

CELSIUS® XTRA

Version 2.0 / USA 102000037938

1/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

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

Product identifier	
Trade name	CELSIUS® XTRA
Product code (UVP)	86714523
SDS Number	102000037938

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 Environmental Science A division of Bayer CropScience LP 5000 Centregreen Way, Suite 400 Cary, NC 27513 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	1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200 Acute toxicity(Inhalation): Category 4 Eye irritation: Category 2B

Labelling in accordance with regulation HCS 29CFR §1910.1200



Signal word: Warning

Hazard statements Harmful if inhaled. Causes eye irritation.



CELSIUS® XTRA

Version 2.0 / USA 102000037938

2/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

Precautionary statements

Avoid breathing mist/ vapours/ spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. 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.

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
	Halosulfuron-Methyl Iodosulfuron-methyl-sodium Thiencarbazone-methyl	100784-20-1	10.0
	lodosulfuron-methyl-sodium	144550-36-7	0.93
	Thiencarbazone-methyl	317815-83-1	4.29
I	Lignosulfonic acid, sodium salt, sulfomethylated	68512-34-5	20.0

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.	
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	To date no symptoms are known.	



CELSIUS® XTRA

Version 2.0 / USA 102000037938

3/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

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	Water spray, Carbon dioxide (CO2), Foam, Dry chemical	
Unsuitable	High volume water jet	
Special hazards arising from the substance or mixture	Dangerous gases are evolved in the event of a fire.	
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.	
Further information	Fight fire from upwind position. Keep out of smoke. Cool closed containers exposed to fire with water spray. Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.	
Flash point	No data available	
Auto-ignition temperature	No data available	
Lower explosion limit	No data available	
Upper explosion limit	No data available	
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.		
Methods and materials for containment and cleaning up			
Methods for cleaning up	Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container 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.		



CELSIUS® XTRA

Version 2.0 / USA 102000037938

4/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

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.		
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.		

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
lodosulfuron-methyl-sodium	144550-36-7	1 mg/m3 (TWA)		OES BCS*
Thiencarbazone-methyl	317815-83-1	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 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)

CELSIUS® XTRA

Version 2.0 / USA 102000037938



Print Date: 06/17/2022

Eye protection	Tightly fitting safety goggles	
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 physica Form	small rod		
Colour	brown		
Odour	musty		
Odour Threshold	No data available		
рН	5.5 - 6.5 (1 %) (23 °C) (deionized water)		
Melting point/range	No data available		
Boiling Point	No data available		
Flash point	No data available		
Flammability	No data available		
Auto-ignition temperature	No data available		
Thermal decomposition	No data available		
Minimum ignition energy	No data available		
Self-accelarating decomposition temperature (SADT)	No data available		
Upper explosion limit	No data available		
Lower explosion limit	No data available		
Vapour pressure	No data available		
Evaporation rate	No data available		
Relative vapour density	No data available		
Relative density	No data available		
Density	No data available		
Bulk density	0.4 - 0.6 g/ml (loose)		
Water solubility	No data available		
Partition coefficient: n- octanol/water	Halosulfuron-methyl: log Pow: -0.02(pH 7)		



CELSIUS® XTRA

Version 2.0 / USA 102000037938

6/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

lodosulfuron-methyl-sodium: log Pow: -0.7 Thiencarbazone-methyl: log Pow: -0.13
No data available
No data available
No oxidizing properties

Explosivity Not explosive

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Extremes of temperature and direct sunlight.
Conditions to avoid Incompatible materials	Extremes of temperature and direct sunlight. No incompatible materials known.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Eye contact, Skin contact, Ingestion, Inhalation
Immediate Effects Eye	Causes eye irritation.
Skin	May cause slight irritation.
Information on toxicological effects	
Acute oral toxicity	LD50 (female Rat) > 2,000 mg/kg
Acute inhalation toxicity	LC50 (male/female combined Rat) > 2.17 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. highest concentration tested
Acute dermal toxicity	
	Dermal toxicity was assessed based on the result of the oral toxicity study. Dermal toxicity study has been waived by competent regulatory authority.
Skin corrosion/irritation	Slight irritant effect - does not require labelling. (Rabbit)



Version 2.0 / USA 102000037938



7/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

Serious eye damage/eye irritation	Mild eye irritation. (Rabbit)
Respiratory or skin	Skin: Non-sensitizing. (Mouse)
sensitisation	OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment STOT Specific target organ toxicity - single exposure

lodosulfuron-methyl-sodium: Based on available data, the classification criteria are not met. Thiencarbazone-methyl: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity - repeated exposure

Halosulfuron-methyl did not cause specific target organ toxicity in experimental animal studies. Iodosulfuron-methyl-sodium did not cause specific target organ toxicity in experimental animal studies. Thiencarbazone-methyl did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Halosulfuron-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Iodosulfuron-methyl-sodium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Thiencarbazone-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Halosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice. Iodosulfuron-methyl-sodium was not carcinogenic in lifetime feeding studies in rats and mice. Thiencarbazone-methyl was not carcinogenic in a lifetime feeding study in rats. Thiencarbazone-methyl caused at high dose levels an increased incidence of tumours in mice in the following organ(s): urinary bladder. The tumours seen with Thiencarbazone-methyl were caused through the chronic irritation due to the presence of bladder stones.

ACGIH

None.

NTP

None.

IARC

None.

OSHA

None.

Assessment toxicity to reproduction

Halosulfuron-methyl did not cause reproductive toxicity in a two-generation study in rats. Iodosulfuron-methyl-sodium did not cause reproductive toxicity in a two-generation study in rats. Thiencarbazone-methyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Halosulfuron-methyl caused developmental toxicity only at dose levels toxic to the dams. Halosulfuronmethyl caused an increased incidence of non-specific malformations. Iodosulfuron-methyl-sodium did not cause developmental toxicity in rats and rabbits.

Thiencarbazone-methyl did not cause developmental toxicity in rats and rabbits.



CELSIUS® XTRA

Version 2.0 / USA 102000037938

8/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

Aspiration hazard

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

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 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient iodosulfuron- methyl-sodium.
	LC50 (Oncorhynchus mykiss (rainbow trout)) > 104 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient thiencarbazone- methyl.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) > 100 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient iodosulfuron- methyl-sodium.
	EC50 (Daphnia magna (Water flea)) > 98.6 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient thiencarbazone- methyl.
Toxicity to aquatic plants	IC50 (Raphidocelis subcapitata (freshwater green alga)) 0.152 mg/l Growth rate; Exposure time: 96 h The value mentioned relates to the active ingredient iodosulfuron- methyl-sodium.
	EC50 (Lemna gibba (gibbous duckweed)) 0.00081 mg/l Exposure time: 14 d The value mentioned relates to the active ingredient iodosulfuron- methyl-sodium.
	NOEC (Lemna gibba (gibbous duckweed)) 0.0004 mg/l Exposure time: 14 d The value mentioned relates to the active ingredient iodosulfuron- methyl-sodium.
	IC50 (Raphidocelis subcapitata (freshwater green alga)) 1.017 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient thiencarbazone- methyl.

CELSIUS® XTRA Version 2.0 / USA

102000037938



9/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

	IC50 (Lemna gibba (gibbous duckweed)) 0.00131 mg/l Growth rate; Exposure time: 7 d The value mentioned relates to the active ingredient thiencarbazone- methyl.
Toxicity to bacteria	EC50 (Pseudomonas putida) > 1,000 mg/l Exposure time: 3 h The value mentioned relates to the active ingredient iodosulfuron- methyl-sodium.
Biodegradability	Halosulfuron-methyl: Not rapidly biodegradable Iodosulfuron-methyl-sodium: Not rapidly biodegradable Thiencarbazone-methyl: Not rapidly biodegradable
Кос	Halosulfuron-methyl: Koc: 113 Iodosulfuron-methyl-sodium: Koc: 45 Thiencarbazone-methyl: Koc: 100
Bioaccumulation	Halosulfuron-methyl: Does not bioaccumulate. Iodosulfuron-methyl-sodium: Does not bioaccumulate. Thiencarbazone-methyl: Does not bioaccumulate.
Mobility in soil	Halosulfuron-methyl: Moderately mobile in soils Iodosulfuron-methyl-sodium: Mobile in soils Thiencarbazone-methyl: Moderately mobile in soils
Results of PBT and vPvB ass	sessment
PBT and vPvB assessment	Halosulfuron-methyl: 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). lodosulfuron-methyl-sodium: 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). Thiencarbazone-methyl: 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. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods





Version 2.0 / USA 102000037938

10/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

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 Class Packaging group Marine pollutant Proper shipping name	3077 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL-SODIUM, THIENCARBAZONE- METHYL MIXTURE)
IATA UN number Class Packaging group Environm. Hazardous Mark Proper shipping name	3077 9 III YES ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (IODOSULFURON-METHYL-SODIUM, THIENCARBAZONE- METHYL MIXTURE)
This transportation information is no	t intended to convey all apositic regulatory information relating to t

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



CELSIUS® XTRA

Version 2.0 / USA 102000037938

11/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

US Federal Regulations

TSCA list Kaolin 1332-58-7 Lignosulfonic acid, sodium salt, 68512-34-5 sulfomethylated Citric acid 77-92-9 Polyvinylpyrrolidone 9003-39-8 Sodium butyInaphthalenesulphonate 25638-17-9 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. Crystalline quartz (respirable) 14808-60-7

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

US State Right-To-Know Ingredients

Kaolin	1332-58-7	MN, RI
Synthetic amorphous silica	112926-00-8	CA, CT, MN
Polyvinylpyrrolidone	9003-39-8	CA

Environmental CERCLA None. Clean Water Section 307(a)(1) None. Safe Drinking Water Act Maximum Contaminant Levels None.

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:

CELSIUS® XTRA

Version 2.0 / USA 102000037938

12/12 Revision Date: 05/20/2021 Print Date: 06/17/2022

Signal word:

Caution!

Hazard statements:

Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

	shyme
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
ΙΑΤΑ	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
NFPA 704 (National F	ire Protection Association):
Health - 1	Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)Health - 1Flammability - 1Physical Hazard - 0PPE -

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 15: Regulatory information. Reviewed and updated for general editorial purposes.

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