

Maxunitech North America, Inc.

SAFETY DATA SHEET

Issue Date 17-Aug-2023	Version #9				
1. IDENTIFICATION					
Product identifier Product Name Maxunitech [®] Carfentrazone-ethyl 240EC Herbicide					
<u>Other means of identification</u> Synonyms					
Registration Number(s)	PCP No. 33127				
Recommended use of the chemical and restrictions on useRecommended UseHerbicideUses advised againstUse according to label					
Supplier's details Maxunitech North America, Inc. 11601 Shadow Creek Pkwy, Suite 111-573 Pearland, TX 77584, USA					
Emergency telephone numberCompany Phone Number1-855-462-9621					
Emergency Telephone For spills or transportation accidents, Chemtrec, 1-800-424-9300.					
2. HAZARDS IDENTIFICATION					
Classification of the substance of	or mixture				
Classification according to Regulation (GHS Rev.10) Flammable liquids- Category 4 Acute oral- Category 5 Acute dermal- Category 5 Carcinogenicity - Category 2 Reproductive toxicity - Category 1B Aspiration Toxicity - Category 1 Hazardous to aquatic environment, acute -Category 1 Hazardous to aquatic environment, chronic -Category 1					
GHS label elements, including precautionary statements					
Pictograms					
Signal word Danger					
Hazard statement(s)					

H227 Combustible liquid



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H303+H313 May be harmful if swallowed or in contact with skin H304 May be fatal if swallowed and enters airways H351 Suspected of causing cancer H360 May damage fertility or the unborn child H410 Very toxic to aquatic life with long lasting effect Precautionary statement(s) Prevention P203 Obtain, read and follow all safety instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. Precautionary statement(s) Response P301 + P316 IF SWALLOWED: Get emergency medical help immediately. P302 + P317 IF ON SKIN: Get medical help. P318 IF exposed or concerned, get medical advice. P331 Do NOT induce vomiting. P370 + P378 In case of fire: Use Suitable extinguishing media to extinguish. P391 Collect spillage.

Precautionary statement(s) Storage P403 Store in a well-ventilated place. P405 Store locked up.

Precautionary statement(s) Disposal P501 Dispose of contents/container in according with local regulation.

Other hazards which do not result in classification

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

Chemical Name	CAS No	%
Naphtha (petroleum), heavy	64742-94-5	<70
aromatic		
Carfentrazone-ethyl	128639-02-1	24
Calcium alkyl benzene	26264-06-2 /	<3
sulphonate / isobutanol	78-83-1	
1-Methyl-2-pyrrolidone	872-50-4	<3

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

4. FIRST AID MEASURES

Description of necessary first-aid measures

General adviceCall a poison control center or doctor for treatment advice. Have the product containers or label
with you when calling a poison control center or doctor, or going for treatment.Eye contactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove
contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or
doctor for treatment advice.



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Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Call		
a poison control center or doctor for treatment advice.			
Inhalation	Move person to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Call a poison control center or doctor for treatment advice.		
Ingestion	Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.		
Self-protection of the first aider	er Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.		
Most important symptoms/effects, acute and delayed			
Symptoms	Central nervous system effects. Gastrointestinal effects.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians Treatment is symptomatic and supportive. Contains petroleum distillates. Do not induce vomitir unless told to do so by the poison centre or doctor. Vomiting may cause aspiration pneumonia.			
5. FIRE-FIGHTING MEASURES			

Suitable extinguishing media

Dry chemical, CO₂, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.

Specific hazards arising from the chemical

Combustible material. May support combustion at elevated temperatures. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides (NOx). Sulfur oxides.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Keep away from sources of ignition. Prevent fire-fighting water from entering surface water or groundwater. Cool containers with spray water from a safe distance. Never use welding or cutting torch on or near container (even empty) because product may ignite explosively.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away and upwind of spill/leak.	
For emergency responders	Use personal protection recommended in Section 8. Ventilate the area.	
Environmental precautions	Prevent entry into waterways, sewers, basements or confined areas.	



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Methods and material for contain	ment and cleaning up		
Methods for containment	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.		
Methods for cleaning up	Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up and shovel into suitable containers for disposal. Dispose of waste as indicated in Section 13.		
	7. HANDLING AND STORAGE		
Precautions for safe handling			
Advice on safe handling	Keep away from heat/sparks/open flames/hot surfaces. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Do not breathe dust/ fume/ gas/ mist/vapors/spray.		
Conditions for safe storage, inclu	iding any incompatibilities		
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep out of the reach of children and animals. Keep away from food, drink and animal feeding stuffs. Keep in properlylabeled containers.		
Packaging materials	Do not reuse container.		
Incompatible materials	Strong oxidizing agents.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Carfentrazone-ethyl (128639-02-1)	TWA: 1 mg/m ³	-	-
Isobutanol (78-83-1)	-	PEL: 300 mg/m ³ PEL: 100 ppm	TWA: 150 mg/m³ TWA: 50 ppm
Chemical Name	Canada - Ontario	Canada - Québec	United Kingdom
lsobutanol (78-83-1)	TLV: 50 ppm	TLV: 152 mg/m³	TLV: 154 mg/m ³ TLV: 50 ppm STEL: 231 mg/m ³ STEL: 75 ppm
Methyl pyrrolidone (872-50-4)	TLV: 400 mg/m³	-	TWA: 40 mg/m ³ TWA: 10 ppm STEL: 80 mg/m ³ STEL: 20 ppm

Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection	Wear safety glasses with side shields (or goggles).

Skin and body protection	Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or
	boots.



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Respiratory protection	Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State
Color
Odor
Odor threshold
рН
Melting point/freezing point
Boiling Point/Range
Flash point
Evaporation Rate
Flammability (solid, gas)
Flammability Limit in Air
Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Specific gravity
Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity, kinematic
Viscosity, dynamic
Explosive properties
Oxidizing properties
Molecular weight
Bulk density

Brown Orange Liquid Liquid Brown orange Aromatic No information available 5 - 7 (1% solution) Not applicable No information available 66 °C / 150.8°F Closed cup No information available No information available

No information available No information available No information available No information available 0.98-1.02 g/ml No information available No information available

10. STABILITY AND REACTIVITY

 Reactivity

 None under normal use conditions

 Chemical stability

 Stable under recommended storage conditions.

 Possibility of Hazardous Reactions

 None under normal processing.

 Conditions to avoid

 Heat, flames and sparks. Elevated Temperature. Storage near to reactive materials.

 Incompatible materials

 Strong oxidizing agents.

 Hazardous Decomposition Products

 Thermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NOx). Carbon oxides, Hydrogen

I hermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NOx). Carbon oxides, Hydrogen chloride, Hydrogen fluoride, Sulfur oxides.

11. TOXICOLOGICAL INFORMATION



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Information on likely routes of exposure

LD₅₀ Oral LD₅₀ Dermal LC₅₀ Inhalation		4077 mg/kg (rat) > 4000 mg/kg (rat) > 6.31 mg/L 4 hr (rat)	
Serious eye damage/ey Skin corrosion/irritatio Sensitization		Mildly irritating. Mildly irritating (rabbit). Non-sensitizing	
Information on toxicological effects			
Symptoms	Signs of tox diarrhea.	icity in laboratory animals included mydriasis, cyan	
Delayed and immediat	e effects as	well as chronic effects from short and long-tern	
Chronic toxicity		Long-term exposure caused neurotoxicity (body t decreased body weight and increased liver and s	
Mutagenicity		Carfentrazone-ethyl: Not genotoxic in laboratory	
Carcinogenicity		Carfentrazone-ethyl: No evidence of carcinogenic	

nosis, ataxia, dyspnea, lacrimation, and

<u>m exposure</u>

Chronic toxicity	Long-term exposure caused neurotoxicity (body tremors, decreased motor activity), decreased body weight and increased liver and spleen weight.
Mutagenicity	Carfentrazone-ethyl: Not genotoxic in laboratory studies.
Carcinogenicity	Carfentrazone-ethyl: No evidence of carcinogenicity from animal studies. There was no evidence of carcinogenic activity of naphthalene in male mice, but there was some evidence of carcinogenic activity in female mice and clear evidence of carcinogenic activity in male and female rats in 2-year inhalation studies conducted by the National Toxicology Program (NTP).
Neurological effects	Carfentrazone-ethyl: Not neurotoxic.
Reproductive toxicity	Carfentrazone-ethyl: No toxicity to reproduction in animal studies.
Developmental toxicity	Carfentrazone-ethyl: Not teratogenic in animal studies.
STOT - single exposure STOT - repeated exposure	Not classified. Not classified.
Neurological effects	Carfentrazone-ethyl: Not neurotoxic.
Aspiration hazard	Potential for aspiration if swallowed. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in fatal pulmonary edema.

Naphtha (petroleum), heavy aromatic:

Carcinogen: Suspected of causing cancer.

Specific target organ toxicant (central nervous system): May cause drowsiness or dizziness. Aspiration toxicant: May be fatal if swallowed and enters airways.

Calcium alkyl benzene sulphonate in isobutanol:

Irritant effect on eyes: Risk of serious damage to eyes (rabbit eye). Irritant effect on skin: Irritant (rabbit)

Methyl pyrrolidone:

Skin corrosion/irritation: Cause skin irritation. Serious eye damage/irritation: Cause serious eye irritation. Reproductive toxicity: May damage the unborn child. Specific target organ toxicity - single exposure: May cause respiratory irritation. Specific target organ toxicity - repeated exposure: Cause damage to organs through prolonged or repeated exposure: Liver, Respiratory system, Bone marrow, Kidney, Spleen, Adrenal gland.

12. ECOLOGICAL INFORMATION

ADD: 11601 Shadow Creek Pkwy, Suite 111-573, Pearland, TX 77584, USA

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Ecotoxicity

Very toxic to aquatic life with long lasting effects

Carfentrazone-ethyl (128639-	02-1)			
Active Ingredient(s)	Duration	Species	Value	Units
	72 h EC50	Algae	0.012	mg/L
	96 h LC50	Fish	1.6	mg/L
	48 h LC50	Daphnia	>9.8	mg/L
	96 h NOEC	Algae	1.0	μg/L
	21 d NOEC	Fish	0.0187	mg/L
	21 d NOEC	Crustacea	0.22	mg/L

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Naphtha (petroleum), heavy aromatic 64742-94-5	72 h EC50: = 2,5 mg/L (Skeletonema costatum)	96 h LC50: = 1740 mg/L (Lepomis macrochirus) static 96 h LC50: = 19 mg/L (Pimephales promelas) static 96 h LC50: = 2,34 mg/L (Oncorhynchus mykiss) 96 h LC50: = 41 mg/L (Pimephales promelas) 96 h LC50: = 45 mg/L (Pimephales promelas) flow-through	48 h EC50: = 0,95 mg/L (Daphnia magna)
Calcium alkyl benzene sulphonate in isobutanol 26264-06-2 78-83-1	No data available	96 h LC50: > 1-10 mg/L (Danio rerio (zebra fish))	No data available

Persistence and degradability

Carfentrazone-ethyl: Non-persistent. Readily hydrolyzed. Not readily biodegradable.

Bioaccumulation

Carfentrazone-ethyl: The substance does not have a potential for bioconcentration.

Mobility in soil

No information available.

Other adverse effects

Unknown

DOT

13. DISPOSAL CONSIDERATIONS

	regulations. Consult product laber for additional mormation. Do not reduce container
Contaminated packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations. Consult product label for additional information. Do not reuse container
Disposal methods Disposal of wastes	Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on proper disposal of waste product.

Not regulated for transportation if shipped in Non Bulk packaging. The classification below pertains to the shipment in Bulk packaging.



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UN/ID no Proper Shipping Name Hazard class Packing Group Environmental hazards	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl) 9 III Marine Pollutant: Carfentrazone-ethyl.
<u>TDG</u> UN/ID no Proper Shipping Name Hazard class Packing Group	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl) 9 III
<u>ICAO/IATA</u> UN/ID no Proper Shipping Name Hazard class Packing Group	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl) 9 III
IMDG/IMO UN/ID no Proper Shipping Name Hazard class Packing Group	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl) 9 III

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

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

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European 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

Any other Canadian specific regulatory information

Read the label, authorized under the Pest Control Products Act, prior to using or handling the pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the *Pest Control Products Act*. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

CAUTION EYE AND SKIN IRRITANT

There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.



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16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

MSDS Creation Date Issue Date Revision Date Revision Note 06-May-2011 17-Aug-2023 17-Aug-2023 Revision #8 (Revision Date: 14-Mar-2022) is superseded.

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet