

Safety Data Sheet CONVERGE® FLEXX HERBICIDE

SDS Number: 102000014305 SDS Version 1.2 Revision Date: 03/04/2014 Print Date: 03/04/2014

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name CONVERGE® FLEXX HERBICIDE

SDS Number 102000014305
Product code (UVP) 79024274
PCP Registration No. 29071
Product Use Herbicide

Bayer CropScience Inc

#200, 160 Quarry Park Blvd, SE Calgary, Alberta T2C 3G3

Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)

For Product Information call: 1-888-283-6847

SECTION 2. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Harmful if swallowed or absorbed through skin. Moderate eye irritation.

Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Wash

thoroughly with soap and water after handling.

Physical State liquid suspension

Odor weak characteristic

Appearance light beige

Exposure routes Ingestion, Skin contact, Eye contact, Inhalation

Immediate Effects

Eye Moderate eye irritation.

Skin Harmful if absorbed through skin.

Ingestion Harmful if swallowed.

Chronic or Delayed

Long-Term

This product or its components may have long term (chronic) health effects. This

product or its components may have target organ effects.

Potential Environmental

Effect

This product may cause adverse effects on non-target plants.



Safety Data Sheet CONVERGE® FLEXX HERBICIDE

SDS Number: 102000014305 SDS Version 1.2

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Isoxaflutole	141112-29-0	20.00
Cyprosulfamide	221667-31-8	20.00
Glycerine	56-81-5	7.00
Alkyl polyglycoside		3.50

SECTION 4. FIRST AID MEASURES

General When possible, have the product container or label with you when calling a

poison control center or doctor or going for treatment.

Eye 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.

Skin 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.

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.

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.

Notes to physician

Signs and Symptoms

To date no symptoms are known.

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's

condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point $> 100 \,^{\circ}\text{C} / 212 \,^{\circ}\text{F}$

Autoignition temperature 465 °C / 869 °F

Lower Flammability

no data available

Limit



Safety Data Sheet

CONVERGE® FLEXX HERBICIDE

SDS Number: 102000014305
SDS Version 1.2

Upper Flammability Limit no data available

Explosiveness Not explosive

Fire and Explosion

Hazards

Dangerous gases are evolved in the event of a fire.

Suitable extinguishing

media

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

Unsuitable extinguishing

media

High volume water jet

Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Do not allow run-off from fire fighting to enter drains or water

courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus

and full protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled

product or contaminated surfaces.

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 floors and contaminated objects with plenty of water. Clean contaminated floors and objects thoroughly, observing

environmental regulations.

Additional advice Use personal protective equipment. Do not allow to enter soil, waterways or

waste water canal. Do not allow product to contact non-target plants.

SECTION 7. HANDLING AND STORAGE

Handling procedures Handle and open container in a manner as to prevent spillage. Maintain

exposure levels below the exposure limit through the use of general and local

exhaust ventilation.

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.



Safety Data Sheet CONVERGE® FLEXX HERBICIDE

SDS Number: 102000014305 SDS Version 1.2

Work/Hygienic Procedures

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. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection 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.

Eye/Face Protection Safety glasses with side-shields

Hand protection Chemical resistant nitrile rubber gloves

Body Protection Wear long-sleeved shirt and long pants and shoes plus socks.

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.

Exposure Limits

Isoxaflutole	141112-29-0	OES BCS*	TWA	1.4 mg/m3
Cyprosulfamide	221667-31-8	OES BCS*	OES BCS	10 mg/m3
Glycerine	56-81-5	CAD AB OEL	TWA	10 mg/m3
•		CAD BC OEL	TWA	3 mg/m3
		CAD BC OEL	TWA	10 mg/m3
		CAD ON OEL	TWAEV	10 mg/m3
		CAD SK OEL	8 HR ACL	10 mg/m3
		CAD SK OEL	15 MIN ACL	20 mg/m3
		OEL (QUE)	TWA	10 mg/m3

^{*}OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance light beige

Physical State liquid suspension

Odor weak characteristic



SDS Number: 102000014305 SDS Version 1.2

Safety Data Sheet CONVERGE® FLEXX HERBICIDE

pH 4 - 6 (100 %) at 23 °C

Vapor Pressure no data available

Vapor Density (Air = 1) no data available

Density ca. 1.20 g/cm³ at 20 °C

Evapouration rate no data available

Boiling Point no data available

Melting / Freezing Point no data available

Water solubility miscible

Minimum Ignition Energy not applicable

Decomposition temperature

Stable under normal conditions.

Partition coefficient: n-

octanol/water

no data available

Viscosity 300 - 550 mPa.s at 20 °C

Velocity gradient 20 /s

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

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatibility Store only in the original container.

Hazardous Decomposition Products

No decomposition products expected under normal conditions of use.

Hazardous reactions No hazardous reactions when stored and handled according to prescribed

instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the technical-grade active ingredient, Isoxaflutole, as well as, the hericide safener, Cyprosulfamide.

Acute oral toxicity female rat: LD50: > 2,000 mg/kg



SDS Number: 102000014305 SDS Version 1.2

Safety Data Sheet CONVERGE® FLEXX HERBICIDE

Acute dermal toxicity rat: LD50: > 2,000 mg/kg

Acute inhalation toxicity rat: LC50: > 2.674 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol.

Highest attainable concentration.

No deaths

Skin irritation rabbit: No skin irritation

Eye irritation rabbit: Mild eye irritation.

Sensitisation mouse: Non-sensitizing.

OECD Test Guideline 429, local lymph node assay (LLNA)

Chronic toxicity Isoxaflutole caused specific target organ toxicity in experimental animal studies

in the following organ(s): liver, thyroid. The observed effects do not appear to be

relevant for humans.

Cyprosulfamide did not cause specific target organ toxicity in experimental

animal studies.

Assessment Carcinogenicity

Isoxaflutole caused at high dose levels an increased incidence of tumours in the following organ(s): liver. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

Cyprosulfamide caused at high dose levels an increased incidence of tumours in the following organ(s): urinary bladder, kidneys. The tumours seen with Cyprosulfamide were caused through the chronic irritation due to the presence of bladder stones. The mechanism that triggers tumours in rodents is not relevant for the low exposures encountered under normal use conditions.

ACGIH

None.

NTP

None.

IARC

None.

OSHA None.

Reproductive toxicity Isoxaflutole did not cause reproductive toxicity in a two-generation study in rats.

Cyprosulfamide did not cause reproductive toxicity in a two-generation study in

rats.

Developmental Toxicity Isoxaflutole caused developmental toxicity only at dose levels toxic to the dams.

Isoxaflutole caused a delayed ossification of foetuses. The developmental

effects seen with Isoxaflutole are related to maternal toxicity.



Safety Data Sheet CONVERGE® FLEXX HERBICIDE

SDS Number: 102000014305 SDS Version 1.2

Cyprosulfamide did not cause developmental toxicity in rats and rabbits.

Mutagenicity Isoxaflutole was not mutagenic or genotoxic in a battery of in vitro and in vivo

tests.

Cyprosulfamide was not mutagenic or genotoxic in a battery of in vitro and in

vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to fish Oncorhynchus mykiss (rainbow trout)

LC50: > 100 mg/l Exposure time: 96 h

Toxicity to aquatic plants Pseudokirchneriella subcapitata

IC50: 19.8 mg/l Exposure time: 72 h

Lemna gibba (duckweed) EC50: 0.0494 mg/l Exposure time: 7 d

Acute Toxicity to Aquatic

Invertebrates

Water flea (Daphnia magna)

EC50: > 100 mg/l Exposure time: 48 h

Environmental precautions

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 apply when weather conditions favor runoff or drift. Drift or runoff from treated areas may adversely affect non-target plants. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.

Apply this product as specified on the label.

Ecological Information No other effects to be mentioned.



Safety Data Sheet CONVERGE® FLEXX HERBICIDE

SDS Number: 102000014305 SDS Version 1.2

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance

Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Follow advice on product label and/or leaflet.

Container Disposal

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

SECTION 14. TRANSPORT INFORMATION

TDG Not dangerous goods / not hazardous material

49CFR Not dangerous goods / not hazardous material

IMDG

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ISOXAFLUTOLE SOLUTION)

IATA

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

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(ISOXAFLUTOLE 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 WEEDKILLING, N.O.I., other than poison;

HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT

SECTION 15. REGULATORY INFORMATION

PCP Registration No. 29071



Safety Data Sheet CONVERGE® FLEXX HERBICIDE

SDS Number: 102000014305 SDS Version 1.2

US Federal Regulations

TSCA list

Cyprosulfamide 221667-31-8 Glycerine 56-81-5

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

Cyprosulfamide 221667-31-8

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the State of California to cause cancer.

Isoxaflutole 141112-29-0

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

harm.

US State Right-To-Know Ingredients

Glycerine 56-81-5 MN

Canadian Regulations

Canadian Domestic Substance List

Glycerine 56-81-5

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

Glycerine 56-81-5

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

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

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

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

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

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SDS Number: 102000014305 SDS Version 1.2

Safety Data Sheet CONVERGE® FLEXX HERBICIDE

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

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