

SAFETY DATA SHEET



CIRRAY™ HERBICIDE

Version 2.0 / CDN
102000058195

1/14
Revision Date: 11/18/2021
Print Date: 11/19/2021

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

Product identifier

Trade name CIRRAY™ HERBICIDE
Product code (UVP) 87306690
SDS Number 102000058195
PCP Registration No. 34306

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

Aspiration hazard: Category 1
Skin sensitisation, Reproductive toxicity: Category 1B
Skin irritation, Carcinogenicity: Category 2
Eye irritation: Category 2B
Acute toxicity(Inhalation): Category 4
Specific target organ toxicity - repeated exposure: Category 2
Flammable liquids: Category 4

Labelling in accordance with Part 3 of the Hazardous Products Regulations



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Signal word: Danger

Hazard statements

May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
May damage fertility or the unborn child.
Causes skin and eye irritation.
Suspected of causing cancer.
Harmful if inhaled.
May cause damage to organs (Kidney, Urinary system, Liver) through prolonged or repeated exposure.
Combustible liquid.

Precautionary statements

Do not breathe gas/ mist/ vapours/ spray.
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.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Do not eat, drink or smoke when using this product.
Keep away from heat/sparks/open flames/hot surfaces. No smoking.
IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
Do NOT induce vomiting.
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).
Take off contaminated clothing and wash it before reuse.
IF exposed or concerned: Get medical advice/ attention.
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 INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician.
Get medical advice/ attention if you feel unwell.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Keep cool.
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

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Hazardous Component Name	CAS-No.	Concentration % by weight
Pinoxaden	243973-20-8	4.99
Fenoxaprop-P-ethyl	71283-80-2	4.99
Cloquintocet-mexyl	99607-70-2	>=1 – <5
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	>=10 – <30
Naphthalene	91-20-3	>=0.1 – <1.0
Tetrahydrofurfuryl alcohol	97-99-4	>=10 – <30
Calcium dodecylbenzene sulphonate	26264-06-2	>=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.
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 Aspiration may cause pulmonary oedema and pneumonitis.

Indication of any immediate medical attention and special treatment needed

Risks Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

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

Unsuitable High volume water jet

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

|| Vapours are heavier than air and may spread along floors.

Advice for firefighters

Special protective equipment for firefighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Evacuate personnel to safe areas. Avoid contact with spilled product or contaminated surfaces. Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.

|| **Flash point** 84 °C

Auto-ignition temperature 295 °C / 563 °F

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 Remove all sources of ignition. Avoid contact with spilled product or contaminated surfaces. Keep unauthorized people away.

Methods and materials for containment and cleaning up

Methods for cleaning up Dike area to prevent runoff. 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.

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.

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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 Keep away from heat and sources of ignition.

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. Keep away from heat and sources of ignition.

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
Fenoxaprop-P-ethyl	71283-80-2	2.6 mg/m ³ (TWA)		OES BCS*
Solvent Naphtha (petroleum), heavy aromatic (Non-aerosol.)	64742-94-5	200 mg/m ³ (TWA)	11 2010	CAD ON OEL
Solvent Naphtha (petroleum), heavy aromatic (Vapor.)	64742-94-5	200 mg/m ³ (TWA)	07 2009	CAD AB OEL
Solvent Naphtha (petroleum), heavy aromatic (Vapor.)	64742-94-5	250 mg/m ³ (15 MIN ACL)	05 2009	CAD SK OEL

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Solvent Naphtha (petroleum), heavy aromatic (Non-aerosol.)	64742-94-5	200 mg/m3 (TWA)	05 2013	CAD BC OEL
Solvent Naphtha (petroleum), heavy aromatic (Non-aerosol.)	64742-94-5	200 mg/m3 (TWA)	03 2014	CAD MB OEL
Solvent Naphtha (petroleum), heavy aromatic (Vapor.)	64742-94-5	200 mg/m3 (8 HR ACL)	05 2009	CAD SK OEL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	525 mg/m3 (TWA)	11 2010	CAD ON OEL
Naphthalene	91-20-3	52 mg/m3/10 ppm (TWA)	07 2009	CAD AB OEL
Naphthalene	91-20-3	79 mg/m3/15 ppm (STEL)	07 2009	CAD AB OEL
Naphthalene	91-20-3	10 ppm (TWA)	09 2011	CAD BC OEL
Naphthalene	91-20-3	15 ppm (STEL)	09 2011	CAD BC OEL
Naphthalene	91-20-3	10 ppm (TWA)	03 2011	CAD MB OEL
Naphthalene	91-20-3	10 ppm (TWA)	11 2010	CAD ON OEL
Naphthalene	91-20-3	15 ppm (STEL)	11 2010	CAD ON OEL
Naphthalene	91-20-3	10 ppm (8 HR ACL)	05 2009	CAD SK OEL
Naphthalene	91-20-3	15 ppm (15 MIN ACL)	05 2009	CAD SK OEL
Naphthalene	91-20-3	79 mg/m3/15 ppm (STEL)	11 2011	OEL (QUE)
Naphthalene	91-20-3	52 mg/m3/10 ppm (TWA)	11 2011	OEL (QUE)
Naphthalene	91-20-3	10 ppm (TLV)		OES BCS*

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

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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	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
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 physical and chemical properties

Form	liquid
Colour	gold
Odour	No data available
Odour Threshold	No data available
pH	3.0 - 7.1 (1 %)
Melting point/range	No data available
Boiling Point	No data available
Flash point	84 °C
Flammability	No data available
Auto-ignition temperature	295 °C
Thermal decomposition	No data available
Minimum ignition energy	No data available
Self-accelerating decomposition temperature (SADT)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available

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Evaporation rate	No data available
Relative vapour density	No data available
Relative density	No data available
Density	0.9974 g/cm ³ (20 °C)
Water solubility	No data available
Partition coefficient: n-octanol/water	Fenoxaprop-P-ethyl: log Pow: 4.58 (30 °C) log Pow: 5.3
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	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	Heat, flames and sparks. 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	Ingestion, Inhalation, Eye contact, Skin contact
Immediate Effects	
Eye	Causes eye irritation.
Skin	Causes skin irritation. May cause sensitisation by skin contact.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled.
Information on toxicological effects	

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Acute oral toxicity	LD50 (female Rat) 5,000 mg/kg
Acute inhalation toxicity	LC50 (female Rat) > 2.48 mg/l Exposure time: 4 h dust/mist
Acute dermal toxicity	LD50 (Rat) > 5,000 mg/kg
Skin corrosion/irritation	Irritating to skin. (Rabbit)
Serious eye damage/eye irritation	Irritating to eyes. (Rabbit)
Respiratory or skin sensitisation	Skin: Sensitising (Guinea pig)

Assessment STOT Specific target organ toxicity – single exposure

Fenoxaprop-P-ethyl: Based on available data, the classification criteria are not met.

Assessment STOT Specific target organ toxicity – repeated exposure

Fenoxaprop-P-ethyl did not cause specific target organ toxicity in rats. Fenoxaprop-P-ethyl caused specific target organ toxicity in experimental animal studies in mice in the following organ(s): Kidney.

Assessment mutagenicity

Fenoxaprop-P-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Fenoxaprop-P-ethyl demonstrated no carcinogenic potential in a lifetime feeding study in rats. Fenoxaprop-P-ethyl caused an increased incidence of liver tumours in mice at high doses. Fenoxaprop-P-ethyl causes tumours through peroxisome proliferation. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

ACGIH

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

NTP

Naphthalene	91-20-3
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IARC

Naphthalene	91-20-3	Overall evaluation: 2B
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OSHA

None.

Assessment toxicity to reproduction

Fenoxaprop-P-ethyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Fenoxaprop-P-ethyl did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

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May be fatal if swallowed and enters airways.

Further information

The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)) 0.39 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

LC50 (Oncorhynchus mykiss (rainbow trout)) 10.3 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pinoxaden.

LC50 (Oncorhynchus mykiss (rainbow trout)) > 0.97 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient cloquintocet-mexyl.

LC50 (Gobiocypris rarus (rare gudgeon)) 0.102 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient cloquintocet-mexyl.

Chronic toxicity to fish

Oncorhynchus mykiss (rainbow trout)
NOEC: 6.6 mg/l
Exposure time: 28 d
The value mentioned relates to the active ingredient pinoxaden.

Oncorhynchus mykiss (rainbow trout)
NOEC: 0.1 mg/l
Exposure time: 21 d
The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

Toxicity to aquatic invertebrates

EC50 (Daphnia magna (Water flea)) > 1.06 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

EC50 (Daphnia magna (Water flea)) 52 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient pinoxaden.

EC50 (Daphnia magna (Water flea)) > 0.82 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient cloquintocet-mexyl.

Chronic toxicity to aquatic invertebrates

NOEC (Daphnia magna (Water flea)): 0.22 mg/l
Exposure time: 21 d
The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

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NOEC (Daphnia (water flea)): > 0.437 mg/l
Exposure time: 21 d
The value mentioned relates to the active ingredient cloquintocet-mexyl.

Toxicity to aquatic plants

EbC50 (Raphidocelis subcapitata (freshwater green alga)) 0.54 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

ErC50 (Raphidocelis subcapitata (freshwater green alga)) 41 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient pinoxaden.

ErC50 (Skeletonema costatum) 1.72 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient pinoxaden.

NOEC (Skeletonema costatum) 0.94 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient pinoxaden.

NOEC (Lemna gibba (gibbous duckweed)) 0.73 mg/l
Exposure time: 7 d
The value mentioned relates to the active ingredient pinoxaden.

ErC50 (Desmodesmus subspicatus (green algae)) > 2.2 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient cloquintocet-mexyl.

NOEC (Desmodesmus subspicatus (green algae)) 0.12 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient cloquintocet-mexyl.

Toxicity to bacteria

EC50 (activated sludge) > 1.0 mg/l
Exposure time: 3 h
The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.
EC50 (activated sludge) > 1,000 mg/l
Exposure time: 3 h
The value mentioned relates to the active ingredient cloquintocet-mexyl.

Biodegradability

Fenoxaprop-P-ethyl:
Not rapidly biodegradable

Koc

Fenoxaprop-P-ethyl: Koc: 11354
Koc: 38070

Bioaccumulation

Fenoxaprop-P-ethyl: Bioconcentration factor (BCF) 338
Does not bioaccumulate.
Bioconcentration factor (BCF) 122 - 621
moderately

Mobility in soil

Fenoxaprop-P-ethyl: Immobile in soil
Immobile in soil

Results of PBT and vPvB assessment

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PBT and vPvB assessment	Fenoxaprop-P-ethyl: 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	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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. 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. (FENOXAPROP-P-ETHYL, SOLVENT NAPHTHA)

49CFR

NA-Number	1993
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (FENOXAPROP-P-ETHYL, SOLVENT NAPHTHA, NAPHTHALENE)
RQ	Reportable Quantity is reached with 10,001 lb of product.

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.
(FENOXAPROP-P-ETHYL, SOLVENT NAPHTHA
SOLUTION)

IATA

UN number **3082**
Class 9
Packaging group III
Environm. Hazardous Mark YES
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(FENOXAPROP-P-ETHYL, SOLVENT NAPHTHA 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.

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

PCP Registration No. 34306

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:

Signal word: Danger!
Hazard statements: Eye and skin irritant.
Potential skin sensitizer.

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

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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

NFPA 704 (National Fire Protection Association):

Health - 3 Flammability - 2 Instability - 0 Others - none

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

Health - 3 Flammability - 2 Physical Hazard - 0 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 1: Chemical Product and Company Information. Section 2: Hazards Identification. Section 9: Physical and Chemical Properties. Section 11: Toxicological Information. Section 12. Ecological information. Section 14: Transport Information. Section 15: Regulatory information. Reviewed and updated for general editorial purposes.

Revision Date: 11/18/2021

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

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