

SECTION 1: Identification

1.1. Identification

Product form	: Mixture
Product name	: SELECT® EC HERBICIDE
Synonyms	: Select EC / Shadow 2EC / Section 2EC
Other means of identification	: 22625 Pesticide Control Products Act (Canada) 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 Canada, Inc.
400 Michener Road, Unit 2
Guelph, Ontario N1K 1E4
T 1-866-761-9397
sds@arysta.com

Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513 - USA

1.4. Emergency telephone number

Emergency number	: FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA: 1-866-303-6952 or +1-651-603-3432 FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) call CHEMTREC: 1-800-424-9300 or +1-703-527-3887
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids, Category 4	H227
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2B	H320
Carcinogenicity, Category 2	H351
Specific target organ toxicity — Repeated exposure, Category 2	H373
Aspiration hazard, Category 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

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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
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-US 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 STOT RE 2, H373
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 soap and 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 or doctor/physician 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

SELECT® EC 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. 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 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.

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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)	: 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	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 0.96 g/ml @ 20 °C
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.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

SELECT® EC 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 US (oral)	2920 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 mg/kg bodyweight
ATE US (vapours)	3.9 mg/l/4h
ATE US (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 US (oral)	490 mg/kg bodyweight
ATE US (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 US (oral)	3415 mg/kg bodyweight
ATE US (dermal)	3440 mg/kg bodyweight
ATE US (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	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/effects after inhalation : Inhalation may cause: irritation, coughing, shortness of breath.

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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 Lepomis macrochirus (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 Oncornhynchus mykiss
EC50 Daphnia 1	>= 1.96 mg/l
EC50 other aquatic organisms 1	33 mg/l
LC50 fish 2	> 1 (1 - 6.5) mg/l Pimpephales promelas
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

Effect on the global warming : No known effects from this product.

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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Transportation of Dangerous Goods

Not regulated.

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

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.

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

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.

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

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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. - New Jersey - Right to Know Hazardous Substance List
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

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SECTION 16: Other information

Revision date : 05/10/2017

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.

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

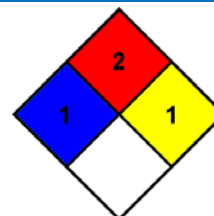
Abbreviations and acronyms:

	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.



Indication of changes:
General information.

SDS Prepared by: The Redstone Group, LLC.
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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