



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Product name : SUPREMACY® Herbicide
 Synonyms : ARY 0548-018
 Other means of identification : EPA Reg. No. 66330-406

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

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315
 Eye Irrit. 2A H319
 STOT RE 2 H373
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 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

Precautionary statements (GHS-US) :

P260 - Do not breathe dust
 P264 - Wash hands thoroughly after handling
 P273 - Avoid release to the environment
 P280 - Wear eye protection, protective clothing, protective gloves
 P302+P352 - If on skin: Wash with plenty of 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
 P314 - Get medical advice/attention if you feel unwell
 P321 - Specific treatment (see First aid measures on this label)
 P332+P313 - If skin irritation occurs: Get medical advice/attention
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P362 - Take off contaminated clothing and wash before reuse
 P391 - Collect spillage
 P501 - Dispose of contents/container in a safe manner in accordance with local/national regulations

2.3. Other hazards

No additional information available

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2.4. Unknown acute toxicity (GHS-US)

11.7 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

12.23 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

11.7 percent of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
fluroxypyr-meptyl (ISO) (Main constituent)	(CAS No) 81406-37-3	36	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Lignosulfonic acid, sodium salt	(CAS No) 8061-51-6	8.37 - 9.3	STOT RE 2, H373
Thifensulfuron methyl (Main constituent)	(CAS No) 79277-27-3	4.508	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tribenuron methyl (Main constituent)	(CAS No) 101200-48-0	1.5035	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
sodium carbonate monohydrate	(CAS No) 5968-11-6	1.5	Eye Irrit. 2A, H319
Docusate sodium USP	(CAS No) 577-11-7	0.52 - 0.695	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
sodium dibutylnaphthalenesulphonate	(CAS No) 25417-20-3	0.35 - 0.525	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Chronic 3, H412

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention. 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 : Immediately call a POISON CENTER or doctor/physician. If inhaled, remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- First-aid measures after skin contact : 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 : Give nothing or a little water to drink. Do NOT induce vomiting unless directed to do so by medical personnel. Call a physician immediately.

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

- Symptoms/injuries : May cause damage to organs.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.

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.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Burning produces irritating, toxic and noxious fumes.
- Explosion hazard : Product is not explosive.
- Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

- Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses. Dike and collect water used to fight the fire. Exercise caution when fighting any chemical fire.
- 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.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Avoid creating or spreading dust.

6.1.1. For non-emergency personnel

Protective equipment : Chemical goggles or safety glasses. Dust impervious gloves.

Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Chemical goggles or safety glasses. Dust impervious gloves.

Emergency procedures : Ventilate area. Stop leak if safe to do so.

6.2. Environmental precautions

Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers. Prevent dispersion. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Avoid generating dust. Sweep or shovel into suitable containers.

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

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

Precautions for safe handling : Avoid breathing dust.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Do not store near food, foodstuffs, drugs, or potable water supplies. Keep only in the original container in a cool well ventilated place. Protect from moisture. Store locked up.

Incompatible products : Acids. Bases. Oxidizer.

Prohibitions on mixed storage : Keep away from incompatible materials.

Storage area : Keep out of reach of children.

7.3. Specific end use(s)

Herbicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

fluroxypyr-meptyl (ISO) (81406-37-3)

ACGIH	Not applicable
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OSHA	Not applicable
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Thifensulfuron methyl (79277-27-3)

ACGIH	Not applicable
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OSHA	Not applicable
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Tribenuron methyl (101200-48-0)

ACGIH	Not applicable
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OSHA	Not applicable
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Lignosulfonic acid, sodium salt (8061-51-6)

ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (Inhalable particulates not otherwise specified); 3 mg/m ³ (Respirable particulates not otherwise specified)
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OSHA	Not applicable
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Docusate sodium USP (577-11-7)	
ACGIH	Not applicable
OSHA	Not applicable

sodium dibutylphthalenesulphonate (25417-20-3)	
ACGIH	Not applicable
OSHA	Not applicable

sodium carbonate monohydrate (5968-11-6)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. Exposure controls

Appropriate engineering controls	: Avoid dispersal of dust in the air (ie, clearing dust surfaces with compressed air). Provide ventilation if necessary.
Hand protection	: Wear suitable gloves resistant to chemical penetration. Wear dust impervious gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing. Long sleeved protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Use air-purifying respirator equipped with particulate filtering cartridges.
Consumer exposure controls	: Keep out of reach of children.
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	: Solid
Appearance	: granules.
Colour	: brown
Odour	: earthy
Odour threshold	: No data available
pH	: 6.36 (1% pH)
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.6735 g/ml
Solubility	: Water: Solubility in water of component(s) of the mixture : • fluroxypyr-meptyl (ISO): 0.09 mg/l • Thifensulfuron methyl: 23.6 g/l • Lignosulfonic acid, sodium salt: > 100 g/l
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Avoid creating or spreading dust. Heat. Moisture.

10.5. Incompatible materials

Acids. Bases. Oxidizer.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

SUPREMACY® Herbicide	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 2.07 mg/l/4h

fluroxypyr-meptyl (ISO) (81406-37-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Thifensulfuron methyl (79277-27-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Tribenuron methyl (101200-48-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Lignosulfonic acid, sodium salt (8061-51-6)	
LD50 oral rat	> 12000 mg/kg

sodium dibutylnaphthalenesulphonate (25417-20-3)	
ATE US (oral)	500.000 mg/kg bodyweight
ATE US (gases)	4500.000 ppmv/4h
ATE US (vapours)	11.000 mg/l/4h
ATE US (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified. (This product does not cause skin sensitization)
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
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	: Not classified
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.

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Likely routes of exposure : Skin and eye contact;Inhalation

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

fluroxypyr-meptyl (ISO) (81406-37-3)	
LC50 fishes 1	13.4 - 100 mg/l 96 h Rainbow trout
LC50 other aquatic organisms 1	> 100 mg/l 96h Onchorhynchus mykiss, Leuciscus idus
EC50 Daphnia 1	> 0.183 mg/l 48 h; > 100 mg/l 96-hr
LC50 fish 2	> 14.3 mg/l 96 h Blue gill sunfish
NOEC (chronic)	0.06 mg/l 21 day Daphnia magna
NOEC chronic fish	0.2 mg/l 21 day Onchorhynchus mykiss
Additional ecotoxicological information	solubility limit : > 0.9 mg/l

Thifensulfuron methyl (79277-27-3)	
LC50 fishes 1	> 100 mg/l 96 h Bluegill, Rainbow trout
EC50 Daphnia 1	470 mg/l 48 h
EC50 other aquatic organisms 1	0.0159 mg/l green algae

Tribenuron methyl (101200-48-0)	
LC50 fishes 1	> 1000 mg/l 96 h Bluegill, Rainbow trout
EC50 Daphnia 1	720 mg/l 48 h
EC50 other aquatic organisms 1	0.011 mg/l 71 h

Lignosulfonic acid, sodium salt (8061-51-6)	
LC50 fishes 1	361 ppm 96h Pimephales promelas

12.2. Persistence and degradability

fluroxypyr-meptyl (ISO) (81406-37-3)	
Persistence and degradability	Not expected to persist.

Lignosulfonic acid, sodium salt (8061-51-6)	
Persistence and degradability	Biodegrades slowly.
Biochemical oxygen demand (BOD)	0.021 g O ₂ /g substance (5 day/day); 0.043 g O ₂ /g (30 day/days)

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

fluroxypyr-meptyl (ISO) (81406-37-3)	
Ecology - soil	Slightly mobile in soil.

Thifensulfuron methyl (79277-27-3)	
Log Koc	13 - 55 Koc

12.5. Other adverse effects

Effect on ozone layer : None known

Effect on the global warming : None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of in authorized waste collection plant.

Sewage disposal recommendations : Do not dispose of waste into sewer.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT

Not considered a dangerous good for transport regulations

Additional information

Other information : No supplementary information available.

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ADR	
Transport document description	: UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fluroxypyr-meptyl (ISO), thifensulfuron-methyl), 9, III, (E)
Packing group (ADR)	: III
Class (ADR)	: 9 - Miscellaneous dangerous substances and articles
Hazard identification number (Kemler No.)	: 90
Classification code (ADR)	: M7
Danger labels (ADR)	: 9 - Miscellaneous dangerous substances and articles



Orange plates	:
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Tunnel restriction code (ADR)	: E
LQ	: 5kg
Excepted quantities (ADR)	: E1

Transport by sea

UN-No. (IMDG)	: 3077
Proper Shipping Name (IMDG)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fluroxypyr-meptyl (ISO), thifensulfuron-methyl)
Class (IMDG)	: 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG)	: III - substances presenting low danger
Marine pollutant	: Yes



Air transport

UN-No.(IATA)	: 3077
Proper Shipping Name (IATA)	: Environmentally hazardous substance, solid, n.o.s. (fluroxypyr-meptyl (ISO), thifensulfuron-methyl)
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

fluroxypyr-meptyl (ISO) (81406-37-3)

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

Thifensulfuron methyl (79277-27-3)

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

Tribenuron methyl (101200-48-0)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313

Lignosulfonic acid, sodium salt (8061-51-6)

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

EPA TSCA Regulatory Flag

XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

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sodium dibutylphthalenesulphonate (25417-20-3)

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

sodium carbonate monohydrate (5968-11-6)

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

15.2. International regulations

CANADA

SUPREMACY® Herbicide

WHMIS Classification

Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

fluroxypyr-meptyl (ISO) (81406-37-3)

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

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

Thifensulfuron methyl (79277-27-3)

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

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

Tribenuron methyl (101200-48-0)

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

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

Lignosulfonic acid, sodium salt (8061-51-6)

Listed on the Canadian DSL (Domestic Substances List) inventory.

sodium dibutylphthalenesulphonate (25417-20-3)

Listed on the Canadian DSL (Domestic Substances List) inventory.

sodium carbonate monohydrate (5968-11-6)

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

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

EU-Regulations

fluroxypyr-meptyl (ISO) (81406-37-3)

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

Thifensulfuron methyl (79277-27-3)

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

Tribenuron methyl (101200-48-0)

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

Lignosulfonic acid, sodium salt (8061-51-6)

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

sodium dibutylphthalenesulphonate (25417-20-3)

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

sodium carbonate monohydrate (5968-11-6)

Not 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

Eye Irrit. 2 H319

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R36/38

N; R50/53

15.2.2. National regulations

No additional information available

15.3. US State regulations

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Tribenuron methyl (101200-48-0)

U.S. - New Jersey - Right to Know Hazardous Substance 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.

Signal word (FIFRA)	: WARNING
Hazard statements (FIFRA)	: HAZARDS TO HUMANS AND DOMESTIC ANIMALS Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin. Do not get in eyes or on clothing. Wear goggles or face shield. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse. Avoid contact with skin.
Environmental hazards	: This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift or runoff from treated areas as this product may be hazardous to aquatic organisms and non-target plants. Do not contaminate water when disposing of equipment wash waters or rinsate. Do not allow sprays or drift onto adjacent desirable plants.
Physical or Chemical hazards	: Do not use or store near heat or open flame.

SECTION 16: Other information

Indication of changes	: GHS classification information. Revised sections: 1 - 16.
Revision date	: 01/28/2015
Data sources	: ACGIH 2000. 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. OSHA 29CFR 1910.1200 Hazard Communication Standard. TSCA Chemical Substance Inventory. Accessed at http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html .
Abbreviations and acronyms	: ACGIH (American Conference of Government Industrial Hygienists). ATE: Acute Toxicity Estimate. CAS (Chemical Abstracts Service) number. CLP: Classification, Labelling, Packaging. 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. TSCA: Toxic Substances Control Act.
Other information	: None.

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Full text of H-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
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
H412	Harmful to aquatic life with long lasting effects

NFPA health hazard

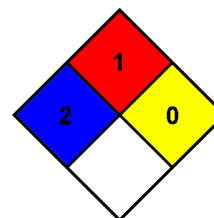
: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard

: 1 - Must be preheated before ignition can occur.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and not reactive with water.



SDS US (GHS HazCom 2012)

SDS Prepared by:

The Redstone Group, LLC.
6397 Emerald Pkwy
Suite 200
Dublin, Ohio, USA 43016
614.923.7472
www.redstonegrp.com

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