

# SAFETY DATA SHEET



## FINISH® 6 PRO HARVEST AID FOR COTTON

Version 5.0 / USA  
102000025315

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Revision Date: 10/27/2020  
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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** FINISH® 6 PRO HARVEST AID FOR COTTON  
**Product code (UVP)** 80234651  
**SDS Number** 102000025315  
**EPA Registration No.** 264-703

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Plant growth regulator  
**Restrictions on use** See product label for restrictions.

#### Information on supplier

**Supplier** Bayer CropScience LP  
800 North Lindbergh Blvd.  
St. Louis, MO 63167  
USA  
**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-866-99BAYER (1-866-992-2937)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Serious eye damage: Category 1  
Skin irritation: Category 2  
Acute toxicity(Inhalation): Category 4  
Corrosive to metals: Category 1

#### Labelling in accordance with regulation HCS 29CFR §1910.1200



**Signal word:** Danger

**Hazard statements**

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Causes serious eye damage.  
May be corrosive to metals.  
Causes skin irritation.  
Harmful if inhaled.

### Precautionary statements

Wear protective gloves/ eye protection/ face protection.  
Keep only in original container.  
Wash thoroughly after handling.  
Avoid breathing mist/ spray.  
Use only outdoors or in a well-ventilated area.  
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/ physician.  
Absorb spillage to prevent material damage.  
IF ON SKIN: Wash with plenty of water/ soap.  
Specific treatment (see supplemental first aid instructions on this label).  
If skin irritation occurs: Get medical advice/ attention.  
Take off contaminated clothing and wash before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
Store in corrosive resistant container with a resistant inner liner.

### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Ethephon	16672-87-0	52.6
Cyclanilide	113136-77-9	3.3
Citric acid	77-92-9	4.4

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

**General advice** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

**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 physician or poison control center immediately.

**Skin contact** Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

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<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Most important symptoms and effects, both acute and delayed</b>	
<b>Symptoms</b>	Local:, Burns on skin and mucosal tissues Systemic:, Gastro-intestinal irritation, This product causes reversible cholinesterase inhibition without long term effects.
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Risks</b>	Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Must NOT be confused with organophosphorus compounds!
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

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## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

<b>Suitable</b>	Foam, Water, Carbon dioxide (CO <sub>2</sub> ), Dry chemical
<b>Unsuitable</b>	High volume water jet

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

### Advice for firefighters

**Special protective equipment for firefighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Evacuate personnel to safe areas. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** > 102 °C  
does not flash

**Auto-ignition temperature** No data available

**Lower explosion limit** 2.6 %(V)

**Upper explosion limit** 12.6 %(V)

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**Explosivity** Not applicable

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Precautions** Use personal protective equipment. Remove all sources of ignition. Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

#### Methods and materials for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice** Use personal protective equipment. If the product is accidentally spilled, do not allow to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

**Conditions for safe storage, including any incompatibilities**

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**Requirements for storage areas and containers** Protect from freezing.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Ethephon	16672-87-0	1.4 mg/m <sup>3</sup> (TWA)		OES BCS*
Cyclanilide	113136-77-9	0.21 mg/m <sup>3</sup> (TWA)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

#### Exposure controls

##### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

##### Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

##### Hand protection

Chemical-resistant gloves made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

##### Eye protection

Use tightly sealed goggles and face protection.

##### Skin and body protection

Consideration must be given both to durability as well as permeation resistance.

Wear long-sleeved shirt and long pants and shoes plus socks.

##### General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.

Keep and wash PPE separately from other laundry.

Eye wash facility and safety shower should be available.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>Colour</b>	brown
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	1.7 (1 %) (23 °C) (deionized water)
<b>Melting point/range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash point</b>	> 102 °C does not flash
<b>Flammability</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Minimum ignition energy</b>	Not applicable
<b>Self-accelarating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	12.6 %(V)
<b>Lower explosion limit</b>	2.6 %(V)
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Relative vapour density</b>	No data available
<b>Relative density</b>	No data available
<b>Density</b>	ca. 1.39 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	dispersible
<b>Partition coefficient: n-octanol/water</b>	Ethephon: log Pow: -1.89 Pow: 1,779 (21 °C) (pH 5) Pow: 1,779 (21 °C) (pH 9)
<b>Viscosity, dynamic</b>	450 - 900 mPa.s (25 °C)
<b>Viscosity, kinematic</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Explosivity</b>	Not applicable
<b>Other information</b>	Further safety related physical-chemical data are not known.

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

<b>Thermal decomposition</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions. Risk of ethylene emission in case of increasing pH. Corrodes metals in the presence of water or moisture. Corrodes aluminium.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Tin, Zinc, Iron, Copper, Bases, Aluminium
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of: Hydrogen chloride (HCl) Carbon oxides

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### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Eye contact, Ingestion, Inhalation, Skin Absorption
<b>Immediate Effects</b>	
<b>Eye</b>	Corrosive - causes irreversible eye damage.
<b>Skin</b>	Causes skin irritation. Harmful if absorbed through skin.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (male/female combined Rat) > 2,000 - < 5,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (Rat) > 2.5 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. No deaths
<b>Acute dermal toxicity</b>	LD50 (Rabbit) > 2,000 mg/kg
<b>Skin corrosion/irritation</b>	Moderate skin irritation. (Rabbit)
<b>Serious eye damage/eye irritation</b>	Corrosive - causes irreversible eye damage. (Rabbit)
<b>Respiratory or skin sensitisation</b>	Skin: Non-sensitizing. (Guinea pig)

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### Assessment STOT Specific target organ toxicity – single exposure

Ethephon: Based on available data, the classification criteria are not met.  
Cyclanilide: Based on available data, the classification criteria are not met.

### Assessment STOT Specific target organ toxicity – repeated exposure

Ethephon did not cause specific target organ toxicity in experimental animal studies.  
Cyclanilide did not cause specific target organ toxicity in experimental animal studies.

### Assessment mutagenicity

Ethephon was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.  
Cyclanilide was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Ethephon was not carcinogenic in lifetime feeding studies in rats and mice.  
Cyclanilide was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

None.

### NTP

None.

### IARC

None.

### OSHA

None.

### Assessment toxicity to reproduction

Ethephon did not cause reproductive toxicity in a two-generation study in rats.  
Cyclanilide caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Cyclanilide is related to parental toxicity.

### Assessment developmental toxicity

Ethephon did not cause developmental toxicity in rats and rabbits.  
Cyclanilide caused developmental toxicity only at dose levels toxic to the dams.  
No indication of developmental toxicity in animal tests.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Further information

Acute toxicity studies have been bridged from a similar formulation(s).  
The non-acute information pertains to the active ingredient(s).

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## SECTION 12: ECOLOGICAL INFORMATION



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<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) > 11 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient cyclanilide.  LC50 (Lepomis macrochirus (Bluegill sunfish)) 311 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient ethephon.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia (water flea)) 5 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient cyclanilide.  EC50 (Daphnia magna (Water flea)) 31.7 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient ethephon.
<b>Toxicity to aquatic plants</b>	EC50 (Raphidocelis subcapitata (freshwater green alga)) 13 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient ethephon.  EC50 (Raphidocelis subcapitata (freshwater green alga)) 1.7 mg/l Exposure time: 120 h The value mentioned relates to the active ingredient cyclanilide.  EC10 (Lemna gibba (gibbous duckweed)) 0.21 mg/l The value mentioned relates to the active ingredient ethephon.
<b>Biodegradability</b>	Ethephon: Not rapidly biodegradable Cyclanilide: Not rapidly biodegradable
<b>Koc</b>	Ethephon: Koc: 2540 Cyclanilide: Koc: 358
<b>Bioaccumulation</b>	Ethephon: Does not bioaccumulate. Cyclanilide: Bioconcentration factor (BCF) 0.36 Does not bioaccumulate.
<b>Mobility in soil</b>	Ethephon: Slightly mobile in soils Cyclanilide: Moderately mobile in soils
<b>Results of PBT and vPvB assessment</b>	
<b>PBT and vPvB assessment</b>	Ethephon: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB). Cyclanilide: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
<b>Additional ecological information</b>	No further ecological information is available.
<b>Environmental precautions</b>	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

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Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.  
Do not apply when weather conditions favor runoff or drift.  
Drift or runoff from treated areas may adversely affect non-target plants.  
Apply this product as specified on the label.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Product</b>	Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
<b>Contaminated packaging</b>	Triple rinse containers. Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities. If burned, stay out of smoke. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

### SECTION 14: TRANSPORT INFORMATION

#### 49CFR

UN number	<b>3265</b>
Class	8
Packaging group	III
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON)

#### IMDG

UN number	<b>3265</b>
Class	8
Packaging group	III
Marine pollutant	YES
Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (ETHEPHON SOLUTION)

#### IATA

UN number	<b>3265</b>
Class	8
Packaging group	III

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Environm. Hazardous Mark NO  
Proper shipping name CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(ETHEPHON SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INHIBITORS, MODIFIERS OR REGULATORS, plant growth

### SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 264-703

#### US Federal Regulations

##### TSCA list

Water 7732-18-5  
1,2-Propanediol 57-55-6  
Citric acid 77-92-9

#### US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

No export notification needs to be made.

#### SARA Title III - Section 302 - Notification and Information

Not applicable.

#### SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

#### US States Regulatory Reporting

##### CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Toluene 108-88-3 Developmental toxin.

#### US State Right-To-Know Ingredients

Ethephon	16672-87-0	CT
1,2-Propanediol	57-55-6	MN, RI
Pyrogenic (fumed) amorphous silica	112945-52-5	CA, CT, MN

#### Environmental

##### CERCLA

None.

##### Clean Water Section 307(a)(1)

None.

##### Safe Drinking Water Act Maximum Contaminant Levels

None.

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### EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Danger!

**Hazard statements:** Corrosive - causes irreversible eye damage.  
Harmful if swallowed, inhaled or absorbed through the skin.  
Causes skin irritation.

## SECTION 16: OTHER INFORMATION

### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

### NFPA 704 (National Fire Protection Association):

Health - 3      Flammability - 1      Instability - 1      Others - none

### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 3      Flammability - 1      Physical Hazard - 1      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** The following sections have been revised: Section 2: Hazards Identification. Section 5: Fire Fighting Measures. Section 9: Physical and Chemical Properties. Reviewed and updated for general editorial purposes.

**Revision Date:** 10/27/2020

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are

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