

## **WARRANT® HERBICIDE**

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Trade name WARRANT® HERBICIDE

Product code (UVP) 62293177

**SDS Number** 102000039842

**EPA Registration No.** 524-591

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

Skin sensitisation: Category 1

Respiratory sensitisation: Category 1

Specific target organ toxicity - single exposure: Category 3 Specific target organ toxicity - repeated exposure: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200







## WARRANT® HERBICIDE

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

## Signal word: Danger

#### **Hazard statements**

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

May cause damage to organs (Kidney) through prolonged or repeated

exposure.

## **Precautionary statements**

Do not breathe gas/ mist/vapours/ spray.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

In case of inadequate ventilation wear respiratory protection.

IF ON SKIN: Wash with plenty of water/ soap.

If skin irritation or rash occurs: Get medical advice/ attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/ physician.

Get medical advice/ attention if you feel unwell.

Wash contaminated clothing 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 health hazards not otherwise classified.

No physical hazards not otherwise classified.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Component Name	CAS-No.	Concentration % by weight
Acetochlor	34256-82-1	33.0
Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	9084-06-4	<3.5
Distillates (petroleum), hydrotreated light	64742-47-8	<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.



## WARRANT® HERBICIDE

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

Skin contact 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.

**Eye contact** 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.

Ingestion 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

**Symptoms** Breathing difficulties

Indication of any immediate medical attention and special treatment needed

**Treatment** 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 (CO2), Nitrogen oxides (NOx), Hydrogen

chloride (HCI)

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.

**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.

Specific hazards from the substance or mixture which can increase the fire

Flash point does not flash

Auto-ignition temperature No data available

Lower explosion limit Not applicable



## WARRANT® HERBICIDE

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

Upper explosion limit No data available

**Explosivity** Not explosive

#### **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.

#### **SECTION 7: HANDLING AND STORAGE**

#### Precautions for safe handling

**Advice on safe handling**Use only in area provided with appropriate exhaust ventilation. Handle

and open container in a manner as to prevent spillage.

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.



# **WARRANT® HERBICIDE**

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Distillates (petroleum), hydrotreated light	64742-47-8	200 mg/m3 (TWA)	2008	ACGIH
(Non-aerosol.)				
Distillates (petroleum), hydrotreated light	64742-47-8	100 mg/m3 (REL)	2005	NIOSH
Distillates (petroleum), hydrotreated light	64742-47-8	200 mg/m3 (TWA)	2008	ACGIH
(Non-aerosol.)				

#### **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 Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile

rubber or Viton)

**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 slight

Odour ThresholdNo data availablepH7.0 - 10.0 (100 %)Melting point/freezing pointca. 8 °C / 46.4 °F



## WARRANT® HERBICIDE

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

**Boiling Point** 

No data available

Flash point does not flash
Flammability No data available
Auto-ignition temperature No data available

Minimum ignition energyNot applicableSelf-accelaratingNo data available

decomposition temperature

(SADT)

Upper explosion limitNo data availableLower explosion limitNot applicable

Vapour pressureNo significant volatility.Evaporation rateNo data availableRelative vapour densityNo significant volatility.

Relative density 1.098

**Density** ca. 1.10 g/cm<sup>3</sup> (20 °C)

Water solubility soluble

Partition coefficient: n-

octanol/water

Acetochlor: log Pow: 4.14 (20 °C)

Viscosity, dynamic 100 - 250 mPa.s (10 °C)

Viscosity, kinematic No data available

Oxidizing properties No oxidizing properties

**Explosivity** Not explosive

**Other information** Further safety related physical-chemical data are not known.

## **SECTION 10: STABILITY AND REACTIVITY**

**Reactivity** Stable under normal conditions.

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.



## WARRANT® HERBICIDE

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

**Conditions to avoid** Extremes of temperature and direct sunlight.

**Incompatible materials** No incompatible materials known.

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Skin contact, Eye contact, Inhalation

**Immediate Effects** 

Eye Not expected to produce significant adverse effects when

recommended use instructions are followed.

**Skin** Harmful if absorbed through skin. May cause sensitisation by skin

contact.

Ingestion Not expected to produce significant adverse effects when

recommended use instructions are followed.

**Inhalation** Harmful if inhaled.

Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 5,000 mg/kg

Acute inhalation toxicity LC50 (Rat) > 5.11 mg/l

Exposure time: 4 h

Acute dermal toxicity LD50 (Rat) > 5,000 mg/kg

**Skin corrosion/irritation** No skin irritation (Rabbit)

Serious eye damage/eye

irritation

Slight irritant effect - does not require labelling. (Rabbit)

Respiratory or skin

sensitisation

Skin: Sensitising (Guinea pig)

OECD Test Guideline 406, Buehler test May cause sensitisation by skin contact.

Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons.

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

Acetochlor: May cause respiratory irritation.

## Assessment STOT Specific target organ toxicity - repeated exposure

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

#### Assessment mutagenicity

In vitro and in vivo mutagenicity tests do not indicate genotoxic activity.

## **Assessment mutagenicity**



## WARRANT® HERBICIDE

 Version 3.0 / USA
 Revision Date: 04/12/2022

 102000039842
 Print Date: 04/13/2022

Acetochlor 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.

#### **ACGIH**

Distillates (petroleum), hydrotreated light 64742-47-8 Group A3

**NTP** 

None.

**IARC** 

Distillates (petroleum), hydrotreated light 64742-47-8 Overall evaluation: 3

## Assessment toxicity to reproduction

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

## 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.

#### **Aspiration hazard**

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

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** 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.

Toxicity to aquatic invertebrates

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.

0.00149 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient acetochlor.



## WARRANT® HERBICIDE

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

**Biodegradability** Acetochlor:

Not rapidly biodegradable

Koc Acetochlor: Koc: 204

**Bioaccumulation** Acetochlor: Bioconcentration factor (BCF) 20

Mobility in soil Acetochlor: 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).

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.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Product** Dispose in accordance with all local, state/provincial and federal

regulations.

Contaminated packaging Consult state and local regulations regarding the proper disposal of

container.

Follow advice on product label and/or leaflet.

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.

#### **SECTION 14: TRANSPORT INFORMATION**

**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 SOLUTION)



10/12

# **WARRANT® HERBICIDE**

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

**IATA** 

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ACETOCHLOR 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: COMPOUNDS, TREE OR WEED KILLING, N.O.I. other than

poison, HAVING A DENSITY OF 20 LBS OR GREATER PER

**CUBIC FOOT** 

#### **SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 524-591

**US Federal Regulations** 

**TSCA list** 

Water 7732-18-5
Glycerine 56-81-5
Urea 57-13-6
Naphthalenesulfonic acid, polymer with 9084-06-4

formaldehyde, sodium salt

Distillates (petroleum), hydrotreated light 64742-47-8

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.

Acetochlor 34256-82-1 Carcinogenic.

**US State Right-To-Know Ingredients** 

Glycerine 56-81-5 MN, RI
Urea 57-13-6 MN
Distillates (petroleum), hydrotreated light 64742-47-8 CT, NJ, RI



# **WARRANT® HERBICIDE**

Version 3.0 / USA Revision Date: 04/12/2022 102000039842 Print Date: 04/13/2022

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 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 for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

**Hazard statements:** Harmful if inhaled or absorbed through skin.

May cause allergic skin reaction.

Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

## **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



## WARRANT® HERBICIDE

Version 3.0 / USA 102000039842

Revision Date: 04/12/2022 Print Date: 04/13/2022

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:** The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 8: Exposure Controls / Personal Protection. Section 11: Toxicological information on STOT (Specific Target Organ Toxicity) and CMR (Carcinogenic, Mutagenic and toxic to Reproduction). Reviewed and updated for general editorial purposes.

**Revision Date:** 04/12/2022

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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 registered trademarks of Bayer.