50	Rabbit	> 8 g/kg
otassium phosphat	e (MKP) (CAS 7778-77-0)	
Acuto		

Mono po

Acute Oral

LD50 Mouse 1700 mg/kg

Material name: Crop Finish Plus

SDS US 895 Version #: 01 Issue date: 10-29-2015

Components Species Test Results

Potassium Nitrate (CAS 7757-79-1)

Acute

Oral

LD50 Rabbit 1166 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Cobalt Sulfate, Monohydrate (CAS 10124-43-3)

Reasonably Anticipated to be a Human Carcinogen.

Reproductive toxicity Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Product

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

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Crop Finish Plus (CAS Mixture)				
Aquatic				
Crustacea	EC50	Daphnia	3951.875 mg/l, 48 hours estimated	
Fish	LC50	Fish	278.1782 mg/l, 96 hours estimated	
Components		Species	Test Results	

Test Results

Cobalt Sulfate, Monohydrate (CAS 10124-43-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 3.75 mg/l, 96 hours

Species

Cupric Sulfate, pentahydrate (CAS 7758-99-8)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 0.0058 - 0.0073 mg/l, 48 hours
Fish LC50 Bluegill (Lepomis macrochirus) 0.66 - 1.15 mg/l, 96 hours

Potassium Nitrate (CAS 7757-79-1)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 1200 mg/l, 96 hours

Acute

Fish LC50 Fish 1378 - 3000 mg/l

Sodium Molybdate, Dihydrate (CAS 10102-40-6)

Aquatic

Crustacea EC50 Tubificid worm (Tubifex tubifex) 42.48 - 65.64 mg/l, 48 hours

Components **Species Test Results** LC50 Striped bass (Morone saxatilis) Fish > 79.8 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available. No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

IMDG Regulated Marine Pollutant.

DOT

Not regulated as dangerous goods.

IATA

UN3077 **UN** number

UN proper shipping name Transport hazard class(es) Environmentally hazardous substances, solid, n.o.s. (Cobalt Sulfate, Monohydrate)

Class 9 Subsidiary risk Label(s) 9 Ш Packing group Yes **Environmental hazards**

Other information

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo

aircraft

Forbidden.

Cargo aircraft only

Forbidden.

IMDG

UN3077 **UN** number

UN proper shipping name Transport hazard class(es) Environmentally hazardous substances, solid, n.o.s. (Cobalt Sulfate, Monohydrate)

Class 9 Subsidiary risk Label(s) 9 Packing group Ш **Environmental hazards**

> Yes Marine pollutant

Not available. **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

General information IMDG Regulated Marine Pollutant.

IATA; IMDG



Marine pollutant



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Cobalt Sulfate, Monohydrate (CAS 10124-43-3) Listed. Manganese EDTA, disodium salt (CAS 15375-84-5) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Potassium Nitrate7757-79-15 - < 10</td>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Cobalt Sulfate, Monohydrate (CAS 10124-43-3) Manganese EDTA, disodium salt (CAS 15375-84-5)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

Material name: Crop Finish Plus

US state regulations

US. Massachusetts RTK - Substance List

Cupric Sulfate, pentahydrate (CAS 7758-99-8)

Potassium Nitrate (CAS 7757-79-1)

US. New Jersey Worker and Community Right-to-Know Act

Cobalt Sulfate, Monohydrate (CAS 10124-43-3) Cupric Sulfate, pentahydrate (CAS 7758-99-8) Manganese EDTA, disodium salt (CAS 15375-84-5)

Potassium Nitrate (CAS 7757-79-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Cupric Sulfate, pentahydrate (CAS 7758-99-8)

Potassium Nitrate (CAS 7757-79-1)

US. Rhode Island RTK

Cobalt Sulfate, Monohydrate (CAS 10124-43-3) Manganese EDTA, disodium salt (CAS 15375-84-5) Potassium Nitrate (CAS 7757-79-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Cobalt Sulfate, Monohydrate (CAS 10124-43-3) Listed: May 20, 2005

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

Issue date 10-29-2015

Version # 01

United States & Puerto Rico

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its owns tests of the Product to determine suitability of the Product for user's particular use.

Material name: Crop Finish Plus sps us

Yes