

1 Identification

· **Product identifier**

· **Trade name:** RICESTAR HT HERBICIDE

· **Article number:** US88152

· **CAS Number:**

EPA Registration No.: 264-682-10163

Active Ingredient: Fenoxaprop-P-ethyl (6.70%), CAS: 71283-80-2

· **Application of the substance / the mixture** Agricultural herbicide

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Gowan Company, LLC.

P.O. Box 5569

Yuma, Arizona 85366-5569

(928) 783-8844

· **Information department:** sds@gowanco.com

· **Emergency telephone number:**

Chemtrec® Emergency Telephone 24 - Hours: (Spills, leak or fire) Inside U.S. & Canada: (800) 424-9300

Outside the U.S. & Canada: +011 (703) 527-3887

For medical emergency (ProPharma Group®): (888) 478-0798

2 Hazard(s) identification

· **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity 2

H351 Suspected of causing cancer.

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure 2

H371 May cause damage to organs.

Specific Target Organ Toxicity - Repeated Exposure 2

H373 May cause damage to the kidneys through prolonged or repeated exposure.

Aspiration Hazard 1

H304 May be fatal if swallowed and enters airways.



GHS09 Environment

Aquatic Acute 1

H400 Very toxic to aquatic life.

Aquatic Chronic 1

H410 Very toxic to aquatic life with long lasting effects.

Flammable Liquids 4

H227 Combustible liquid.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS08



GHS09

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· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

Solvent naphtha (petroleum), heavy arom.

M-Pyrol

2-[2-(2-{2-[2-(11-Methyl-dodecyloxy)-ethoxy]-ethoxy}ethoxy)-ethoxy]-ethanol
propanoic acid, 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-, ethyl ester, (2R)-
ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate

· **Hazard statements**

H227 Combustible liquid.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H371 May cause damage to organs.

H373 May cause damage to the kidneys through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from flames and hot surfaces. – No smoking.

P260 Do not breathe spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P331 Do NOT induce vomiting.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazard description:**

Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash clothing before reuse.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 2

Reactivity = 0

HAZARD INDEX:

4 Severe Hazard

3 Serious Hazard

2 Moderate Hazard

1 Slight Hazard

0 Minimal Hazard

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable in US.

· **vPvB:** Not applicable in US.

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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 64742-94-5	Solvent naphtha (petroleum), heavy arom. ⚠️ Aspiration Hazard 1, H304; ⚠️ Aquatic Chronic 2, H411; ⚠️ Specific Target Organ Toxicity - Single Exposure 3, H336; Flammable Liquids 4, H227; Aquatic Acute 2, H401	46.3%
CAS: 872-50-4	M-Pyrol ⚠️ Toxic to Reproduction 1B, H360; ⚠️ Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335; Flammable Liquids 4, H227	14.9%
CAS: 78330-21-9	2-[2-(2-{2-[2-(11-Methyl-dodecyloxy)-ethoxy]-ethoxy}ethoxy)-ethoxy]-ethanol ⚠️ Eye Damage 1, H318; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 3, H412	7.8%
CAS: 91-20-3	naphthalene ⚠️ Carcinogenicity 2, H351; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Toxicity - Oral 4, H302; Flammable Liquids 4, H227	7.5%
CAS: 71283-80-2	propanoic acid, 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-, ethyl ester, (2R)- ⚠️ Specific Target Organ Toxicity - Repeated Exposure 2, H373; ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Sensitization - Skin 1, H317	6.7%
CAS: 163520-33-0	ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate ⚠️ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠️ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	3.75%
CAS: 68953-96-8	Acide benzènesulfonique, dérivés alkylés ramifiés en mono-C11-13, sels de calcium ⚠️ Eye Damage 1, H318; ⚠️ Aquatic Chronic 2, H411; ⚠️ Skin Irritation 2, H315; Aquatic Acute 2, H401	2.1%

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may also contact 1-888-478-0798 for emergency medical treatment information.

· **After eye contact:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes.
 - Call a poison control center or doctor for treatment advice.

· **After swallowing:**

- Immediately call a poison control center or doctor.
 - Do not induce vomiting unless told to do so by the poison control center or doctor.
 - Have a person sip a glass of water if able to swallow
 - Do not give anything by mouth to an unconscious person.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed**

Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

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- **Indication of any immediate medical attention and special treatment needed**
Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.
There is no specific antidote.

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x)
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
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.
 - **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Flash point 91.1 °C

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

CAS: 872-50-4	M-Pyrol	30 ppm
CAS: 91-20-3	naphthalene	15 ppm

· **PAC-2:**

CAS: 872-50-4	M-Pyrol	32 ppm
CAS: 91-20-3	naphthalene	83 ppm

· **PAC-3:**

CAS: 872-50-4	M-Pyrol	190 ppm
CAS: 91-20-3	naphthalene	500 ppm

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7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- **Information about protection against explosions and fires:** Keep respiratory protective device available.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:** Store in a cool, dry, well-ventilated area.

- **Information about storage in one common storage facility:**

Store in original container away from feed and food. Store in cool, dry area. Do not store in direct sunlight.

Do not allow prolonged storage in temperatures that exceed 105°F (40°C) or in temperatures that fall below 14°F (-10°C).

- **Further information about storage conditions:** Keep receptacle tightly sealed.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 872-50-4 M-Pyrol (14.9%)	
TLV	BEI
WEEL	Long-term value: 10 ppm Skin
CAS: 91-20-3 naphthalene (7.5%)	
PEL	Long-term value: 50 mg/m ³ , 10 ppm
REL	Short-term value: 75 mg/m ³ , 15 ppm Long-term value: 50 mg/m ³ , 10 ppm
TLV	Long-term value: 10 ppm Skin; BEI, A3
· Regulatory information	
TLV: Guide to Occupational Exposure Values (TLV)	
WEEL: Guide to Occupational Exposure Values (AIHA WEELS)	
PEL: Guide to Occupational Exposure Values (OSHA PELs)	
REL: Guide to Occupational Exposure Values (NIOSH RELs)	
· Ingredients with biological limit values:	
CAS: 872-50-4 M-Pyrol (14.9%)	
BEI	100 mg/L Medium: urine Time: end of shift Parameter: 5-Hydroxy-N-methyl-2-pyrrolidone

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CAS: 91-20-3 naphthalene (7.5%)

BEI -

Medium: -

Time: end of shift

Parameter: 1-Naphthol with hydrolysis + 2-Naphthol with hydrolysis (Nq,Ns)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale gases / fumes / aerosols.

· **Breathing equipment:**

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.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves** Chemical-resistant gloves.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:**

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

Liquid

· **Color:**

Light yellow

· **Odor:**

Aromatic

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· Odor threshold:	Not determined.
· pH-value at 20 °C (68 °F):	5-7
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flash point:	91.1 °C (196 °F)
· Flammability (solid, gaseous):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not determined.
· Density at 20 °C (68 °F):	1.03 g/cm ³ (8.59535 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Dispersible.
· Partition coefficient (n-octanol/water):	19,100 - 38,000 log POW
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid**
 - Direct sunlight.
 - Excessive heat.
- **Incompatible materials:** Oxidizing agents. Acids.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	4,430 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	>5.32 mg/l (rat)

· Primary irritant effect:

· **on the skin:** May be irritating to the skin

· **on the eye:** May be irritating to the eyes.

· **Sensitization:** No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 91-20-3	naphthalene	2B
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· NTP (National Toxicology Program)

CAS: 91-20-3	naphthalene	R
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· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

· Germ cell mutagenicity

Fenoxaprop-P-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. Isoxadifen-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

· 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. Isoxadifen-ethyl was not carcinogenic in lifetime feeding studies in rats and mice.

· Reproductive toxicity

Fenoxaprop-P-ethyl did not cause reproductive toxicity in a two-generation study in rats. Isoxadifen-ethyl did not cause reproductive toxicity in a two-generation study in rats.

· 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. Isoxadifen-ethyl did not cause specific target organ toxicity in experimental animal studies.

12 Ecological information

· Toxicity

This pesticide is toxic to fish, shrimp and oysters. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark except as indicated in the directions for use on rice. Do not contaminate arable land and/or water when disposing of equipment wash water or rinsate

LC50 (*Oncorhynchus mykiss* (rainbow trout)) 0.39 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

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LC50 (*Lepomis macrochirus* (Bluegill sunfish)) 0.19 mg/l

Exposure time: 96 h

The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.

LC50 (*Lepomis macrochirus* (Bluegill sunfish)) 0.22 mg/l

Exposure time: 96 h

The value mentioned relates to isoxadifen-ethyl.

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability**

Fenoxaprop-P-ethyl: Not rapidly biodegradable

Isoxadifen-ethyl: Not rapidly biodegradable

· **Behavior in environmental systems:**

· **Bioaccumulative potential**

Fenoxaprop-P-ethyl: Bioconcentration factor (BCF) 338 Does not bioaccumulate.

Isoxadifen-ethyl: Does not bioaccumulate.

· **Mobility in soil**

Fenoxaprop-P-ethyl: Immobile in soil

Isoxadifen-ethyl: Slightly mobile in soils

· **Ecotoxicological effects:**

· **Remark:** Toxic for fish

· **Other information:**

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. Apply this product as specified on the label.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

· **Uncleaned packagings:**

· **Recommendation:**

Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the

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container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**

· **DOT** Void
 · **ADR, IMDG, IATA** UN3082

· **UN proper shipping name**

· **DOT** Void
 · **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., NAPHTHALENE, CRUDE)
 · **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., NAPHTHALENE, CRUDE), MARINE POLLUTANT
 · **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha (petroleum), heavy arom., NAPHTHALENE, CRUDE)

· **Transport hazard class(es)**

· **DOT**
 · **Class** Void
 · **Label** -

· **ADR, IMDG, IATA**



· **Class** 9 Miscellaneous dangerous substances and articles
 · **Label** 9

· **Packing group**

· **DOT** Void
 · **ADR, IMDG, IATA** III

· **Environmental hazards:**

Product contains environmentally hazardous substances: 2-[2-(2-{2-[2-(11-Methyl-dodecyloxy)-ethoxy]-ethoxy}ethoxy)-ethoxy]-ethanol

· **Marine pollutant:** Symbol (fish and tree)
 · **Special marking (ADR):** Symbol (fish and tree)
 · **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles

· **Hazard identification number (Kemler code):** 90
 · **EMS Number:** F-A,S-F
 · **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

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· **Transport/Additional information:**· **DOT**· **Quantity limitations**

On passenger aircraft/rail: No limit

On cargo aircraft only: No limit

· **ADR**· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **IMDG**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

US DOT:

Non Bulk: Not regulated

OTHERS:

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (SOLVENT NAPHTHA (PETROLEUM), HEAVY
AROM., NAPHTHALENE, CRUDE), 9, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

EPA /FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency (EPA) 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, and for workplace labels of non-pesticide chemicals.

· **Marketing authorization number:**· **SARA Title III**· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 872-50-4 | M-Pyrol

CAS: 91-20-3 | naphthalene

· **TSCA (Toxic Substances Control Act):**

CAS: 64742-94-5 | Solvent naphtha (petroleum), heavy arom.

ACTIVE

CAS: 872-50-4 | M-Pyrol

ACTIVE

CAS: 78330-21-9 | 2-[2-(2-{2-[2-(11-Methyl-dodecyloxy)-ethoxy]-ethoxy}ethoxy)-ethoxy]-ethanol

ACTIVE

CAS: 91-20-3 | naphthalene

ACTIVE

CAS: 163520-33-0 | ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate

ACTIVE

CAS: 68953-96-8 | Acide benzènesulfonique, dérivés alkylés ramifiés en mono-C11-13, sels de calcium

ACTIVE

· **Hazardous Air Pollutants**

CAS: 91-20-3 | naphthalene

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· **Proposition 65**· **Chemicals known to cause cancer:**

CAS: 91-20-3 | naphthalene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

CAS: 872-50-4 | M-Pyrol

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

CAS: 91-20-3 | naphthalene

C, CBD

· **TLV (Threshold Limit Value)**

CAS: 91-20-3 | naphthalene

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

Not applicable

· **Signal word**

(USA EPA) WARNING

· **Hazard-determining components of labeling:**

Solvent naphtha (petroleum), heavy arom.

M-Pyrol

2-[2-(2-{2-[2-(11-Methyl-dodecyloxy)-ethoxy]-ethoxy}ethoxy)-ethoxy]-ethanol
propanoic acid, 2-[4-[(6-chloro-2-benzoxazolyl)oxy]phenoxy]-, ethyl ester, (2R)-
ethyl 5,5-diphenyl-2-isoxazoline-3-carboxylate· **Hazard statements**

H227 Combustible liquid.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H371 May cause damage to organs.

H373 May cause damage to the kidneys through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from flames and hot surfaces. – No smoking.

P260 Do not breathe spray.

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Safety Data Sheet

acc. to OSHA HCS

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Trade name: RICESTAR HT HERBICIDE

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 If swallowed: Immediately call a poison center/doctor.
 P331 Do NOT induce vomiting.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Systems Design and Control

· **Contact:** sds@gowanco.com

· **Date of preparation / last revision** 09/29/2022

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity - Oral 4: Acute toxicity – Category 4

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Sensitization - Skin 1: Skin sensitisation – Category 1

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration Hazard 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3