

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : TRIZENTA™ HERBICIDE
 Other means of identification : EPA Reg. Number 66330-353

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

Use of the substance/mixture : Herbicide
 Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America, LLC
 c/o UPL NA Inc.
 630 Freedom Business Center, Suite 402, King of Prussia, PA 19406
 T 1-866-761-9397

1.4. Emergency telephone number

Emergency number : Exposure calls (PROPHARMA): 1-866-303-6952 or +1-651-603-3432 (international)
 Spill calls (CHEMTREC) (Contract # CCN1779): 1-800-424-9300 or +1-703-527-3887 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS 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) :



GHS07

GHS08

Signal word (GHS) :

Danger

Hazard statements (GHS) :

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) :

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, sparks, open flames
 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.

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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.
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. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS classification
Heavy Aromatic Naphtha Solvent	(CAS-No.) 64742-94-5	59.6 – 59.9	Flam. Liq. 4, H227 Asp. Tox. 1, H304
Clethodim (Main constituent)	(CAS-No.) 99129-21-2	26.4	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
1,2,4-trimethylbenzene	(CAS-No.) 95-63-6	< 5.8707	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	2.46	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Naphthalene	(CAS-No.) 91-20-3	1.0381 – 1.0831	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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 water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Drench affected area with water for at least 15 minutes.
- 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. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart.
- First-aid measures after ingestion : Do NOT induce vomiting unless directed to do so by medical personnel. Call a POISON CENTER/doctor if you feel unwell.

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

- Symptoms/effects : Causes damage to organs.
- Symptoms/effects after inhalation : Inhalation may cause: irritation, coughing, shortness of breath.
- Symptoms/effects after skin contact : Causes skin irritation.

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- Symptoms/effects after eye contact : Causes eye irritation.
Symptoms/effects 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.
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 without risks if possible.

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 Sources of ignition. 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 mist, spray, 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.

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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

TRIZENTA™ HERBICIDE		
ACGIH	Not applicable	
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 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
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. Appropriate engineering 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.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

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Hand protection:

Wear suitable gloves resistant to chemical penetration. rubber. protective gloves

Eye protection:

Chemical goggles or safety glasses. Safety glasses with side shields

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 (butylacetate=1)	: No data available
Flammability (solid, gas)	: Combustible liquid.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.96 g/ml @ 20 °C
Solubility	: insoluble in water. Soluble in hydrocarbon solvents.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 2.096 mm ² /s (calculated)
Viscosity, dynamic	: 6 mPa·s @ 25 °C
Explosive limits	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: can react vigorously with oxidizers.

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.

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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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

TRIZENTA™ HERBICIDE	
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 (oral)	2920 mg/kg bodyweight

Clethodim (99129-21-2)	
LD50 oral rat	1360 – 1630 mg/kg
LD50 dermal rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	3.9 mg/l/4h
ATE (oral)	1360 mg/kg bodyweight
ATE (vapours)	3.9 mg/l/4h
ATE (dust,mist)	3.9 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 (oral)	490 mg/kg bodyweight
ATE (dermal)	20000 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 (oral)	3415 mg/kg bodyweight
ATE (dermal)	3440 mg/kg bodyweight
ATE (dust,mist)	1.5 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	Reasonably anticipated to be Human Carcinogen

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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

Clethodim (99129-21-2)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard	: May be fatal if swallowed and enters airways.
Viscosity, kinematic	: 2.096 mm ² /s (calculated)
Symptoms/effects	: Causes damage to organs.
Symptoms/effects after inhalation	: Inhalation may cause: irritation, coughing, shortness of breath.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes eye irritation.
Symptoms/effects 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 96 hr <i>Lepomis macrochirus</i> (Bluegill)
EC50 crustacea	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>
EC50 crustacea	≥ 1.96 mg/l
EC50 other aquatic organisms 1	33 mg/l
LC50 fish 2	> 1 (1 – 6.5) mg/l <i>Pimpephales promelas</i>
LOEC (acute)	3.2 mg/l
NOEC (acute)	1.8 mg/l

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)

12.4. Mobility in soil

Heavy Aromatic Naphtha Solvent (64742-94-5)	
Mobility in soil	Migrates to soil.

12.5. Other adverse effects

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.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	: NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III
UN-No.(DOT)	: NA1993
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s. Heavy aromatic naphtha solvent
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: III - Minor Danger
Other information	: Non-bulk (<= 119 gallons / 450 Liters) Not Regulated; Bulk (> 119 gallons / 450 Liters) Regulated as stated. RQ Bulk (≥960 gallons) : NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III, RQ(Naphthalene).

Transport by sea

IMDG

Transport hazard class(es) (IMDG)	: Not applicable
Marine pollutant	: No

Air transport

IATA

Transport hazard class(es) (IATA)	: Not applicable
Marine pollutant	: No

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Naphthalene	CAS-No. 91-20-3	1.0381 – 1.0831%
1,2,4-trimethylbenzene	CAS-No. 95-63-6	< 5.8707%

Clethodim (99129-21-2)

EPA TSCA Regulatory Flag	Exempt from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.
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Naphthalene (91-20-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

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

FIFRA Labelling

EPA Registration Number	66330-353
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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 Signal Word	Warning
FIFRA Human Health Hazards	Causes substantial but temporary eye irritation. Harmful if swallowed or inhaled. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.
FIFRA First Aid	Avoid contact with skin. Do not get in eyes, on clothing or on skin. Avoid breathing vapors or spray mist.
FIFRA 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 washwater 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: Solano Grass: Solano County, California: the vernal lakes area bounded by the Union Pacific

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FIFRA Labelling	
	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.
FIFRA Physical Hazard	Combustible. Do not use or store near heat or open flame.

15.2. International regulations

CANADA

Clethodim (99129-21-2)
Not listed on the Canadian DSL (Domestic Substances List) inventory.
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.

15.3. US State regulations

⚠ WARNING: This product can expose you to Naphthalene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Naphthalene(91-20-3)	X				5.8 µg/day	

Component	State or local regulations
Naphthalene(91-20-3)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances; U.S. - Pennsylvania - RTK (Right to Know) List
1,2,4-trimethylbenzene(95-63-6)	U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; 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

SECTION 16: Other information

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.

Other information : None.

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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H320	Causes eye irritation
H332	Harmful if inhaled.
H351	Suspected of causing cancer.

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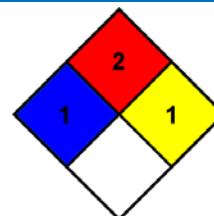
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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 Weighted Average

- NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
- NFPA fire hazard : 2 - Materials that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
- NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



SDS Prepared by: The Redstone Group
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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.