# **Safety Data Sheet**

Preparation Date 09-Oct-2019

# 1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the product

Product Description Justice Herbicide

Other means of identification

Registration number(s)
OTHER INFORMATION

PCPA Reg. No. 33615

Oral LD50 = >5000 mg/kg

Dermal LD50 = >2000 mg/kg Inhalation LC50 = >3.133 mg/L.

Recommended use of the chemical and restrictions on use

Recommended use Herbicide.

Uses advised against Activities contrary to label recommendation

**Details of the Supplier of the Safety Data Sheet** 

**Supplier Address** 

Winfield United Canada, ULC 101-302 Wellman Lane Saskatoon, Saskatchewan

Canada S7T 0J1

Emergency telephone number

Company Phone Number 1-888-975-4769

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887Medical: Rocky Mountain Poison and

Drug Safety (866) 673-6671 (24hrs)

## 2. Hazards Identification

## Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 3
Reproductive Toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

## Label elements

# **EMERGENCY OVERVIEW**

#### DANGER

## **Hazard Statements**

Harmful in contact with skin

Toxic if inhaled

May damage fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure



Appearance clear Physical state Liquid Odor no data available

#### **Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood Wear cold insulating gloves/face shield/eye protection Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention
IF ON SKIN: Wash with plenty of soap and water
Call a POISON CENTER or doctor if you feel unwell
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards Not Otherwise Classified (HNOC) OTHER INFORMATION

- Harmful to aquatic life with long lasting effects
- · May be harmful in contact with skin

# 3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Glufosinate ammonium	Proprietary	13.92

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

## 4. First aid measures

# FIRST AID MEASURES

**General advice** If symptoms persist, call a physician. Show this safety data sheet to the doctor in

attendance.

Eye contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or

doctor for treatment advice.

**Skin contact** Wash off immediately with plenty of water for at least 15 minutes. Call a poison control

center or doctor for treatment advice.

**Inhalation** Move person 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.

**Ingestion** Never give anything by mouth to an unconscious person. Do not induce vomiting without

medical advice. Call a physician or poison control center immediately.

**Protection of First-aiders**Use personal protective equipment.

Most Important Symptoms and Effects, Both Acute and Delayed

**Most Important Symptoms and** 

**Effects** 

no data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician Treat symptomatically.

## 5. Fire-fighting measures

#### Suitable extinguishing media

Use:. Dry chemical. Carbon dioxide (CO2). Water spray. alcohol-resistant foam.

Unsuitable extinguishing media no data available.

## Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. Risk of ignition. Combustible material.

Hazardous combustion products Carbon oxides. Carbon monoxide. Sulfur oxides.

#### Explosion data

## Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal Precautions Provide adequate ventilation. Avoid contact with skin, eyes and inhalation of vapors. Use

personal protective equipment. Remove all sources of ignition. Take precautionary

measures against static discharges. Wash thoroughly after handling.

Environmental Precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for Clean-Up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled

containers.

# 7. Handling and Storage

#### Precautions for safe handling

**Handling** Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact

with skin and eyes. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Do not eat, drink or smoke when using this product.

## Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Protect

from light. Keep in properly labelled containers. Keep away from heat and sources of ignition. Keep out of the reach of children. Do not store near combustible materials. Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

**incompatible materials** Strong acids. Strong oxidizing agents. Bases.

# 8. Exposure Controls/Personal Protection

**Exposure guidelines** 

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust

ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for

design of exhaust systems.

Personal protective equipment

Eye/Face Protection Use eye protection to avoid eye contact. Where there is potential for eye contact have eye

flushing equipment available. Safety glasses with side-shields.

**Skin protection** Wear protective gloves/clothing. Socks and footwear.

Respiratory protection Where airborne exposure is likely, use NIOSH approved respiratory protection equipment

appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus or positive pressure airline with auxilliary self-contained air supply. Respiratory protection programs must comply with 29 CFR 1910.134.

# General hygiene considerations

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Wash hands and face before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

## 9. Physical and Chemical Properties

## Information on basic physical and chemical properties

Physical state Liquid

Appearance clear Odor no data available

**color** Blue to blueish-green

Property VALUES Remarks/ • Method

oH 7

Melting point/freezing pointno data available46 °FBoiling Point/RangeNo information available

Flash Point 156 F / 69 C

Evaporation Rate
No information available
Plammability (solid, gas)
No information available

Flammability limit in air

Upper Flammability LimitNo information availableLower Flammability LimitNo information available

#### **Justice Herbicide**

vapor pressureNo information availableVapor DensityNo information available

Specific gravity 1.08 @20 C

Water solubility

Solubility in Other Solvents

Partition coefficient: n-octanol/water No information available
Autoignition temperature

No information available
no data available

Decomposition temperature
Viscosity, kinematic
Dynamic viscosity
Explosive properties
Oxidizing properties
No information available
No information available
No information available
No information available

## **OTHER INFORMATION**

Softening point
molecular weight
VOC Content
Liquid Density

No information available
No information available
No information available
No information available

# 10. Stability and Reactivity

## Reactivity

no data available

#### **Chemical stability**

Stable under normal conditions. Hazardous polymerisation does not occur.

## Possibility of hazardous reactions

None under normal processing.

#### **Conditions to avoid**

Keep away from open flames, hot surfaces and sources of ignition.

#### incompatible materials

Strong acids. Strong oxidizing agents. Bases.

# **Hazardous decomposition products**

Carbon oxides. Carbon monoxide. Oxides of sulfur.

# 11. Toxicological Information

#### Information on Likely Routes of Exposure

Product information Justice:

Acute oral LD50 (rat) - >5,000 mg/kg

Acute dermal LD50(rat/rabbit) = >2,000 mg/kg

Acute inhalation LC50 (rat) 4 hr = >3.133 mg/L [>12.5 mg/L 1 hr]

Primary eye irritation (rabbit) = Not an irritant Primary dermal irritation (rabbit) = Not an irritant

Dermal sensitization = Not a sensitizer

**Inhalation** May cause irritation of respiratory tract. May be harmful by inhalation.

**Eye contact** May cause temporary eye irritation.

**Skin contact** May cause irritation.

Ingestion HARMFUL IF SWALLOWED.

#### Information on Toxicological Effects

**Symptoms** No information available.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

**Mutagenic effects** no data available.

Carcinogenicity The information below indicates whether any agency has listed any ingredient as a

carcinogen.

Reproductive effects
STOT - Single Exposure
STOT - Repeated Exposure
Not Available.
no data available.
no data available.

**Chronic toxicity** Avoid repeated exposure.

Target organ effects Respiratory System, EYES, skin, Central Nervous System (CNS).

**Aspiration hazard** No information available.

## Numerical Measures of Toxicity - Product information

**LD50 Oral** > 5000 mg/kg (rat) **LD50 Dermal** > 2000 mg/kg (rat)

**LC50** Inhalation LC50/inhalation/4h/rat = > 3.133 mg/l (4-hr)

# 12. Ecological Information

#### ecotoxicity

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 clean equipment or dispose of equipment washwater in a manner that will contaminate water resources or areable land. Do not apply when weather conditions favor drift from treated areas.

#### Persistence/Degradability

no data available.

#### **Bioaccumulation/ Accumulation**

Bioaccumulative potential.

#### **Other Adverse Effects**

no data available

# 13. Disposal Considerations

#### **Waste Treatment Methods**

Waste Disposal Method Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate

is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packaging Refer to product label.

# 14. Transport Information

**DOT**When shipped domestically by highway in non-bulk containers this product can be shipped

as not regulated.

When shipped domestically (US) in bulk containers (>119 gallon capacity) this product is classified as a Combustible liquid as per 49 CFR 173.150(f). As such the documentation will be noted as Combustible Liquid, n.o.s. (Propylene glycol monomethyl ether), Comb Liq,

NA1993, PG III.

This regulation is limited to the U.S. only - international regulations do not recognize

Combustible - when shipped internationally this product is Not regulated.

<u>TDG</u>

**NOT REGULATED** 

<u>IATA</u>

**NOT REGULATED** 

<u>IMDG</u>

**USINV** 

**DSL/NDSL** 

**NOT REGULATED** 

# 15. Regulatory Information

This chemical/product is a pesticide product registered by the PMRA and is subject to specific label requirements under these regulations. The requirements may differ classification and hazard information required for safety data sheets and for labels of non-pesticide products. The following is information as required on the registered product label.

signal word WARNING

Keep out of Reach of Children. Skin and Eye Irritant. Toxic to aquatic organisms. and non-target terrestrial plants.

#### **International Inventories**

EINECS/ Present
ELINCS
ENCS Not Present
China Not Present
KECL Not Present
PICCS Not Present
AICS Not Present
TSCA Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

Present

Not present

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### Federal Regulations

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

#### **Justice Herbicide**

or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

**CERCLA** 

Not applicable

CERCLA

**SARA Product RQ** 

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09-Oct-2019

RCRA

**Pesticide Information** 

**State Regulations** 

State Right-to-Know

International regulations U.S. EPA Label information

EPA Pesticide registration number NA

# 16. Other Information

NFPA **HEALTH** 1 flammability 1 Instability 0 Physical hazard -

**Preparation Date** Revision date **Revision Summary** 

Update logo

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**End of SDS**