

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date : 2023/07/13  
Version: 5.0

Page: 1/14  
(30778997/SDS\_CPA\_US/EN)

### 1. Identification

#### Product identifier used on the label

## Finale XL T&O Herbicide

#### Recommended use of the chemical and restriction on use

Recommended use\*: crop protection product, herbicide

\* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

#### Details of the supplier of the safety data sheet

##### Company:

BASF CORPORATION  
100 Park Avenue  
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

#### Emergency telephone number

##### 24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300  
BASF HOTLINE: 1-800-832-HELP (4357)

#### Other means of identification

Substance number: 870945  
Registration number: EPA Registration number: 7969-464  
Synonyms: Glufosinate Ammonium

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### 2. Hazards Identification

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

#### Classification of the product

Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	1	Serious eye damage/eye irritation
Repr.	1B (fertility)	Reproductive toxicity
Repr.	2 (unborn child)	Reproductive toxicity

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 2/14

(30778997/SDS\_CPA\_US/EN)

STOT SE	1	Specific target organ toxicity — single exposure
STOT RE	2	Specific target organ toxicity — repeated exposure
Aquatic Acute	2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation

### Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H360	May damage fertility. Suspected of damaging the unborn child.
H370	Causes damage to organs (Nervous system).
H373	May cause damage to organs (Nervous system) through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P273	Avoid release to the environment.
P280	Wear eye protection.
P260	Do not breathe mist or vapour.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P270	Do not eat, drink or smoke when using this product.
P264	Wash contaminated body parts thoroughly after handling.

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.
P310	Immediately call a POISON CENTER or physician.
P308 + P313	IF exposed or concerned: Get medical attention.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P391	Collect spillage.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

P405	Store locked up.
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Precautionary Statements (Disposal):

P501	Dispose of contents/container in accordance with local regulations.
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# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 3/14

(30778997/SDS\_CPA\_US/EN)

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### 3. Composition / Information on Ingredients

#### According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt

CAS Number: 77182-82-2

Content (W/W): 24.5 %

Synonym: No data available.

Alcohols, C10-16, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO)

CAS Number: 68585-34-2

Content (W/W): 15.0 - 30.0%

Synonym: No data available.

D-Glucopyranose, oligomers, decyl octyl glycosides

CAS Number: 68515-73-1

Content (W/W): 5.0 - 10.0%

Synonym: No data available.

1-methoxypropan-2-ol

CAS Number: 107-98-2

Content (W/W): 0.3 - 3.0%

Synonym: 1-Methoxy-2-propanol; Propylene glycol monomethyl ether

(OLIGOMER) Alcohols, C10-16, ethoxylated (> 1 < 2.5 mol EO)

CAS Number: 68002-97-1

Content (W/W): 0.1 - 1.0%

Synonym: No data available.

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### 4. First-Aid Measures

#### Description of first aid measures

##### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing. Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

##### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

##### If on skin:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

##### If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

##### If swallowed:

Do not induce vomiting. Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 4/14

(30778997/SDS\_CPA\_US/EN)

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### Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., vomiting, diarrhea, abdominal cramps, tremors, hypotension (low blood pressure), weakness, unconsciousness, coma, convulsions, respiratory arrest, nausea, tachycardia, Symptoms may be delayed for several hours.

### Indication of any immediate medical attention and special treatment needed

#### Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote. Administer activated charcoal. If necessary, give oxygen. Monitor respiratory, cardiac and central nervous system. Medical monitoring for at least 24-48 hours.

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## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:  
water spray, dry powder, foam, carbon dioxide

Unsuitable extinguishing media for safety reasons:  
water jet

### Special hazards arising from the substance or mixture

Hazards during fire-fighting:  
carbon monoxide, carbon dioxide, hydrogen cyanide, nitrogen oxides, sulfur oxides, Phosphorus compounds  
The substances/groups of substances mentioned can be released in case of fire.

### Advice for fire-fighters

Protective equipment for fire-fighting:  
Wear self-contained breathing apparatus and chemical-protective clothing.

### Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.



# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 6/14

(30778997/SDS\_CPA\_US/EN)

### Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) TC23C Chemical/Mechanical type filter system to remove a combination of particles, gas and vapours. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

### Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

### Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

### General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## 9. Physical and Chemical Properties

Form:	liquid
Odour:	characteristic
Odour threshold:	Not determined since harmful by inhalation.
Colour:	red
pH value:	approx. 6 - 8 ( 23 °C) (undiluted)
Melting point:	The product has not been tested.
Boiling point:	approx. 100 °C Information applies to the solvent.
Flash point:	Non-flammable.
Flammability:	not applicable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Autoignition:	Based on the water content the product does not ignite.

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 7/14

(30778997/SDS\_CPA\_US/EN)

Vapour pressure:	The product has not been tested.
Density:	approx. 1.15 g/cm <sup>3</sup> ( 20 °C)
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, dynamic:	approx. 100 - 300 mPa.s ( 20 °C)
Solubility in water:	miscible
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

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## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

See SDS section 7 - Handling and storage.

### Incompatible materials

strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: ammonia

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

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## 11. Toxicological information

### Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

### Acute Toxicity/Effects

Acute toxicity

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 8/14

(30778997/SDS\_CPA\_US/EN)

Assessment of acute toxicity: Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. Of low toxicity after single ingestion. The product has not been tested. The statement has been derived from the properties of the individual components.

### Oral

Type of value: ATE

Value: 1,990 mg/kg

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Type of value: LD50*

*Species: rat (female)*

*Value: > 1,510 mg/kg (Conventional method)*

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### Inhalation

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Type of value: LC50*

*Species: rat (male)*

*Value: 1.26 mg/l (Conventional method)*

*Exposure time: 4 h*

*Tested as dust aerosol.*

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### Dermal

Type of value: ATE

Value: 4,380 mg/kg

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Type of value: LD50*

*Species: rabbit (male/female)*

*Value: 2,000 mg/kg bw (Conventional method)*

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### Assessment other acute effects

Assessment of STOT single:

A single exposure may have relevant toxic effects on organs.

Target organ: Nervous system

The product has not been tested. The statement has been derived from the properties of the individual components.

### Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Not irritating to the skin.

### Skin

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Species: rabbit*

*Result: non-irritant*

*Information on: Alcohols, C10-16, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO)*

*Species: rabbit*

*Result: Irritant.*

*Method: OECD Guideline 404*



# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 9/14

(30778997/SDS\_CPA\_US/EN)

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Eye

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Species: rabbit*

*Result: non-irritant*

*Method: EPA Guideline*

*Information on: Alcohols, C10-16, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO)*

*Species: In vitro assay*

*Result: Non corrosive.*

*Method: BCOP*

*The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.*

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### Sensitization

Assessment of sensitization: No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Buehler test*

*Species: guinea pig*

*Result: Non-sensitizing.*

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## **Chronic Toxicity/Effects**

### Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Assessment of repeated dose toxicity: Prolonged or repeated exposure may cause neurological disturbances.*

*Information on: 2-Propanol, 1-methoxy-*

*Assessment of repeated dose toxicity: The information available on the product provides no indication of toxicity on target organs after repeated exposure.*

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### Genetic toxicity

Assessment of mutagenicity: The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### Carcinogenicity

Assessment of carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### Reproductive toxicity

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13  
Version: 5.0

Page: 10/14  
(30778997/SDS\_CPA\_US/EN)

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*  
*Assessment of reproduction toxicity: Causes impairment of fertility in laboratory animals.*  
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### Teratogenicity

Assessment of teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*  
*Assessment of teratogenicity: The substance did not cause malformations in animal studies; however, toxicity to development was observed at doses that were toxic to the parental animals.*  
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### Other Information

Misuse can be harmful to health.

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## 12. Ecological Information

### **Toxicity**

#### Aquatic toxicity

Assessment of aquatic toxicity:

Toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Toxicity to fish

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*  
*LC50 (96 h) 461 mg/l, Pimephales promelas*  
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#### Aquatic invertebrates

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*  
*EC50 (48 h) > 100 mg/l, Daphnia magna*  
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#### Aquatic plants

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*  
*EC50 (72 h) 0.132 mg/l (growth rate), Anabaena flos-aquae*  
*No observed effect concentration (72 h) 0.039 mg/l, Anabaena flos-aquae*  
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### **Persistence and degradability**

#### Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components.

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13  
Version: 5.0

Page: 11/14  
(30778997/SDS\_CPA\_US/EN)

### Assessment biodegradation and elimination (H<sub>2</sub>O)

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Not readily biodegradable (by OECD criteria).*  
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### **Bioaccumulative potential**

#### Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Bioaccumulation potential

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Bioconcentration factor: < 1, Lepomis macrochirus*  
*Does not accumulate in organisms.*  
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### **Mobility in soil**

#### Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt*

*Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.*  
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### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## 13. Disposal considerations

### **Waste disposal of substance:**

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### **Container disposal:**

Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13  
Version: 5.0

Page: 12/14  
(30778997/SDS\_CPA\_US/EN)

### 14. Transport Information

#### Land transport

USDOT

Not classified as a dangerous good under transport regulations

#### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains GLUFOSINATE AMMONIUM)

#### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains GLUFOSINATE AMMONIUM)

#### Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

### 15. Regulatory Information

#### Federal Regulations

##### Registration status:

Crop Protection TSCA, US released / exempt

**EPCRA 311/312 (Hazard categories):** Refer to SDS section 2 for GHS hazard classes applicable for this product.

#### CERCLA RQ

100 LBS

#### CAS Number

107-98-2

#### Chemical name

1-methoxypropan-2-ol

#### State regulations

##### State RTK

##### CAS Number

##### Chemical name

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13  
Version: 5.0

Page: 13/14  
(30778997/SDS\_CPA\_US/EN)

NJ	107-98-2	1-methoxypropan-2-ol
PA	107-98-2	1-methoxypropan-2-ol
	25265-71-8	dipropylene glycol
	75-21-8	Ethylene Oxide
	123-91-1	1,4-dioxane

### Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

#### BASF Risk Assessment, CA Prop. 65:

Based on an evaluation of the product's composition and the use(s), this product does not require a California Proposition 65 Warning.

#### Labeling requirements under FIFRA

This chemical is a pesticide product regulated 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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

##### WARNING:

Causes substantial but temporary eye injury.

HARMFUL IF SWALLOWED.

HARMFUL IF ABSORBED THROUGH SKIN.

Prolonged or repeated skin contact may cause sensitization or allergic reactions.

KEEP OUT OF REACH OF CHILDREN.

Hazards to humans and domestic animals.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove contaminated clothing and wash before reuse.

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## 16. Other Information

### SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2023/07/13

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

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IMPORTANT: WHILE THE DESCRIPTIONS, DESIGNS, DATA AND INFORMATION CONTAINED HEREIN ARE PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE, IT IS PROVIDED FOR YOUR GUIDANCE ONLY. BECAUSE MANY FACTORS MAY AFFECT PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR TO USE. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE

# Safety Data Sheet

## Finale XL T&O Herbicide

Revision date: 2023/07/13

Version: 5.0

Page: 14/14

(30778997/SDS\_CPA\_US/EN)

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