

SAFETY DATA SHEET



ACCLAIM® EXTRA HERBICIDE

Version 6.0 / USA
102000005372

1/13
Revision Date: 05/30/2024
Print Date: 06/01/2024

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

Product identifier

Trade name ACCLAIM® EXTRA HERBICIDE
Product code (UVP) 05954002
SDS Number 102000005372
EPA Registration No. 432-950

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
800 North Lindbergh Blvd.
St. Louis, MO 63167
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 1-866-992-2937

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

Aspiration hazard: Category 1
Carcinogenicity: Category 2
Specific target organ toxicity - repeated exposure: Category 2

Labelling in accordance with regulation HCS 29CFR §1910.1200



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Signal word: Danger

Hazard statements

- May be fatal if swallowed and enters airways.
- Suspected of causing cancer.
- May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- IF SWALLOWED: Immediately call a POISON CENTER/doctor/ physician.
- Do NOT induce vomiting.
- IF exposed or concerned: Get medical advice/ attention.
- Get medical advice/ attention if you feel unwell.
- Store locked up.
- 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 |
|---|------------|---------------------------|
| Fenoxaprop-P-ethyl | 71283-80-2 | 6.59 |
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | 34.80 |
| Alcohols, C11-14-iso-, C13-rich, ethoxylated | 78330-21-9 | 14.00 |
| Naphthalene | 91-20-3 | 5.66 |

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. |

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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 If large amounts are ingested, the following symptoms may occur:
Headache, Nausea, Dizziness, Somnolence
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Aspiration may cause pulmonary oedema and pneumonitis.
Inhalation may provoke the following symptoms:
Cough, Shortness of breath, Cyanosis, Fever
Symptoms and hazards refer to the solvent.

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.

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 In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NO_x)

Advice for firefighters

Special protective equipment for firefighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. In the event of fire and/or explosion do not breathe fumes.

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.

Specific hazards from the substance or mixture which can increase the fire

Flash point 100 °C / 212 °F

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Isolate hazard area. 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. 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. This substance contains 10% or more of an oil as defined in 49 CFR 130.5 when it is shipped in a package of 3,500 gallons or more.

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.

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

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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 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 |
|---|------------|----------------------------------|---------|-----------|
| Fenoxaprop-P-ethyl | 71283-80-2 | 2.6 mg/m3 (TWA) | | OES BCS* |
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | 1,600 mg/m3/400 ppm (TWA PEL) | 09 2006 | US CA OEL |
| Hydrocarbons, C10, aromatics, <1% naphthalene (Non-aerosol.) | 64742-94-5 | 200 mg/m3 (TWA) | 03 2014 | ACGIH |
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | 100 mg/m3 (REL) | 2010 | NIOSH |
| Hydrocarbons, C10, aromatics, <1% naphthalene (Non-aerosol.) | 64742-94-5 | 200 mg/m3 (TWA) | 01 2021 | ACGIH |
| 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* |

*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, | | Sampling | | ACGIH BEI |

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| | | | | | | |
|--|--|---|--|---------------------|--|--|
| | | with hydrolysis + 2-Naphthol, with hydrolysis | | time: End of shift. | | |
|--|--|---|--|---------------------|--|--|

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 | white to beige |
| Odour | characteristic |
| Odour Threshold | No data available |
| pH | 7.5 - 8.1 (10 %) (23 °C) (deionized water) |
| Melting point/range | No data available |
| Boiling Point | No data available |
| Flash point | 100 °C / 212 °F |
| Flammability | No data available |
| Auto-ignition temperature | No data available |
| Thermal decomposition | No data available |
| Minimum ignition energy | Not applicable |
| Self-accelarating | No data available |

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decomposition temperature (SADT)

| | |
|---|---|
| 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 | ca. 1.03 g/cm ³ (20 °C) |
| Water solubility | dispersible |
| Partition coefficient: n-octanol/water | Fenoxaprop-P-ethyl: log Pow: 4.58 (30 °C) |
| Viscosity, dynamic | 700 - 1,200 mPa.s (20 °C) Velocity gradient 20 /s 400 - 800 mPa.s (20 °C) Velocity gradient 100 /s |
| Viscosity, kinematic | No data available |
| Oxidizing properties | No data available |
| Explosivity | Not applicable |
| 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. |

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SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|--------------------------|---|
| Exposure routes | Eye contact, Ingestion, Skin contact, Inhalation |
| Immediate Effects | |
| Eye | May cause temporary eye irritation. |
| Skin | Not expected to produce significant adverse effects when recommended use instructions are followed. |
| 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 (male/female combined Rat) > 5,000 mg/kg |
| Acute inhalation toxicity | LC50 (male/female combined Rat) > 10.7 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. (actual) |
| Acute dermal toxicity | LD50 (male/female combined Rat) > 4,000 mg/kg |
| Skin corrosion/irritation | Slight irritant effect - does not require labelling. (Rabbit) |
| Serious eye damage/eye irritation | Slight irritant effect - does not require labelling. (Rabbit) |
| Respiratory or skin sensitisation | Skin: Non-sensitizing. (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

| | | |
|---|------------|----------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | Group A3 |
| Naphthalene | 91-20-3 | Group A3 |

NTP

| | |
|-------------|---------|
| Naphthalene | 91-20-3 |
|-------------|---------|

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IARC

| | | |
|---|------------|-----------------------------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | Overall evaluation: 3 OCGEN |
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | Overall evaluation: 3 OCGEN |
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | Overall evaluation: 3 OCGEN |
| Naphthalene | 91-20-3 | Overall evaluation: 2B |

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

May be fatal if swallowed and enters airways.

Further information

Acute toxicity studies have been bridged from a similar formulation(s).
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. |
| Toxicity to aquatic invertebrates | EC50 (Daphnia magna (Water flea)) > 1.058 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl. No acute toxicity was observed at its limit of water solubility. |
| Toxicity to aquatic plants | EC50 (Raphidocelis subcapitata (freshwater green alga)) 0.54 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl. |
| Biodegradability | Fenoxaprop-P-ethyl: Not rapidly biodegradable |
| Koc | Fenoxaprop-P-ethyl: Koc: 11354 |
| Bioaccumulation | Fenoxaprop-P-ethyl: Bioconcentration factor (BCF) 338 Does not bioaccumulate. |
| Mobility in soil | Fenoxaprop-P-ethyl: Immobile in soil |
| Results of PBT and vPvB assessment | |
| 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). |

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| | |
|--|--|
| Additional ecological information | No other effects to be mentioned. |
| 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. Do not apply when weather conditions favor runoff or drift. |

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. |
| 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

| | |
|----------------------|--|
| UN number | 3082 |
| Class | 9 |
| Packaging group | III |
| Marine pollutant | Marine pollutant |
| Proper shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (FENOXAPROP-P-ETHYL, NAPHTHALENE) |
| RQ | Reportable Quantity is reached with 1,666 lb of product. |

IMDG

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

IATA

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

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Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(FENOXAPROP-P-ETHYL 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 This substance contains 10% or more of an oil as defined in 49 CFR 130.5 when it is shipped in a package of 3,500 gallons or more.

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

EPA Registration No. 432-950

US Federal Regulations

TSCA list

| | |
|---|-------------|
| Water | 7732-18-5 |
| Solvent Naphtha (petroleum), heavy aromatic | 64742-94-5 |
| Tridecyl alcohol ethoxylate | 9043-30-5 |
| 2-Methylnaphthalene | 91-57-6 |
| Glycerine | 56-81-5 |
| Naphthalene | 91-20-3 |
| 1-Methylnaphthalene | 90-12-0 |
| Tristyrylphenol polyethylenglycol phosphoric acid ester | 114535-82-9 |

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

Yes

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.

Naphthalene 91-20-3

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

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US State Right-To-Know Ingredients

| | | |
|---|------------|------------------------|
| Solvent Naphtha (petroleum), heavy aromatic | 64742-94-5 | CT, IL, NJ, RI |
| 2-Methylnaphthalene | 91-57-6 | CA, CT, IL, MN, NJ |
| Glycerine | 56-81-5 | MN, RI |
| Naphthalene | 91-20-3 | CA, CT, IL, MN, NJ, RI |
| 1-Methylnaphthalene | 90-12-0 | CA, CT, IL, MN, NJ |

Environmental

CERCLA

Yes

Solvent Naphtha (petroleum), heavy aromatic 64742-94-5

Yes

2-Methylnaphthalene 91-57-6
Included in the regulation but with no data values. See regulation for further details

Yes

Naphthalene 91-20-3
Listed.

Yes

1-Methylnaphthalene 90-12-0
Included in the regulation but with no data values. See regulation for further details

Clean Water Section 307(a)(1)

Yes

2-Methylnaphthalene 91-57-6

Yes

Naphthalene 91-20-3

Yes

1-Methylnaphthalene 90-12-0

Safe Drinking Water Act Maximum Contaminant Levels

Yes

2-Methylnaphthalene 91-57-6

Yes

Naphthalene 91-20-3

Yes

1-Methylnaphthalene 90-12-0

EPA/FIFRA Information:

This chemical is a pesticide product regulated 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:

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Signal word: Caution!

Hazard statements: Causes moderate eye irritation.
Harmful if swallowed.

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 - 1 Flammability - 1 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Fourth 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,
* = chronic health hazard

Reason for Revision: The following sections have been revised: Section 2: Hazards Identification. 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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