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

Product identifier
Trade name          PUMA® ADVANCE HERBICIDE
Product code (UVP)  79390394
SDS Number          102000017228
PCP Registration No. 29615

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, Eye irritation: Category 1
Skin irritation, Carcinogenicity: Category 2
Acute toxicity (Inhalation): Category 4

Labelling in accordance with Part 3 of the Hazardous Products Regulations

Signal word: Danger
Hazard statements
May be fatal if swallowed and enters airways.
Causes serious eye damage.
Causes skin irritation.
Suspected of causing cancer.
Harmful if inhaled.

Precautionary statements
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing mist and spray.
Use only outdoors or in a well-ventilated area.
IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
Do NOT induce vomiting.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor/physician.
IF ON SKIN: Wash with plenty of water/soap.
Specific treatment (see supplemental first aid instructions on this label).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.
IF exposed or concerned: Get medical advice/attention.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician 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

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fenoxaprop-P-ethyl</td>
<td>71283-80-2</td>
<td>8.8</td>
</tr>
<tr>
<td>Mefenpyr-diethyl</td>
<td>135590-91-9</td>
<td>4.4</td>
</tr>
<tr>
<td>Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts</td>
<td>90194-26-6</td>
<td>3.2</td>
</tr>
<tr>
<td>2-Methylpropan-1-ol</td>
<td>78-83-1</td>
<td>1.8</td>
</tr>
<tr>
<td>Alcohols, C11-14-iso-, C13-rich, ethoxylated</td>
<td>78330-21-9</td>
<td>11.4</td>
</tr>
<tr>
<td>Solvent Naphtha (petroleum), heavy aromatic</td>
<td>64742-94-5</td>
<td>52.9</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>7.9</td>
</tr>
</tbody>
</table>

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.

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. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable
Water spray, Foam, Carbon dioxide (CO2), Dry chemical

Unsuitable
None known.

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
Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

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.

Flash point
103 °C

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
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
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.

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
Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

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. 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.

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.
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
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<tr>
<td>Fenoxaprop-P-ethyl</td>
<td>71283-80-2</td>
<td>2.6 mg/m3 (TWA)</td>
<td></td>
<td>OES BCS*</td>
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<tr>
<td>Mefenpyr-diethyl</td>
<td>135590-91-9</td>
<td>10 mg/m3 (TWA)</td>
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<td>OES BCS*</td>
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<td>2-Methylpropan-1-ol</td>
<td>78-83-1</td>
<td>152 mg/m3/50 ppm (TWA)</td>
<td>07 2009</td>
<td>CAD AB OEL</td>
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<td>50 ppm (TWA)</td>
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<tr>
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<td>50 ppm (8 HR ACL)</td>
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<td>200 mg/m3 (TWA)</td>
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<td>CAD AB OEL</td>
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<td>Solvent Naphtha (petroleum), heavy</td>
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<tr>
<td>Solvent Naphtha (petroleum), heavy aromatic</td>
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<td>1,590 mg/m³/400 ppm (TWA)</td>
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<td>OEL (QUE)</td>
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<tr>
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<tr>
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<td>10 ppm (TWA)</td>
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<td>Naphthalene</td>
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<td>Naphthalene</td>
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<td>Naphthalene</td>
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<td>79 mg/m³/15 ppm (STEL)</td>
<td>11 2011</td>
<td>OEL (QUE)</td>
</tr>
</tbody>
</table>
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 made of waterproof material such as neoprene, butyl rubber, barrier laminate or nitrile rubber.

Eye protection

Chemical resistant goggles must be worn.

Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks. Coveralls over short-sleeved shirt and short pants.

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

Appearance

beige to brown

Physical State

Liquid

Odor

aromatic

Odour Threshold

No data available

pH

cia. 5.4 at 10 % (23 °C) (deionized water)

Vapor Pressure

No data available

Vapor Density (Air = 1)

No data available

Density

1.03 g/cm³ at 20 °C

Evaporation rate

No data available

Boiling Point

No data available

Melting / Freezing Point

No data available

Water solubility

No data available

Minimum Ignition Energy

Not applicable

Decomposition temperature

Not applicable
Partition coefficient: n-octanol/water
- No data available

Viscosity
- 15.7 mPa.s

Flash point
- 103 °C

Auto-ignition temperature
- No data available

Lower explosion limit
- No data available

Upper explosion limit
- No data available

Explosivity
- Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition
- Not applicable

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.

Incompatible materials
- No data available

Hazardous decomposition products
- No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes
- Eye contact, Skin Absorption, Ingestion, Inhalation

Immediate Effects

Eye
- Corrosive - causes irreversible eye damage.

Skin
- Causes skin irritation. Harmful if absorbed through skin.

Ingestion
- Harmful if swallowed.

Information on toxicological effects

Acute oral toxicity
- LD50 (female Rat) > 2,000 mg/kg

Acute inhalation toxicity
- LC50 (Rat) > 2.1 mg/l
- Exposure time: 4 h
- Determined in the form of liquid aerosol.

Acute dermal toxicity
- LD50 (Rat) > 2,000 mg/kg

Skin irritation
- Moderate skin irritation. (Rabbit)
Eye irritation  Severe eye irritation. (Rabbit)
Sensitisation  Non-sensitizing. (Guinea pig)

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. Mefenpyr-diethyl did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity
Fenoxaprop-P-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Mefenpyr-diethyl 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. Mefenpyr-diethyl was not carcinogenic in lifetime feeding studies in rats and mice.

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

NTP
Naphthalene 91-20-3

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

OSHA
None.

Assessment toxicity to reproduction
Fenoxaprop-P-ethyl did not cause reproductive toxicity in a two-generation study in rats. Mefenpyr-diethyl 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. Mefenpyr-diethyl caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Mefenpyr-diethyl are related to maternal toxicity.

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)) 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
Mefenpyr-diethyl: Not rapidly biodegradable

Koc
Fenoxaprop-P-ethyl: Koc: 11354
Mefenpyr-diethyl: Koc: 625

Bioaccumulation
Fenoxaprop-P-ethyl: Bioconcentration factor (BCF) 338
Does not bioaccumulate.
Mefenpyr-diethyl: Bioconcentration factor (BCF) 232
Does not bioaccumulate.

Mobility in soil
Fenoxaprop-P-ethyl: Immobile in soil
Mefenpyr-diethyl: Slightly mobile in soils

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.
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.
Follow advice on product label and/or leaflet.

Contaminated packaging
Do not re-use empty containers.
Triple rinse containers.
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)

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 1,176 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
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
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.  29615
US Federal Regulations
TSCA list
None.
US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)
None.
SARA Title III - Section 302 - Notification and Information
None.
SARA Title III - Section 313 - Toxic Chemical Release Reporting
Naphthalene 91-20-3 0.1%

US States Regulatory Reporting
CA Prop65
This product contains a chemical known to the State of California to cause cancer.
Naphthalene 91-20-3

US State Right-To-Know Ingredients
2-Methylpropan-1-ol 78-83-1 CA, CT, IL, MN, NJ, RI
Solvent Naphtha (petroleum), heavy aromatic 64742-94-5 CA, CT, MN, NJ, RI
Naphthalene 91-20-3 CA, CT, IL, MN, NJ, RI

Canadian Regulations
Canadian Domestic Substance List
Benzenesulfonic acid, 4-C10-14-alkyl derivs., calcium salts 90194-26-6
2-Methylpropan-1-ol 78-83-1
Alcohols, C11-14-iso-, C13-rich, ethoxylated 78330-21-9
Solvent Naphtha (petroleum), heavy aromatic 64742-94-5
Naphthalene 91-20-3

Environmental
CERCLA
2-Methylpropan-1-ol 78-83-1
Naphthalene 91-20-3

Clean Water Section 307 Priority Pollutants
Naphthalene 91-20-3

Safe Drinking Water Act Maximum Contaminant Levels
Naphthalene 91-20-3

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
SAFETY DATA SHEET

PUMA® ADVANCE HERBICIDE
Version 2.0 / CDN
102000017228

Revision Date: 06/12/2017
Print Date: 10/03/2017

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):

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<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
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<th>Flammability</th>
<th>Physical Hazard</th>
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<td>0</td>
<td>-</td>
</tr>
</tbody>
</table>

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

Reason for Revision: Revised according to the current Canadian WHMIS standard (WHMIS 2015).

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

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