

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

1/13  
Revision Date: 09/01/2020  
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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** HARNESS® MAX HERBICIDE  
**Product code (UVP)** 62293045  
**SDS Number** 102000039732  
**EPA Registration No.** 524-636

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

**Use** Herbicide  
**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

Acute toxicity(Oral): Category 4  
Skin sensitisation: Category 1  
Specific target organ toxicity - single exposure: Category 3  
Specific target organ toxicity - repeated exposure, Carcinogenicity: Category 2

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



**Signal word:** Warning

**Hazard statements**

# SAFETY DATA SHEET



## HARNESSE® MAX HERBICIDE

Version 2.0 / USA  
102000039732

2/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

Harmful if swallowed.  
May cause an allergic skin reaction.  
May cause respiratory irritation.  
Suspected of causing cancer.  
May cause damage to organs (Liver, Kidney) through prolonged or repeated exposure.

### Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe gas/ mist/vapours/ spray.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Wash thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Use only outdoors or in a well-ventilated area.  
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
IF ON SKIN: Wash with plenty of water/ soap.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Specific treatment (see supplemental first aid instructions on this label).  
Take off contaminated clothing and wash before reuse.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container in accordance with local regulation.

### 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
Acetochlor	34256-82-1	39.1
mesotrione; 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione	104206-82-8	3.7
Furilazole	121776-33-8	1.2

## 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.

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

3/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

<b>Skin contact</b>	Immediately wash with plenty of soap and water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.
<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.

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

<b>Symptoms</b>	May cause allergic skin reaction.
<b>Indication of any immediate medical attention and special treatment needed</b>	
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable** High volume water jet

**Special hazards arising from the substance or mixture** In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride (HCl)

### Advice for firefighters

**Special protective equipment for firefighters** In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.

In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information** 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** does not flash

**Auto-ignition temperature** No data available

**Lower explosion limit** Not applicable

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

4/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

**Upper explosion limit** Not applicable  
**Explosivity** Not explosive

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Precautions** Use personal protective equipment. Keep unauthorized people away. 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. Keep in suitable, closed containers for disposal. 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** Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

**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. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Keep working clothes separately. Garments that cannot be cleaned must be destroyed (burnt).

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

**Requirements for storage areas and containers** Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

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

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# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

5/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

No known occupational limit values.

#### 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.

##### Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)  
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

##### Eye protection

Use tightly sealed goggles and face protection.

##### Skin and body protection

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.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Form	suspension
Colour	off-white
Odour	odourless
Odour Threshold	No data available
pH	2 (100 %) (23 °C)
Melting point/range	No data available
Boiling Point	No data available

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

6/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

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<b>Flash point</b>	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-accelerating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	Not applicable
<b>Lower explosion limit</b>	Not applicable
<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>	1.07
<b>Density</b>	ca. 1.08 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	completely miscible
<b>Partition coefficient: n-octanol/water</b>	Acetochlor: log Pow: 4.14 (20 °C) Mesotrione: log Pow: 1.49 Furilazole: log Pow: 2.12 (23 °C)
<b>Viscosity, dynamic</b>	250 - 2,000 cps
<b>Viscosity, kinematic</b>	No data available
<b>Oxidizing properties</b>	No data available
<b>Explosivity</b>	Not explosive
<b>Other information</b>	Further safety related physical-chemical data are not known.

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## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	
<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.

# SAFETY DATA SHEET



## HARNESSE® MAX HERBICIDE

Version 2.0 / USA  
102000039732

7/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

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<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	No incompatible materials known.
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Skin contact, Eye contact, Inhalation
<b>Immediate Effects</b>	
<b>Eye</b>	Not expected to produce significant adverse effects when recommended use instructions are followed.
<b>Skin</b>	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	May cause respiratory tract irritation.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (Rat) 1,750 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (Rat) > 5.41 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. No deaths
<b>Acute dermal toxicity</b>	LD50 (Rat) > 5,000 mg/kg
<b>Skin corrosion/irritation</b>	Slight irritant effect - does not require labelling. (Rabbit)
<b>Serious eye damage/eye irritation</b>	No eye irritation (Rabbit)
<b>Respiratory or skin sensitisation</b>	Skin: Sensitising (Guinea pig) OECD Test Guideline 406, Buehler test The value mentioned relates to the active ingredient acetochlor. Skin: Sensitising (Guinea pig) OECD Test Guideline 406, Buehler test The value mentioned relates to the safener furilazole.

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

Acetochlor: May cause respiratory irritation.  
Mesotrione: Based on available data, the classification criteria are not met.  
Furilazole: Based on available data, the classification criteria are not met.

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

Acetochlor caused specific target organ toxicity in experimental animal studies in the following organ(s):  
Kidney.  
Mesotrione: May cause damage to organs (Eyes, Central nervous system) through prolonged or repeated exposure.

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

8/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

Furilazole caused specific target organ toxicity in experimental animal studies in the following organ(s):  
Liver.

### Assessment mutagenicity

Acetochlor was not genotoxic based on weight of evidence analysis.  
Mesotrione is not considered mutagenic.  
Furilazole was not genotoxic based on weight of evidence analysis.

### Assessment carcinogenicity

Acetochlor caused an increased incidence of tumours in rats in the following organ(s): Nasal, Thyroid.  
Mode(s) of action not relevant to humans.

Acetochlor caused an increased incidence of tumours in rats, mice in the following organ(s): Liver. Only above the MTD (maximum tolerated dose). The observed effects do not appear to be relevant for humans.

Acetochlor caused lung tumours and histocytic sarcomas in mice, probably not treatment related.  
Based on available data, the classification criteria are not met.

Furilazole caused an increased incidence of tumours in rats, mice in the following organ(s): Liver. Only at doses that caused significant hepatotoxicity. Questionable relevance to humans.

Furilazole caused an increased incidence of tumours in mice in the following organ(s): Lungs. Only at doses that caused chronic inflammation. Questionable relevance to humans.

Furilazole caused an increased incidence of tumours in rats in the following organ(s): forestomach. Only at doses that caused substantial irritation. The observed effects do not appear to be relevant for humans.

### ACGIH

None.

### NTP

None.

### IARC

None.

### OSHA

None.

### Assessment toxicity to reproduction

Reproductive effects in rats seen with Acetochlor are only in the presence of significant maternal toxicity.

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

Furilazole did not cause reproductive toxicity in laboratory animals.

### Assessment developmental toxicity

Developmental effects in rats seen with Acetochlor are only in the presence of significant maternal toxicity.

Acetochlor did not cause developmental toxicity in rabbits. Testicular damage in dogs only in the presence of substantial systemic toxicity.

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

Furilazole did not cause developmental toxicity in rabbits. The developmental effects seen with Furilazole are related to maternal toxicity.

### Aspiration hazard



# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

9/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

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

### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Lepomis macrochirus (Bluegill sunfish)) 1.3 mg/l static test; Exposure time: 96 h The value mentioned relates to the active ingredient acetochlor. LC50 (Oncorhynchus mykiss (rainbow trout)) 0.36 - 1.2 mg/l static test; Exposure time: 96 h The value mentioned relates to the active ingredient acetochlor. LC50 (Oncorhynchus mykiss (rainbow trout)) > 114 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient Mesotrione.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 8.6 - 16 mg/l static test; Exposure time: 48 h The value mentioned relates to the active ingredient acetochlor. EC50 (Daphnia magna (Water flea)) 840 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient Mesotrione.
<b>Toxicity to aquatic plants</b>	EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.00027 - 0.00149 mg/l static test; Exposure time: 96 h The value mentioned relates to the active ingredient acetochlor. EC50 (Raphidocelis subcapitata (freshwater green alga)) 1.9 mg/l Exposure time: 5 d The value mentioned relates to the active ingredient Mesotrione.
<b>Biodegradability</b>	Acetochlor: Not rapidly biodegradable Mesotrione: No data available Furilazole: 1 %, Exposure time: 28 d Not readily biodegradable.
<b>Koc</b>	Acetochlor: Koc: 204 Furilazole: Koc: 56 - 341
<b>Bioaccumulation</b>	Acetochlor: Bioconcentration factor (BCF) 20 Mesotrione: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected. Furilazole: No significant accumulation in organisms.
<b>Mobility in soil</b>	Acetochlor: Moderately persistent Mesotrione: Not persistent in soil.

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

10/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

Furilazole: Moderately persistent

### Results of PBT and vPvB assessment

**PBT and vPvB assessment** Acetochlor: 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).  
Mesotrione: 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).  
Furilazole: 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).

**Additional ecological information** No further ecological information is available.

**Environmental precautions** Apply this product as specified on the label.  
Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.  
Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.  
Do not allow to get into surface water, drains and ground water.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Product** It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines.  
Do not contaminate water, food, or feed by disposal.  
Incineration in a special incineration plant in accordance with the local waste regulation authority.  
Follow all local/regional/national/international regulations.

**Contaminated packaging** Follow advice on product label and/or leaflet.  
Do not re-use empty containers.  
Triple rinse containers.  
Puncture container to avoid re-use.  
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.

**RCRA Information** 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.

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## SECTION 14: TRANSPORT INFORMATION

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

11/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

**49CFR** Not dangerous goods / not hazardous material

### IMDG

UN number **3082**  
Class **9**  
Packaging group **III**  
Marine pollutant **YES**  
Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACETOCHLOR, MESOTRIONE SOLUTION)**

### IATA

UN number **3082**  
Class **9**  
Packaging group **III**  
Environm. Hazardous Mark **YES**  
Proper shipping name **ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ACETOCHLOR, MESOTRIONE 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.

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## SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 524-636

### US Federal Regulations

#### TSCA list

Water 7732-18-5  
1,2-Propanediol 57-55-6

#### 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

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

Acetochlor 34256-82-1

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

Furilazole 121776-33-8

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

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

12/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

reproductive harm.

### US State Right-To-Know Ingredients

1,2-Propanediol 57-55-6 MN, RI

### Environmental

#### CERCLA

None.

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

None.

#### Safe Drinking Water Act Maximum Contaminant Levels

Yes

Acetochlor 34256-82-1

### 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:** Caution!

**Hazard statements:** Harmful if swallowed.  
May cause allergic skin reaction.

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## 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

# SAFETY DATA SHEET



## HARNESS® MAX HERBICIDE

Version 2.0 / USA  
102000039732

13/13  
Revision Date: 09/01/2020  
Print Date: 09/01/2020

---

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

Health - 2      Flammability - 1      Instability - 1      Others - none

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

Health - 2      Flammability - 1      Physical Hazard - 1      PPE -

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

**Reason for Revision:** New Safety Data Sheet.

**Revision Date:** 09/01/2020

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