



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

1.1. Product identifier

Product form : Mixture
 Product name. : SHADOW[®] 3EC HERBICIDE
 Other means of identification : EPA Registration Number : 66330-414

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 (international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

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

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS08

Signal word (GHS-US) :

Danger.

Hazard statements (GHS-US) :

H227 - Combustible liquid
 H304 - May be fatal if swallowed and enters airways
 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/hot surfaces. - No smoking
 P260 - Do not breathe mist/vapours/spray
 P264 - Wash hands thoroughly after handling
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
 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 and attention if you feel unwell
 P331 - If swallowed, do NOT induce vomiting
 P337+P313 - If eye irritation persists: Get medical advice/attention
 P370+P378 - In case of fire: Use carbon dioxide, dry powder, foam, or water fog for extinction
 P403+P235 - Store in a cool and well-ventilated place
 P405 - Store locked up
 P501 - Dispose of contents/container in accordance with local and national regulations

2.3. Other hazards

No additional information available

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2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Exact concentrations withheld as trade secret.

Full text of H-phrases: see section 16

| Name | Product identifier | % | GHS-US classification |
|-----------------------------------|-----------------------|---------|--|
| Heavy Aromatic Naptha Solvent | (CAS No) 64742-94-5 | 50 – 60 | Flam. Liq. 4, H227 Asp. Tox. 1, H304 |
| Clethodim | (CAS No) 99129-21-2 | 30 – 40 | 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 | 1 – 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 – 5 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 |
| naphthalene | (CAS No) 91-20-3 | 0.1 – 2 | Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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. Call a POISON CENTER/doctor/physician if you feel unwell. |
| 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 contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist. |
| First-aid measures after ingestion | : Do NOT induce vomiting unless directed to do so by medical personnel. Immediately call a POISON CENTER or doctor/physician. |

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

| | |
|--------------------------------------|--|
| Symptoms/injuries | : Causes damage to organs. Suspected of causing cancer. |
| Symptoms/injuries after inhalation | : Inhalation may cause: irritation, coughing, shortness of breath. |
| Symptoms/injuries after skin contact | : May cause moderate 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. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |
| Reactivity | : Liquid evaporates and forms vapors/fumes that can catch fire and burn with explosive violence. |

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5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Wear fire/flame resistant/retardant clothing. Wear a self contained breathing apparatus.

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 naked lights. No smoking. Avoid all eyes and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable gloves. rubber. Chemical goggles or safety glasses.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Wear suitable gloves. rubber. Chemical goggles or safety glasses.
- Emergency procedures : Stop leak if safe to do so. Ventilate area.

6.2. Environmental precautions

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 : 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/sparks/open flames/hot surfaces. - No smoking.
- Precautions for safe handling : No naked lights. No smoking. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist/vapours/spray.
- 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 products : strong oxidizers. Strong acids. Strong bases.
- Incompatible materials : Heat sources.

7.3. Specific end use(s)

Herbicide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Heavy Aromatic Naptha Solvent (64742-94-5) | | |
|--|-------------------------------------|----------------------|
| USA ACGIH | ACGIH STEL (mg/m ³) | 10 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |
| naphthalene (91-20-3) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 52 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 10 ppm |
| USA ACGIH | ACGIH STEL (mg/m ³) | 79 mg/m ³ |
| USA ACGIH | ACGIH STEL (ppm) | 15 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 50 mg/m ³ |

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| naphthalene (91-20-3) | | |
|--|--------------------------------|-----------------------|
| USA OSHA | OSHA PEL (TWA) (ppm) | 10 ppm |
| 1,2,4-trimethylbenzene (95-63-6) | | |
| USA ACGIH | ACGIH TWA (mg/m ³) | 123 mg/m ³ |
| USA ACGIH | ACGIH TWA (ppm) | 25 ppm |
| Clethodim (99129-21-2) | | |
| None established. | | |
| Anionic/nonionic surfactant blend (trade secret) | | |
| None established. | | |

8.2. Exposure controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | : Avoid creating mist or spray. Avoid splashing. Either local exhaust or general room ventilation is usually required. |
| Hand protection | : Wear suitable gloves resistant to chemical penetration. Nitrile rubber gloves. |
| Eye protection | : In case of splashing or aerosol production: protective goggles. |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Use an approved respirator equipped with oil/mist cartridges. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : Liquid |
| Colour | : Amber |
| Odour | : Aromatic |
| Odour threshold | : No data available |
| pH | : 3.96 @ 25 °C |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : 61 °C Closed Cup |
| Self 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 | : 0.98 g/ml @ 20°C |
| Density | : 0.98 g/ml @ 20°C |
| Solubility | : insoluble in water. Soluble in hydrocarbon solvents. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity | : 20 cP @ 25°C |
| Viscosity, kinematic | : 20.408 cSt (calculated) |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : No oxidizing properties. |
| Explosive limits | : No data available |

9.2. Other information

| | |
|-------------|-------|
| VOC content | : 0 % |
|-------------|-------|

SECTION 10: Stability and reactivity

10.1. Reactivity

Liquid evaporates and forms vapors/fumes that can catch fire and burn with explosive violence.

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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 acids. Strong oxidizers. Strong bases.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| SHADOW [®] 3EC HERBICIDE | |
|-----------------------------------|---|
| LD50 oral rat | > 3129 mg/kg |
| LD50 dermal rabbit | > 5050 mg/kg No mortality occurred during the study |
| LC50 inhalation rat (mg/l) | > 2.23 mg/l/4h No mortality occurred during the study |

| 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 | > 5 g/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 (oral) | 1360.000 mg/kg bodyweight |
| ATE (vapours) | 3.900 mg/l/4h |
| ATE (dust,mist) | 3.900 mg/l/4h |

| Heavy Aromatic Naptha 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) | 490.000 mg/kg bodyweight |
| ATE (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 (oral) | 3415.000 mg/kg bodyweight |
| ATE (dermal) | 3440.000 mg/kg bodyweight |
| ATE (dust,mist) | 1.500 mg/l/4h |

Skin corrosion/irritation : Not classified.

pH: 4 (1% emulsion)

A primary dermal irritation study was conducted on three albino rabbits. Slight was noticed upon initial observation, all effects were reversed by 72 hours. Maximum irritation score of 0.75. May be slightly irritating, but not sufficient for classification.

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| | |
|--|--|
| Serious eye damage/irritation | : Causes eye irritation. pH: 4 (1% emulsion) An acute eye irritation study was conducted on three albino rabbits. Cornea Opacity was seen in up to two animals at intervals of 1, 24, 48, and 72 hours. Iritis was seen in one animal at all time intervals. Conjunctivae Redness and chemosis were seen initially in all animals. All effects seen were completely reversed by Day 4. |
| Respiratory or skin sensitisation | : Not classified Produced no skin irritation and did not elicit a skin sensitizing reaction in guinea pigs. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Suspected of causing cancer. |
| 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 | : May cause moderate 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 fishes 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 fishes 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>Pimpephales 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 fishes 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 Naptha 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 Naptha Solvent (64742-94-5) | |
|---|-------------------|
| Mobility in soil | Migrates to soil. |

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.

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Additional information : Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with 49CFR US DOT (Land)

Non-bulk (≤ 119 gallons) : Not regulated
Bulk (>119 but <624 gallons) : NA1993 Combustible liquid, n.o.s. (Heavy aromatic naphtha solvent), 3, III
RQ Bulk (≥624 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.

ADR

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

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.
Exempt under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

naphthalene (91-20-3)

| | |
|-------------------------------------|--|
| 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

SHADOW[®] 3EC HERBICIDE

| | |
|----------------------|--|
| WHMIS Classification | Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR |
|----------------------|--|

Clethodim (99129-21-2)

Not 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) substances.

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

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

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

Carc. 2 H351
STOT RE 2 H373
Asp. Tox. 1 H304
Aquatic Chronic 3 H412

Full text of H-phrases: see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R20
Xn; R65
R52/53

15.2.2. National regulations

No additional information available

15.3. US State regulations

Not listed on any state Right-to-Know Hazardous Chemicals lists.

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) | : Caution. |
| Hazard statements (FIFRA) | : Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Avoid contact with eyes or clothing. Wear protective eyewear, long-sleeved shirt and long pants, socks, shoes and chemical resistant gloves (such as Barrier Laminate, Butyl Rubber, Nitrile Rubber, Viton, Selection Category F, G). |
| 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 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 store near heat or open flame. |

SECTION 16: Other information

| | |
|----------------------------|--|
| Indication of changes | : Original Document. |
| 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. EC50: Environmental Concentration associated with a response by 50% of the test population. GHS: Globally Harmonized System (of Classification and Labeling of Chemicals). 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-phrases: see section 16:

Acute Tox. 4 (Inhalation)

Acute toxicity (inhalation) Category 4

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| | |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) 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 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 2 | Carcinogenicity Category 2 |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| Skin Irrit. Not classified | Skin corrosion/irritation Not classified |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
| 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

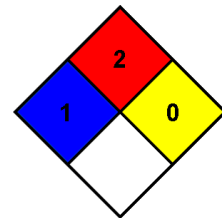
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

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

NFPA reactivity

: 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.