

KIM-C1, LLC

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SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT TRADE NAME: Kimzall Plant Growth Regulator

PRODUCT CODE: EPA Reg. No. 71049-4

PRODUCT TYPE: Plant Growth Regulator

CHEMICAL NAME: CPPU, Forchlorfenuron (N-(2-chloro-4-pyridinyl)-N'-phenylurea)

MANUFACTURER/REGISTRANT: KIM-C1, LLC. 1300 W. Shaw Avenue, Suite 1B, Fresno, CA 93711

EMERGENCY PHONE NUMBER (CHEMTREC): 1-800-424-9300

FOR PRODUCT INFORMATION, CALL NATIONAL PESTICIDE INFORMATION CENTER: 1-800-858-7378

SECTION 2 HAZARDS IDENTIFICATION

THE FOLLOWING HAZARDS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 OSHA HCS

HAZARD CLASSIFICATIONS:

Acute inhalation toxicity: Category 4

Eye damage/irritation: Category 2B

SIGNAL WORD: WARNING

PICTOGRAM:



HAZARD STATEMENTS:

- Harmful if inhaled
- Causes eye irritation

PRECAUTIONARY STATEMENTS:

- Avoid breathing mist or spray. Use only outdoors or in a well-ventilated area. If inhaled, Remove victim to fresh air and keep comfortable for breathing. Call a poison center if you feel unwell.
- Wash hands thoroughly after handling. 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.

Contact Chemtrec for emergency medical treatment at 1- 800-424-9300.

STORAGE AND DISPOSAL: See Section 7 and 13.

OTHER HAZARDS: See Section 11 and 12.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>CAS NO.</u>	<u>%</u>
Forchlorfenuron	68157-60-8	0.8
Propylene Carbonate	108-32-7	6- 10
Propylene Glycol	57-55-6	60-70
Sodium Hydroxide	1310-73-2	> 0.1
Other Components	proprietary	<20

SECTION 4 FIRST AID

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.

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 INHALED: 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 poison control center or doctor for further treatment advice.

Notes: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In the event of medical emergency, you may also contact the National Pesticide Telecommunications Network (NPTN) at 1-800-858-7378.

SECTION 5 FIRE FIGHTLING MEASURES

FLASH POINT: Non-flammable

FLAMMABLE LIMITS: Not available

EXTINGUISHING MEDIA: Dry chemical or water spray or water fog or CO₂ or Foam or Sand/Earth

UNUSUAL FIRE & EXPLOSION HAZARDS: In the event of fire, irritating and toxic gasses can release due to thermal decomposition or combustion.

SPECIAL FIREFIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES: Absorb with an inert material such as sand, soil or vermiculite, and sweep up and dispose in accordance with federal, state and local regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep out of reach of children. Do not swallow. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist and vapors. Containers, even those that have been emptied, can

contain vapors. No smoking, open flames or sources of ignition in handling and storage area.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store under cool conditions. Do not contaminate water, food or feed by storage or disposal. Keep pesticide in original container. Store between 40°F and 120°F.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL PROTECTIVE MEASURES: Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

SKIN/HAND PROTECTION: Coveralls over long-sleeved shirt and pants. Chemical-resistant gloves. Chemical – resistant footwear plus socks.

EYE/FACE PROTECTION: Use chemical goggles. Refer to the product label for additional personal protective clothing and equipment.

RESPIRATOR REQUIREMENTS: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required use a NIOSH approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENGINEERING CONTROLS: See product label. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guideline.

EXPOSURE LIMITS:

Chemical Name	CAS NO.	ACGIH/TLV	OSHA/PEL	NIOSH
Sodium hydroxide	1310-73-2	2 mg/m ³ (Ceiling)	2 mg/m ³ (TWA)	2 mg/m ³ (Ceiling)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid

ODOR: Mild to moderate alcoholic

ODOR THRESHOLD: Not available

pH: 5.2

FLASH POINT: Non-flammable

DENSITY: 8.84 lbs/gal

WATER SOLUBILITY: Emulsifiable

VISCOSITY: 45.3mPas@25°C; 15.7mPas@45°C

FLAMMABILITY (Solid, Gas): Not applicable

UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS: Not available

AUTO-IGNITION TEMPERATURE: Not available

EXPLODABILITY: Not applicable

SOLUBILITY: Not available

PARTITION COEFFICIENT (n-OCTANOL/WATER): Not available

VAPOR PRESSURE: Not available

VAPOR DENSITY: Not available

MELTING POINT/FREEZING POINT: Not applicable

BOILING POINT: Not available

EVAPORATION RATE: Not available

DECOMPOSITION TEMPERATURE: Not available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Product is stable under normal conditions.

INCOMPATIBILITY: Keep away from strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

THERMAL DECOMPOSITION: May release irritating and toxic gases due to thermal decomposition or combustion.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION DATA: (Based on the end-use product)

ACUTE ORAL TOXICITY (Rat): LD₅₀ > 5000 mg/kg

ACUTE DERMAL TOXICITY (Rat): LD₅₀ > 5050 mg/kg

ACUTE INHALATION TOXICITY (Rat): LC₅₀ > 2.14 mg/L

EYE IRRITATION (Rabbit): Minimally irritating

SKIN IRRITATION (Rabbit): Slightly irritating

SKIN SENSITIZATION (Guinea pig): Not a skin sensitizer

REPRODUCTIVE/DEVELOPMENTAL EFFECTS: (Based on Forchlorfenuron technical)

The only effects observed in a developmental study in rats were increased incidence of alopecia and decreases in maternal and fetal body weights at the highest dose tested. The effects in reproductive/offspring based on pup mortality, emaciation, and decrease in pups/litter occurred at the same or higher doses at which effects were observed in the parental animals. No evidence of increased qualitative or quantitative susceptibility.

CHRONIC/SUBCHRONIC EFFECTS: (Based on Forchlorfenuron technical)

In subchronic and chronic dog studies, dose-related effects were generally limited to decreased body weight and body weight gains. In rats, the only organ that appeared to be affected was the kidney, which showed supportive inflammation in males and non-supportive interstitial nephritis in females only in a 2-year rat study.

CARCINOGENICITY: (Based on Forchlorfenuron technical)

Carcinogenicity studies indicated no evidence of an increase in the incidence of tumors in either the rat or the mouse, and Forchlorfenuron has been classified as not likely to be a human carcinogen.

CARCINOGENICITY ASSESSMENT:

ACGIH: None

NTP : None

IARC : None

OSHA : None

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

ECOTOXICOLOGICAL INFORMATION: (Based on Forchlorfenuron technical)

Rainbow trout LC₅₀ > 9.2 ppm

Bluegill sunfish LC₅₀ > 8.8 ppm

Daphnia magna EC₅₀ 8.0 ppm (flow through)

Bobwhite quail LD₅₀ > 2250 ppm

Bobwhite quail LC₅₀ > 5620 ppm (subchronic)

Mallard duck LC₅₀ > 5620ppm (subchronic)

ENVIRONMENTAL FATE:

Forchlorfenuron is highly persistent in the environment with laboratory half-lives ranging from 226 – 578 days in terrestrial environments and stable in aquatic environments.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Dispose of in accordance with all applicable federal, state and local regulations.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

SECTION 14 TRANSPORT INFORMATION

US DOT Classification:

Not Regulated.

SECTION 15 REGULATORY INFORMATION

FIFRA INFORMATION:

This chemical is a pesticide product registered 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 for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed, inhaled or absorbed through skin. Do not breath in vapors or spray mist.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)
Chronic health hazard (delayed)

Section 313: Not applicable

CERCLA RQ: Propylene oxide (CAS No. 75-56-9) RQ = 100 lbs.

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: All ingredients are listed on the TSCA inventory or are not required to be listed on the TSCA inventory.

CA PROPOSITION 65: This product contains less than 0.1% of a chemical known to the State of California to cause cancer. (Propylene oxide CAS No. 75-56-9)

STATE RIGHT-TO-KNOW:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>List</u>
Propylene Glycol	57-55-6	NJ, PA

SECTION 16 OTHER INFORMATION

SDS DATE: 7-21-2017. Supersedes version dated 7-1-2015. Added Product Code to Section 1.

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of KIM-C1, LLC's knowledge; however, KIM-C1, LLC makes no warranty whatsoever, expressed or implied, of merchantability or fitness for the particular purpose regarding the accuracy of such responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.