

## TRIPLEFLEX® II HERBICIDE

Revision Date: 09/11/2020 Version 2.0 / USA 102000039843 Print Date: 09/14/2020

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

**Product identifier** 

Trade name TRIPLEFLEX® II HERBICIDE

Product code (UVP) 62293185

**SDS Number** 102000039843

**EPA Registration No.** 524-614

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

1-800-334-7577

Emergency telephone no.

**Emergency Telephone** 

Number (24hr/ 7 days)

**Product Information Telephone Number** 

1-866-99BAYER (1-866-992-2937)

### **SECTION 2: HAZARDS IDENTIFICATION**

Classification in accordance with regulation HCS 29CFR §1910.1200

Eye irritation: Category 2A Skin sensitisation: Category 1

Carcinogenicity, Specific target organ toxicity - repeated exposure: Category 2

Specific target organ toxicity - single exposure: Category 3

Labelling in accordance with regulation HCS 29CFR §1910.1200





Signal word: Warning **Hazard statements** 



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Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

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

May cause respiratory irritation.

### **Precautionary statements**

Wash thoroughly after handling.

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

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe gas/ mist/vapours/ spray.

Avoid breathing mist/ vapours/ 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.

If eye irritation persists: Get medical advice/ attention.

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).

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/ attention.

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

Call a POISON CENTER/doctor/physician if you feel unwell.

Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

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	41.67
Clopyralid monoethanolamine salt	57754-85-5	4.27
Flumetsulam	98967-40-9	1.3
Furilazole	121776-33-8	0.99
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1.5
Naphthalene	91-20-3	0.1



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### **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 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.

Hold eye open and rinse slowly and gently with water for 15-20 Eye contact

> 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

May cause allergic skin reaction. **Symptoms** 

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

Advice for firefighters

In the event of fire the following may be released:, Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Hydrogen

chloride (HCI)

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.



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**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.

> 100 °C Flash point

**Auto-ignition temperature** No data available Lower explosion limit Not applicable **Upper explosion limit** Not applicable **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 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



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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.

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

## **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	200 mg/m3 (TWA)	03 2014	ACGIH
(Non-aerosol.)				
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	100 mg/m3 (REL)	2010	NIOSH
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,600 mg/m3/400 ppm (TWA PEL)	08 2010	US CA OEL
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	50 mg/m3/10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	2010	NIOSH
Naphthalene	91-20-3	50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	0.5 mg/m3/0.1 ppm (TWA PEL)	10 2014	US CA OEL
Naphthalene	91-20-3	10 ppm (TLV)		OES BCS*

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

## **Biological occupational exposure limits**

Components	CAS-No.	Parameters	Biological specimen	Sampling time	Conc.	Basis
Naphthalene	91-20-3	1-Naphthol, with hydrolysis + 2-Naphthol, with hydrolysis		Sampling time: End of shift.		ACGIH BEI



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### **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 liquid
Colour tan
Odour mild

Odour Threshold No data available

**pH** 4.31

Melting point/range Not applicable

Boiling point/boiling range

No data available

Flash point > 100 °C

Flammability

No data available

Auto-ignition temperature

No data available

Minimum ignition energy

Not applicable



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**Self-accelarating** 

decomposition temperature

(SADT)

No data available

Upper explosion limitNot applicableLower explosion limitNot applicableVapour pressureNo data availableEvaporation rateNo data availableRelative vapour densityNo data available

Relative density

No data available

**Density** ca. 1.09 g/cm<sup>3</sup> (20 °C)

Water solubility No data available

Partition coefficient: n-

octanol/water

Acetochlor: log Pow: 4.14 (20 °C)

Clopyralid: log Pow: < 3

Furilazole: log Pow: 2.12 (23 °C)

Viscosity, dynamic No data available
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

**Thermal decomposition** 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.

**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.



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

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

**Immediate Effects** 

Eye Moderate eye irritation may occur.

Skin Prolonged or frequently repeated skin contact may cause allergic

reactions in some individuals.

Ingestion May be harmful if swallowed.

Inhalation Not expected to produce significant adverse effects when

recommended use instructions are followed.

Information on toxicological effects

Acute oral toxicity LD50 (female Rat) > 2,000 mg/kg

Test conducted with a similar formulation.

No deaths

Acute inhalation toxicity LC50 (male/female combined Rat) > 5.6 mg/l

Exposure time: 4 h

No deaths

Test conducted with a similar formulation.

LD50 (male/female combined Rat) > 2,000 mg/kg Acute dermal toxicity

Test conducted with a similar formulation.

No deaths

Skin corrosion/irritation Slight irritant effect - does not require labelling.

Test conducted with a similar formulation.

Serious eye damage/eye

Moderate eye irritation. irritation

Test conducted with a similar formulation.

Respiratory or skin Skin: Sensitising (Mouse)

sensitisation Test conducted with a similar formulation.

# Assessment STOT Specific target organ toxicity - single exposure

Acetochlor: May cause respiratory irritation.

No data available

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):

Clopyralid: This information is not available.

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

### Assessment mutagenicity

Acetochlor was not genotoxic based on weight of evidence analysis.

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

Furilazole was not genotoxic based on weight of evidence analysis.

### Assessment carcinogenicity



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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.

Clopyralid: 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**

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	Group A3
Naphthalene	91-20-3	Group A3

NTP

Naphthalene 91-20-3

**IARC** 

Naphthalene 91-20-3 Overall evaluation: 2B

**OSHA** 

None.

### Assessment toxicity to reproduction

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

Clopyralid: 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**

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

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



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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)) > 300 mg/l

static test; Exposure time: 96 h

The value mentioned relates to the active ingredient Flumetsulam.

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.

LC50 (Daphnia magna (Water flea)) > 300 mg/l static test; Exposure

time: 48 h

The value mentioned relates to the active ingredient Flumetsulam.

**Toxicity to aquatic plants** 

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 (Lemna gibba (gibbous duckweed)) 0.0051 mg/l

static test; Exposure time: 14 d

The value mentioned relates to the active ingredient Flumetsulam.

Biodegradability

Acetochlor:

Not rapidly biodegradable

Clopyralid:

Not rapidly biodegradable

Furilazole: 1 %, Exposure time: 28 d

Not readily biodegradable.

**Koc** Acetochlor: Koc: 204

Clopyralid: log Koc: 0 - 50 Furilazole: Koc: 56 - 341

**Bioaccumulation** 

Acetochlor: Bioconcentration factor (BCF) 20 Clopyralid: Bioconcentration factor (BCF) < 100

Does not bioaccumulate.

Furilazole:

No significant accumulation in organisms.

Mobility in soil

Acetochlor: Moderately persistent Clopyralid: Highly mobile in soils 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).

Clopyralid: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be



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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.

### **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.

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

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

**IMDG** 

UN number 3082
Class 9
Packaging group III
Marine pollutant YES



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Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ACETOCHLOR, FLUMETSULAM 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, FLUMETSULAM 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.

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

**EPA Registration No.** 524-614

**US Federal Regulations** 

**TSCA list** 

1,2-Propanediol 57-55-6 Solvent Naphtha (petroleum), heavy 64742-94-5

aromatic

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.

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.

Furilazole 121776-33-8

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

Naphthalene 91-20-3

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

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



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1,2-Propanediol57-55-6MN, RISolvent Naphtha (petroleum), heavy64742-94-5CT, NJ, RI

aromatic

Environmental CERCLA None.

Clean Water Section 307(a)(1)

Yes

Naphthalene 91-20-3
Safe Drinking Water Act Maximum Contaminant Levels

Yes

Acetochlor 34256-82-1

Yes

Naphthalene 91-20-3

### **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: Warning!

**Hazard statements:** Causes substantial but temporary eye injury.

Harmful if swallowed.

Harmful if absorbed through skin.

### **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



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WHO World health organisation

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 0 Instability - 0 Others - none

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

Health - 2 Flammability - 0 Physical Hazard - 0 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:** 09/11/2020

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