

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
 Product name : Volunteer Herbicide

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Herbicide

1.3. Details of the supplier of the safety data sheet

Tenkoz, Inc.
 1725 Windward Concourse, Ste 410
 Alpharetta, GA 30005 – USA

1.4. Emergency telephone number

Emergency number (CHEMTREC) : +1-800-424-9300

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GHS-US classification**

Flam. Liq. 4 H227
 Skin Irrit. 2 H315
 Eye Irrit. 2B H320
 Carc. 2 H351
 STOT RE 2 H373
 Asp. Tox. 1 H304

Full text of H statements : see section 16

2.2. Label elements**GHS-US labelling**

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H227 - Combustible liquid
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H320 - Causes eye irritation
 H351 - Suspected of causing cancer
 H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
 P202 - Do not handle until all safety precautions have been read and understood
 P210 - Keep away from heat, sparks, open flames. - No smoking
 P260 - Do not breathe mist, vapours
 P264 - Wash hands thoroughly after handling
 P280 - Wear protective gloves, protective clothing, eye protection
 P301+P310 - If swallowed: Immediately call a doctor
 P302+P352 - If on skin: Wash with plenty of soap, water
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P308+P313 - If exposed or concerned: Get medical advice/attention
 P314 - Get medical advice/attention if you feel unwell
 P321 - Specific treatment (see First aid measures on this label)
 P331 - Do NOT induce vomiting
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P362+P364 - Take off contaminated clothing and wash it before reuse
 P370+P378 - In case of fire: Use carbon dioxide (CO2), dry extinguishing powder, foam, Water fog to extinguish

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P403+P235 - Store in a well-ventilated place. Keep cool
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	% (w/w)	GHS-US classification
Heavy Aromatic Naphtha Solvent	(CAS No) 64742-94-5	55 – 65	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Clethodim (Main constituent)	(CAS No) 99129-21-2	20 – 30	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 STOT RE 2, H373
1,2,4-trimethylbenzene	(CAS No) 95-63-6	< 7	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411
Anionic/nonionic surfactant blend	(CAS No) trade secret	1 – 3	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Naphthalene	(CAS No) 91-20-3	0.5 – 1.5	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Artificial respiration and/or oxygen if necessary.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: 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.
First-aid measures after ingestion	: Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER or doctor/physician if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: May cause damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	: Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

All treatments should be based on observed signs and symptoms of distress in the patient.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water fog.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Combustible liquid.
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Explosion hazard : May form flammable/explosive vapour-air mixture.
 Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Precautionary measures fire : Store in dry, cool, well-ventilated area.
 Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. In case of fire: stop leak if safe to do so.
 Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.

6.1.1. For non-emergency personnel

Protective equipment : Avoid all eye and skin contact and do not breathe vapour and mist. Wear suitable gloves. rubber. Chemical goggles or safety glasses.
 Emergency procedures : Evacuate unnecessary personnel. Eliminate ignition sources.

6.1.2. For emergency responders

Protective equipment : Avoid all eye and skin contact and do not breathe vapour and mist. Wear protective rubber clothing with splash guard. rubber. Chemical goggles or safety glasses.
 Emergency procedures : Ventilate area. Stop leak, if possible without risk.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Do not discharge into drains or the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb and/or contain spill with inert material, then place in suitable container. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
 Methods for cleaning up : Take up in non-combustible absorbent material and shove into container for disposal. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

6.4. Reference to other sections

Section 13: disposal information. Section 7: safe handling. Section 8: personal protective equipment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. Keep away from heat/flame/sparks/hot surfaces. - No smoking.
 Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. No open flames. No smoking. Avoid breathing spray, mist, vapours. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product.
 Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.
 Storage conditions : Keep in fireproof place. Keep only in the original container in a cool well ventilated place. Keep container closed when not in use.
 Incompatible materials : Heat sources. Strong bases. Strong acids.
 Heat and ignition sources : Keep away from heat, sparks and flame.
 Prohibitions on mixed storage : Incompatible materials.
 Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

Herbicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Volunteer	
ACGIH	Not applicable

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Volunteer		
OSHA	Not applicable	
Clethodim (99129-21-2)		
ACGIH	Not applicable	
OSHA	Not applicable	
Heavy Aromatic Naphtha Solvent (64742-94-5)		
ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³
OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³
Naphthalene (91-20-3)		
ACGIH	ACGIH TWA (mg/m ³)	52 mg/m ³
ACGIH	ACGIH TWA (ppm)	10 ppm
ACGIH	ACGIH STEL (mg/m ³)	79 mg/m ³
ACGIH	ACGIH STEL (ppm)	15 ppm
ACGIH	Remark (ACGIH)	Hematologic eff; URT & eye irr; Skin; A3
OSHA	OSHA PEL (TWA) (mg/m ³)	50 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	10 ppm
1,2,4-trimethylbenzene (95-63-6)		
ACGIH	ACGIH TWA (mg/m ³)	123 mg/m ³
ACGIH	ACGIH TWA (ppm)	25 ppm
OSHA	Not applicable	
Anionic/nonionic surfactant blend (trade secret)		
ACGIH	Not applicable	
OSHA	Not applicable	

8.2. Exposure controls

Appropriate engineering controls	: Avoid creating mist or spray. Avoid splashing. Avoid any leak and work in fully closed specially engineered systems. Either local exhaust or general room ventilation is usually required.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear suitable gloves. rubber. protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing. Impervious clothing.
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges.
Other information	: Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear liquid.
Colour	: Amber
Odour	: Aromatic
Odour threshold	: No data available
pH	: 4.11 1% solution @ 25 °C
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 62.8 °C Closed Cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available

Explosive limits	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Can react vigorously with oxidizers.
Vapour pressure	: No data available
Relative density	: .96 g/mL @ 20°C
Relative vapour density at 20 °C	: No data available
Solubility	: Insoluble in water. Soluble in hydrocarbon solvents.
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: 2.05 cP @ 25°C
Viscosity, kinematic	: 2.096 cSt (calculated)
Viscosity, dynamic	: 6 mPa.s @ 25 °C

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Combustible liquid. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Open flame. Overheating. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong bases. Strong acids.

10.6. Hazardous decomposition products

May release flammable gases. Burning produces irritating, toxic and noxious fumes. Carbon dioxide. Nitrogen oxides. Sulphur oxides. Toxic chlorine compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure	: Inhalation; Skin and eye contact
Acute toxicity	: Not classified

Volunteer	
LD50 oral rat	2.92 g/kg female; 3.61 g/kg male; similar product Select 2EC Herbicide (Low Flash Point)
LD50 dermal rabbit	> 5 g/kg similar product Select 2EC Herbicide (Low Flash Point)
LC50 inhalation rat (mg/l)	> 5.4 mg/l/4h similar product Select 2EC Herbicide (Low Flash Point)
ATE US (oral)	2920.000 mg/kg bodyweight
Clethodim (99129-21-2)	
LD50 oral rat	1360 (1360 - 1630) mg/kg (from SDS for Arysta Technical (≥93%) Clethodim)
LD50 dermal rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg (from SDS for Arysta Technical (≥93%) Clethodim)
LC50 inhalation rat (mg/l)	3.9 mg/l/4h (from SDS for Arysta Technical (≥93%) Clethodim)
ATE US (oral)	1360.000 mg/kg bodyweight
ATE US (vapours)	3.900 mg/l/4h
ATE US (dust,mist)	3.900 mg/l/4h
Heavy Aromatic Naphtha Solvent (64742-94-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.28 mg/l/4h

Naphthalene (91-20-3)	
LD50 oral rat	490 mg/kg
LD50 dermal rabbit	20 g/kg
LC50 inhalation rat (mg/l)	> 340 mg/m ³ 1 hour
ATE US (oral)	490.000 mg/kg bodyweight
ATE US (dermal)	20000.000 mg/kg bodyweight

1,2,4-trimethylbenzene (95-63-6)	
LD50 oral rat	3415 mg/kg
LD50 dermal rat	3440 mg/kg
LC50 inhalation rat (ppm)	954 ppm
ATE US (oral)	3415.000 mg/kg bodyweight
ATE US (dermal)	3440.000 mg/kg bodyweight
ATE US (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation. (Irritating to rabbits on ocular application)
Respiratory or skin sensitisation	: Not classified (Negative. mouse)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

Naphthalene (91-20-3)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	3 - Reasonably anticipated to be Human Carcinogen

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	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Clethodim (99129-21-2)	
LC50 fish 1	> 33 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 hr 83.3% purity
EC50 Daphnia 1	20.2 mg/l
ErC50 (algae)	11.4 mg/l Green Algae

Naphthalene (91-20-3)	
LC50 fish 1	> 0.91 (0.91 - 2.82) mg/l <i>Oncorhynchus mykiss</i> (From Koppers SDS)
EC50 Daphnia 1	>= 1.96 mg/l From Koppers SDS
EC50 other aquatic organisms 1	33 mg/l From Sigma-Aldrich SDS
LC50 fish 2	> 1 (1 - 6.5) mg/l <i>Pimephales promelas</i> (From Sigma-Aldrich SDS)
LOEC (acute)	3.2 mg/l From Sigma-Aldrich SDS
NOEC (acute)	1.8 mg/l From Sigma-Aldrich SDS

1,2,4-trimethylbenzene (95-63-6)	
LC50 fish 1	7.72 mg/l
LC50 other aquatic organisms 1	3.6 mg/l
EC50 other aquatic organisms 1	2.356 mg/l

12.2. Persistence and degradability

Heavy Aromatic Naphtha Solvent (64742-94-5)	
Persistence and degradability	Not rapidly degradable.
Biodegradation	39 %

12.3. Bioaccumulative potential**Naphthalene (91-20-3)**

BCF fish 1	>= 427 (427 - 1158)
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12.4. Mobility in soil**Heavy Aromatic Naphtha Solvent (64742-94-5)**

Mobility in soil	Migrates to soil.
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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information**Department of Transportation (DOT)**

In accordance with DOT

Non-bulk (≤ 119 gallons)	: Not regulated
Bulk (>119 but <960 gallons)	: NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III
RQ Bulk (≥960 gallons)	: NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III, RQ(Naphthalene)
ERG	: 128

Additional information

Other information	: No supplementary information available.
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ADR

No additional information available

Transport by sea**IMDG**

Transport hazard class(es) (IMDG)	: Not applicable
Marine pollutant	:

Air transport**IATA**

Transport hazard class(es) (IATA)	: Not applicable
Marine pollutant	:

SECTION 15: Regulatory information**15.1. US Federal regulations****Clethodim (99129-21-2)**

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Naphthalene (91-20-3)Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313

CERCLA RQ	100 lb
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard

1,2,4-trimethylbenzene (95-63-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations**CANADA****Clethodim (99129-21-2)**

Not listed on the Canadian DSL (Domestic Substances List) inventory

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Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on the Canadian DSL (Domestic Substances List) inventory

Naphthalene (91-20-3)

Listed on the Canadian DSL (Domestic Substances List) inventory

1,2,4-trimethylbenzene (95-63-6)

Listed on the Canadian DSL (Domestic Substances List) inventory

EU-Regulations

Clethodim (99129-21-2)

Not listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Naphthalene (91-20-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

1,2,4-trimethylbenzene (95-63-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irrit. 2 H315

Carc. 2 H351

STOT RE 2 H373

Asp. Tox. 1 H304

Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

National regulations

Clethodim (99129-21-2)

Not listed on European List of Notified Chemical Substances (ELINCS)

Not listed on the Canadian Non-Domestic Substances List (NDSL)

Heavy Aromatic Naphtha Solvent (64742-94-5)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on Taiwan National Chemical Inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Naphthalene (91-20-3)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Chinese Catalog of Hazardous Chemicals

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on Taiwan National Chemical Inventory

1,2,4-trimethylbenzene (95-63-6)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on KECI (Korean Existing Chemicals Inventory)

Listed on Taiwan National Chemical Inventory

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Chinese Catalog of Hazardous Chemicals

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15.3. US State regulations

Naphthalene (91-20-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	

Naphthalene (91-20-3)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

15.4. US EPA – FIFRA Regulations

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. [EPA Registration No. 70506-484-55467]

Signal word (FIFRA)	:	WARNING
Hazard statements (FIFRA)	:	Causes substantial but temporary eye irritation. Avoid contact with skin. Do not get in eyes, on clothing or on skin. Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.
ENVIRONMENTAL HAZARDS	:	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 apply where runoff is likely to occur. Do not apply where weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment wash water or rinsate. The use of this product may pose a hazard to the federally designated endangered species of Solano Grass and Wild Rice. Use of this product is prohibited in the following areas where the species are known to exist: <ul style="list-style-type: none"> - Solano Grass: Solano County, California: the vernal lakes area bounded by the Union Pacific Railroad and Hastings Road to the north, Highway 113 to the east, Highway 12 to the south, and Travis Air Force Base to the west. - Wild Rice: Hays County, Texas
PHYSICAL OR CHEMICAL HAZARDS	:	Combustible. Do not use or store near heat or open flame.

SECTION 16: Other information

Indication of changes	:	GHS classification information.
Revision date	:	08/26/2021
Data sources	:	ACGIH (American Conference of Government Industrial Hygienists) European Chemicals Agency (ECHA) Registered Substances list. Accessed at http://echa.europa.eu/ . Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to Chemical Protective Clothing", Fifth Edition. National Fire Protection Association; Fire Protection Guide to Hazardous Materials; 10th edition. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html . Canadian Centre for Occupational Health and Safety. Accessed at: http://www.ccohs.ca/oshanswers/legisl/whmis_classifi.html
Abbreviations and acronyms	:	ATE: Acute Toxicity Estimate. CLP: Classification, Labelling, Packaging. CAS (Chemical Abstracts Service) number. GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). EC50: Environmental Concentration associated with a response by 50% of the test population. LD50: Lethal Dose for 50% of the test population. OSHA: Occupational Safety & Health Administration. STEL: Short Term Exposure Limits. TSCA: Toxic Substances Control Act. TWA: Time Weight Average.

Full text of H-statements:

H226	Flammable liquid and vapour
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard

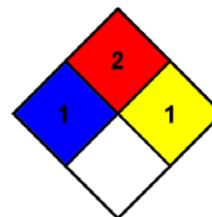
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.

NFPA reactivity

: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



Redstone SDS US GHS for Arysta

Revisions: New EPA Reg. No.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product