

SAFETY DATA SHEET



CONVERGE® 480 HERBICIDE

Version 4.0 / CDN
102000011665

1/12
Revision Date: 10/02/2023
Print Date: 08/14/2024

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

Product identifier

Trade name	CONVERGE® 480 HERBICIDE
Product code (UVP)	06363156
SDS Number	102000011665

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 Inc #200, 160 Quarry Park Blvd, SE Calgary, Alberta T2C 3G3 Canada
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	1-888-283-6847

SECTION 2: HAZARDS IDENTIFICATION

Classified in accordance with Part 2 of the Hazardous Products Regulations
Specific target organ toxicity - repeated exposure: Category 2

Labelling in accordance with Part 3 of the Hazardous Products Regulations



Signal word: Warning

Hazard statements

May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

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Do not breathe mist or vapours.
Get medical advice/ attention if you feel unwell.
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
Atrazine	1912-24-9	43.5
Ethenediol	107-21-1	$\geq 5 - < 10$
Tridecyl alcohol ethoxylate	9043-30-5	$\geq 1 - < 5$

The specific chemical identity and/or concentration range is being withheld because it is trade secret information.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately. Wash contaminated clothing before re-use.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
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 No symptoms known or expected.

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.

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SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable	Water spray, Foam, Carbon dioxide (CO ₂), Dry powder
Unsuitable	High volume water jet

Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.
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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.
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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.
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Specific hazards from the substance or mixture which can increase the fire

Flash point	does not flash
Auto-ignition temperature	> 650 °C / 1202 °F
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	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
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Methods and materials for containment and cleaning up

Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
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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 Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion No special precautions required.

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 soiled clothing immediately and clean thoroughly before using again. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing. Keep away from direct sunlight.

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
Atrazine (Inhalable fraction.)	1912-24-9	2 mg/m ³ (TWA)	08 2017	CAD ON OEL
Atrazine	1912-24-9	5 mg/m ³ (TWA)	10 2006	CAD AB OEL
Atrazine	1912-24-9	5 mg/m ³ (TWA)	07 2007	CAD BC OEL
Atrazine (Inhalable dust.)	1912-24-9	2 mg/m ³ (TWA)	04 2022	OEL (QUE)

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Atrazine (Inhalable fraction.)	1912-24-9	2 mg/m3 (TWA)	03 2017	CAD MB OEL
Atrazine	1912-24-9	5 mg/m3 (TWA)	12 2008	OEL (QUE)
Atrazine	1912-24-9	10 mg/m3 (15 MIN ACL)	05 2009	CAD SK OEL
Atrazine	1912-24-9	2 mg/m3 (TWA)		OES BCS*
Ethanediol	107-21-1	100 mg/m3 (CEILING)	07 2009	CAD AB OEL
Ethanediol (Vapor.)	107-21-1	50 ppm (CEILING)	09 2011	CAD BC OEL
Ethanediol (Particulate.)	107-21-1	20 mg/m3 (STEL)	09 2011	CAD BC OEL
Ethanediol (Aerosol.)	107-21-1	100 mg/m3 (CEILING)	09 2011	CAD BC OEL
Ethanediol (Particulate.)	107-21-1	10 mg/m3 (TWA)	09 2011	CAD BC OEL
Ethanediol (Aerosol.)	107-21-1	100 mg/m3 (CEILING)	03 2011	CAD MB OEL
Ethanediol (Aerosol.)	107-21-1	100 mg/m3 (CEV)	11 2010	CAD ON OEL
Ethanediol (Aerosol.)	107-21-1	100 mg/m3 (CEILING)	05 2009	CAD SK OEL
Ethanediol (Vapor and mist.)	107-21-1	127 mg/m3/50 ppm (CEILING)	11 2011	OEL (QUE)
Ethanediol (Vapor.)	107-21-1	10 ppm (TWA)		OES BCS*
Ethanediol (Aerosol.)	107-21-1	10 mg/m3 (TWA)		OES BCS*

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

Exposure controls

Personal protective equipment

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

Respiratory protection

When respirators are required, select NIOSH approved equipment

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	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	Safety glasses with side-shields
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, suspension
Colour	white
Odour	odourless
Odour Threshold	No data available
pH	8 (100 %) (25 °C)
Freezing temperature	-5 °C
Boiling point/boiling range	212 - 223 °C
Flash point	does not flash
Flammability	No data available
Auto-ignition temperature	> 650 °C
Thermal decomposition	No data available
Minimum ignition energy	No data available
Self-accelarating decomposition temperature (SADT)	No data available
Upper explosion limit	Not applicable
Lower explosion limit	Not applicable
Vapour pressure	1.9998 hPa (20 °C)
Evaporation rate	No data available
Relative vapour density	No data available
Relative density	No data available
Density	ca. 1.05 g/cm ³ (20 °C)

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Water solubility	No data available
Partition coefficient: n-octanol/water	log Pow: 2.5 The value mentioned relates to the active ingredient atrazine.
Partition coefficient: n-octanol/water	Atrazine: log Pow: 2.7
Viscosity, dynamic	260 - 600 mPa.s
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.
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	Eye contact, Inhalation, Skin contact, Ingestion
Immediate Effects	
Eye	May cause temporary eye irritation.
Skin	Not expected to produce significant adverse effects when recommended use instructions are followed.
Ingestion	Harmful if swallowed.
Inhalation	Not expected to produce significant adverse effects when recommended use instructions are followed.
Information on toxicological effects	

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Acute oral toxicity	LD50 (Rat) > 5,000 mg/kg
Acute inhalation toxicity	LC50 (Rat) > 2.72 mg/l Exposure time: 4 h
Acute dermal toxicity	LD50 (Rat) > 5,050 mg/kg
Skin corrosion/irritation	No skin irritation (Rabbit)
Serious eye damage/eye irritation	Minimally irritating. (Rabbit)
Respiratory or skin sensitisation	Skin: Non-sensitizing. (Guinea pig)

Assessment STOT Specific target organ toxicity – single exposure

Atrazine: Based on available data, the classification criteria are not met.
Ethanediol: This information is not available.

Assessment STOT Specific target organ toxicity – repeated exposure

Atrazine caused specific target organ toxicity in experimental animal studies in the following organ(s):
Heart.
Ethanediol: May cause damage to organs (Kidney) through prolonged or repeated exposure.

Assessment mutagenicity

Atrazine is not considered mutagenic.
Ethanediol: Based on available data, the classification criteria are not met.

Assessment carcinogenicity

Atrazine caused mammary tumours in rats. Mode(s) of action not relevant to humans.
Ethanediol was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Atrazine	1912-24-9	Group A3
Ethanediol	107-21-1	Group A4

NTP

None.

IARC

Atrazine	1912-24-9	Overall evaluation: 3
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ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

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Assessment toxicity to reproduction

Atrazine did not cause reproductive toxicity in laboratory animals.
Ethanediol: Based on available data, the classification criteria are not met.

Assessment developmental toxicity

Developmental effects in rats, rabbits seen with Atrazine are only in the presence of significant maternal toxicity.
Ethanediol in animal studies the substance caused malformations when given at high doses.

Aspiration hazard

No data available

Further information

Only acute toxicity studies have been performed on the formulated product.
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Trout) 4.5 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient atrazine.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 6.9 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient atrazine.
Biodegradability	Moderately/partially biodegradable.
Biodegradability	Atrazine: Not readily biodegradable.
Bioaccumulation	Bioconcentration factor (BCF): < 500 Does not bioaccumulate.
Bioaccumulation	Atrazine: On the basis of the partition coefficient n-octanol/water (log Pow) no significant accumulation in organisms is expected.
Mobility in soil	Moderately mobile in soils
Mobility in soil	Atrazine: Mobile in soils
Results of PBT and vPvB assessment	
PBT and vPvB assessment	Atrazine: 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).
Environmental precautions	Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

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Do not apply when weather conditions favor runoff or drift.
Drift or runoff from treated areas may adversely affect non-target plants.
Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

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.

SECTION 14: TRANSPORT INFORMATION

TDG

UN number	3082
Labels	9
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ATRAZINE)

49CFR	Not dangerous goods / not hazardous material
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IMDG

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

IATA

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

Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1.

This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.

SECTION 15: REGULATORY INFORMATION

PMRA Information:

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product regulated by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

Hazard statements: Harmful if swallowed.
May cause eye irritation.

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

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

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NFPA 704 (National Fire Protection Association):

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

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

Health - 1* Flammability - 0 Physical Hazard - 0 PPE -

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

* = chronic health hazard

Reason for Revision: The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 9: Physical and Chemical Properties. Section 11: Toxicological Information. Section 16: Other Information. Reviewed and updated for general editorial purposes.

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

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