Image Herbicides Crabgrass, Nutsedge & Weed Killer For Lawns Concentrate

Safety Data Sheet

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SECTION 1: Identification

1.1. Identification

Product form : Mixture

Name : Image Herbicides Crabgrass, Nutsedge & Weed Killer For Lawns Concentrate

Synonyms : 100551404, UPC #: 8-13576-00691-4, EPA Reg. No.: 279-3463-90098

1.2. Recommended use and restrictions on use

Recommended use : Selective herbicide.

Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing.

1.3. Supplier

Central Garden & Pet, Garden Division
1000 Parkwood Circle, Suite 700
Atlanta, GA 30339 - United States

gardendivision@central.com

www.imageforweeds.com

1.4. Emergency telephone number

Emergency number : 1-800-265-0761
1-800-424-9300 - CHEMTREC
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute toxicity (inhalation) Category 4	Harmful if inhaled
Serious eye damage/eye irritation Category 2A	Causes serious eye irritation
Specific target organ toxicity (repeated exposure) Category 2	May cause damage to organs through prolonged or repeated exposure

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

GHS07 GHS08

Signal word (GHS US) : Warning

Hazard statements (GHS US) : Causes serious eye irritation
Harmful if inhaled
May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands, forearms and face thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
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.
Get medical advice/attention if you feel unwell.
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : This product is toxic to marine/estuarine invertebrates. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Sulfentrazone	(CAS-No.) 122836-35-5	1.6
Quinclorac	(CAS-No.) 84087-01-4	5
Toluene	(CAS-No.) 108-88-3	0.105
2-aminoethanol	(CAS-No.) 141-43-5	1 – 5
Polyethylene glycol mono(octylphenyl) ether	(CAS-No.) 9036-19-5	1.94
Non-hazardous and/or does not meet criteria for classification	(CAS-No.) N/A	Balance

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : 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 and attention.

First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after eye contact : Causes serious eye irritation.

Chronic symptoms : May cause damage to organ(s) through prolonged or repeated exposure - liver, kidney, hematopoietic system.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Do not allow fire fighting water to escape into waterways or sewers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.

Emergency procedures : Do not scatter spilled material with high pressure water streams. Do NOT wash away into sewer. Avoid release to the environment. Stay upwind. Stop release. Ventilate area. Wear appropriate personal protective equipment, avoid direct contact.

6.2. Environmental precautions

Do NOT wash away into sewer. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Wear appropriate personal protective equipment, avoid direct contact.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep from freezing. Keep only in original container. Keep container tightly closed. Do not store near heat or open flame.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Toluene (108-88-3)		
ACGIH	ACGIH OEL TWA	20 ppm
ACGIH	Remark (ACGIH)	Visual impair; female repro;
OSHA	OSHA PEL TWA	200 ppm
OSHA	OSHA PEL C	300 ppm
OSHA	Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift	500 ppm Peak (10 minutes)
OSHA	Remark (OSHA)	(2) See Table Z-2.
IDLH	IDLH	500 ppm
NIOSH	NIOSH REL TWA	375 mg/m³
NIOSH	NIOSH REL TWA	100 ppm
NIOSH	NIOSH REL STEL	560 mg/m³
NIOSH	NIOSH REL STEL	150 ppm

2-aminoethanol (141-43-5)		
ACGIH	ACGIH OEL TWA	3 ppm
ACGIH	ACGIH OEL STEL	6 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Wear chemical resistant gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear long-sleeved shirt, long pants, socks and shoes

Respiratory protection:

In case of insufficient ventilation, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Amber colored liquid
Color	:	Amber
Odor	:	Mild chemical
Odor threshold	:	No data available
pH	:	9.02 (1% suspension in water)
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 100 °C (> 212 °F) TCC
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability	:	Not applicable
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	1.04
Bulk density	:	8.65 lb./gal
Solubility	:	Soluble
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	12.9 Centistoke (cSt, cS) or mm2/sec @ 25 °C (77 °F)
Explosion limits	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not applicable
VOC content	:	0 % w/w

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat, sparks, open flame. Excess heat. Do not freeze.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Image Herbicides Crabgrass, Nutsedge & Weed Killer For Lawns Concentrate	
LD50 oral	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.13 mg/l/4h

GHS-US Properties	Classification
Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Harmful if inhaled.
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity (single exposure)	Not classified
Specific target organ toxicity (repeated exposure)	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified

Potential health effects

General

Chronic : May cause damage to organ(s) through prolonged or repeated exposure - liver, kidney, hematopoietic system.

Inhalation

Acute : Harmful if inhaled.

Skin

Acute : Under normal conditions of use, no health effects are expected.

Eye

Acute : Causes serious eye irritation.

Ingestion

Acute : Under normal conditions of use, no health effects are expected.

Mutagenicity : Sulfentrazone: Not genotoxic in animal studies.

Carcinogenicity : Sulfentrazone: No evidence of carcinogenicity from animal studies.

Reproductive Effects : Sulfentrazone: No toxicity to reproduction in animal studies. Sulfentrazone: Fetal weight decreased; delayed skeletal ossification observed at maternally non-toxic doses are reversible effects and a dose-response is established; malformations observed in fetuses at maternally toxic doses and consistent with the mode of action for protoporphyrogen oxidase inhibitors.

SECTION 12: Ecological information

12.1. Toxicity

Sulfentrazone (122836-35-5)	
LC50 Acute fish 1	94 ml/l Exposure time: 96h
EC50 Acute crustacea 1	60.4 Exposure time: 48h
ErC50 algae	32.8 mg/l Exposure time: 72h
NOEC Chronic fish 1	5.9 mg/l
NOEC Chronic crustacea 1	0.51 mg/l

Quinclorac (84087-01-4)	
LC50 Acute fish 1	> 100 mg/l Exposure time: 96h
EC50 Acute crustacea 1	29.8 Exposure time: 48h - Daphnia
ErC50 algae	6.53 mg/l Exposure time: 72h
NOEC Chronic crustacea 1	50.4 mg/l

12.2. Persistence and degradability

Image Herbicides Crabgrass, Nutsedge & Weed Killer For Lawns Concentrate	
Persistence and degradability	Quinclorac, Sulfentrazone: Persistent. Does not readily hydrolyze.

12.3. Bioaccumulative potential

Image Herbicides Crabgrass, Nutsedge & Weed Killer For Lawns Concentrate	
Bioaccumulative potential	Quinclorac, Sulfentrazone: The substance does not have a potential for bioconcentration.

12.4. Mobility in soil

Image Herbicides Crabgrass, Nutsedge & Weed Killer For Lawns Concentrate	
Mobility in soil	Quinclorac, Sulfentrazone: Mobile, Has potential to reach ground water

12.5. Other adverse effects

Image Herbicides Crabgrass, Nutsedge & Weed Killer For Lawns Concentrate	
Ecological Fate	This product is toxic to marine/estuarine invertebrates.

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

	UN number	Proper Shipping Name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not regulated	Not regulated	Not regulated	Not regulated	Not applicable
IMDG	UN3082	Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, n.o.s. (Sulfentrazone)	9	III	Marine pollutant
IATA	UN3082	Packaging greater than 5 L: Environmentally Hazardous substance, Liquid, n.o.s. (Sulfentrazone)	9	III	Acute aquatic toxicity

SECTION 15: Regulatory information

15.1. US Federal regulations

Toluene (108-88-3)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
SARA Section 313 - Emission Reporting	1 %

Polyethylene glycol mono(octylphenyl) ether (9036-19-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

EPA Labelling	
EPA Registration Number	279-3463-90098
This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.	
FIFRA Hazard statements	**Caution**
FIFRA Precautionary statements	KEEP OUT OF REACH OF CHILDREN.

FIFRA Hazards to Humans and Domestic Animals	Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wear long-sleeved shirt, long pants, shoes, socks and waterproof gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse.
FIFRA First aid	If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. If on skin or on clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. If in eyes: 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 poison control center or doctor for treatment advice.
FIFRA Environmental hazards	This product is toxic to marine/estuarine invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. This product may impact surface water quality due to runoff of rain water or spray drift. Under certain conditions this product may have a high potential for runoff into surface water for several months after application. This is especially true for poorly draining soils and soils with shallow ground water. The active ingredients in this product are known to leach through soil into groundwater under certain conditions as a result of labeled use. Use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

15.2. US State regulations

No additional information available

SECTION 16: Other information

Issue date	:	21 August 2015
Revision date	:	21 March 2024
Supersedes	:	31 October 2022

Indication of changes:
Revised Sec. 1: Material name change. Revised Sec. 1: Revised material number(s).

SDS US (GHS HazCom 2012) - CGP

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