# SAFETY DATA SHEET SPARTAN® 4 F HERBICIDE

SDS # : 1466-1-A Revision date: 2020-07-21 Format: NA Version 1.02



# **1. PRODUCT AND COMPANY IDENTIFICATION**

| Product Identifier             |                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name                   | SPARTAN® 4 F HERBICIDE                                                                                                                                                                                                                                                                                    |
| Formula code                   | 6527-A                                                                                                                                                                                                                                                                                                    |
| Other means of identification  |                                                                                                                                                                                                                                                                                                           |
| Product Code(s)                | 1466-1-A                                                                                                                                                                                                                                                                                                  |
| Synonyms                       | SULFENTRAZONE (FMC 97285):<br>2',4'-dichloro-5'-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl)<br>methanesulfonanilide (IUPAC name);<br>N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-<br>1,2,4-triazol-1-yl]phenyl] methanesulfonamide (CAS name)             |
| Active Ingredient(s)           | Sulfentrazone,                                                                                                                                                                                                                                                                                            |
| Chemical Family                | Triazolinones                                                                                                                                                                                                                                                                                             |
| Recommended use of the chemica | and restrictions on use                                                                                                                                                                                                                                                                                   |
| Recommended Use:               | Herbicide                                                                                                                                                                                                                                                                                                 |
| Restrictions on Use:           | Use as recommended by the label.                                                                                                                                                                                                                                                                          |
| Supplier Address               | FMC Corporation<br>2929 Walnut Street<br>Philadelphia, PA 19104<br>(215) 299-6000 (General Information)<br>SDS-Info@fmc.com (E-Mail General Information)                                                                                                                                                  |
| Emergency telephone number     |                                                                                                                                                                                                                                                                                                           |
|                                | Medical Emergencies :<br>1 800 / 331-3148 (U.S.A. & Canada)<br>1 651 / 632-6793 (All Other Countries - Collect)<br>For leak, fire, spill or accident emergencies, call:<br>1 800 / 424-9300 (CHEMTREC - U.S.A.)<br>1 703 / 741-5970 (CHEMTREC - International)<br>1 703 / 527-3887 (CHEMTREC - Alternate) |

# 2. HAZARDS IDENTIFICATION

**Classification** 

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Specific target organ toxicity (repeated exposure)

Category 2

### GHS Label elements, including precautionary statements

# **EMERGENCY OVERVIEW**

Warning

# Hazard Statements

H373 - May cause damage to organs through prolonged or repeated exposure



### Precautionary Statements - Prevention P260 - Do not breathe dust/fume/gas/mist/vapors/spray

### Precautionary Statements - Response

P314 - Get medical advice/ attention if you feel unwell

# **Precautionary Statements - Disposal**

P501 - Dispose of contents/container according to label directions

### Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

### Other Information

Very toxic to aquatic life.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Family** 

## Triazolinones.

| Chemical name                                     | CAS-No      | Weight % |
|---------------------------------------------------|-------------|----------|
| Sulfentrazone                                     | 122836-35-5 | 40       |
| Propylene glycol                                  | 57-55-6     | 5-10     |
| Oxirane, methyl-, polymer with oxirane, monobutyl | 9038-95-3   | 1-5      |
| ester                                             |             |          |
| Toluene                                           | 108-88-3    | 1-5      |

Synonyms are provided in Section 1.

# **4. FIRST AID MEASURES**

**Eye Contact** 

Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for further treatment advice.

# **SPARTAN® 4 F HERBICIDE**

#### Revision date: 2020-07-21 Version 1.02 **Skin Contact** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice. Inhalation Move to fresh air. If person is not breathing, contact emergency medical services, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. Ingestion Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. Most important symptoms and Central nervous system effects. effects, both acute and delayed Indication of immediate medical Treat symptomatically. attention and special treatment needed, if necessary

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# 5. FIRE-FIGHTING MEASURES

| Suitable Extinguishing Media                                                                 | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Small Fire                                                                                   | Dry chemical. Carbon dioxide (CO2).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Large Fire                                                                                   | Water spray. Foam.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Unsuitable extinguishing media                                                               | Avoid heavy hose streams.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| Specific Hazards Arising from the<br>Chemical                                                | Thermal decomposition can lead to release of irritating and toxic gases and vapors.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Hazardous Combustion Products                                                                | See Section 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| <u>Explosion data</u><br>Sensitivity to Mechanical Impact<br>Sensitivity to Static Discharge | No information available.<br>No information available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Protective equipment and<br>precautions for firefighters                                     | As in any fire, wear self-contained breathing apparatus and full protective gear.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|                                                                                              | 6. ACCIDENTAL RELEASE MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| Personal Precautions                                                                         | Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Personal Precautions<br>Other                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|                                                                                              | gloves and eye/face protection. For personal protection see section 8.<br>For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
| Other                                                                                        | <ul> <li>gloves and eye/face protection. For personal protection see section 8.</li> <li>For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1<br/>"Product and Company Identification" above.</li> <li>Keep people and animals away from and upwind of spill/leak. Keep material out of lakes,</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| Other<br>Environmental Precautions                                                           | <ul> <li>gloves and eye/face protection. For personal protection see section 8.</li> <li>For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.</li> <li>Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.</li> <li>Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and</li> </ul>                                                                                                                                                                                                                                                                                                           |  |
| Other<br>Environmental Precautions<br>Methods for Containment                                | <ul> <li>gloves and eye/face protection. For personal protection see section 8.</li> <li>For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.</li> <li>Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.</li> <li>Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.</li> <li>Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior</li> </ul>                                                                        |  |
| Other<br>Environmental Precautions<br>Methods for Containment                                | <ul> <li>gloves and eye/face protection. For personal protection see section 8.</li> <li>For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.</li> <li>Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.</li> <li>Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.</li> <li>Clean and neutralize spill area, tools and equipment by washing with water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.</li> </ul> |  |

and sources of ignition. Keep out of reach of children and animals. Store in original container.

Packaging material Must only be kept in original packaging.

Incompatible products None known

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| Chemical name    | ACGIH TLV        | OSHA PEL                   | NIOSH                       | Mexico                     |
|------------------|------------------|----------------------------|-----------------------------|----------------------------|
| Toluene          | TWA: 20 ppm      | TWA: 200 ppm               | IDLH: 500 ppm               | Mexico: TWA 20 ppm         |
| (108-88-3)       |                  | Ceiling: 300 ppm           | TWA: 100 ppm                |                            |
|                  |                  |                            | TWA: 375 mg/m <sup>3</sup>  |                            |
|                  |                  |                            | STEL: 150 ppm               |                            |
|                  |                  |                            | STEL: 560 mg/m <sup>3</sup> |                            |
| Chemical name    | British Columbia | Quebec                     | Ontario TWAEV               | Alberta                    |
| Propylene glycol | -                | -                          | TWA: 10 mg/m <sup>3</sup>   | -                          |
| (57-55-6)        |                  |                            | aerosol only                |                            |
|                  |                  |                            |                             |                            |
|                  |                  |                            | TWA: 50 ppm                 |                            |
|                  |                  |                            | aerosol and vapor           |                            |
|                  |                  |                            | TWA: 155 mg/m <sup>3</sup>  |                            |
|                  |                  |                            | aerosol and vapor           |                            |
|                  |                  |                            |                             |                            |
| Toluene          | TWA: 20 ppm      | TWA: 50 ppm                | TWA: 20 ppm                 | TWA: 50 ppm                |
| (108-88-3)       |                  | TWA: 188 mg/m <sup>3</sup> |                             | TWA: 188 mg/m <sup>3</sup> |
|                  |                  | Skin                       |                             | Skin                       |

## Appropriate engineering controls

**Engineering measures** Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

### Individual protection measures, such as personal protective equipment

| Eye/Face Protection      | For dust, splash, mist or spray exposure, wear chemical protective goggles.                                                                                                                                                                                                                                       |  |  |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Skin and Body Protection | Wear long-sleeved shirt, long pants, socks, and shoes.                                                                                                                                                                                                                                                            |  |  |
| Hand Protection          | Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.                                                                                                                                             |  |  |
| Respiratory Protection   | For dust, splash, mist or spray exposures, wear a filtering mask.                                                                                                                                                                                                                                                 |  |  |
| Hygiene measures         | Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry. |  |  |
| General information      | If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied                                                                                                                                     |  |  |

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

### **SPARTAN® 4 F HERBICIDE**

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| Appearance<br>Physical State | Off-white Liquid<br>Liquid        |
|------------------------------|-----------------------------------|
| Color                        | Off-white                         |
| Odor                         | Low Alcohol                       |
| Odor threshold               | No information available          |
| pH                           | 5.3-6.0 @ 20°C                    |
| Melting point/freezing point | 123 °C                            |
| Boiling Point/Range          | No information available          |
| Flash point                  | > 94 °C / > 201 °F Tag Closed Cup |
| Evaporation Rate             | No information available          |
| Flammability (solid, gas)    | No information available          |
| Flammability Limit in Air    |                                   |
| Upper flammability limit:    | No information available          |
| Lower flammability limit:    | No information available          |
| Vapor pressure               | 1 x 10-9 mm Hg at 25°C            |
| Vapor density                | No information available          |
| Relative density             | 10.07 lb/gal                      |
| Specific gravity             | 1.206 @ 20 °C (water = 1)         |
| Water solubility             | Soluble in water                  |
| Solubility in other solvents | No information available          |
| Partition coefficient        | No information available          |
| Autoignition temperature     | No information available          |
| Decomposition temperature    | No information available          |
| Viscosity, kinematic         | No information available          |
| Viscosity, dynamic           | No information available          |
| Explosive properties         | No information available          |
| Oxidizing properties         | No data available                 |
| Molecular weight             | No information available          |
| Bulk density                 | No information available          |

# **10. STABILITY AND REACTIVITY**

| Reactivity                         | None under normal use conditions.        |
|------------------------------------|------------------------------------------|
| Chemical Stability                 | Stable.                                  |
| Possibility of Hazardous Reactions | None under normal processing.            |
| Hazardous polymerization           | Hazardous polymerization does not occur. |
| Conditions to avoid                | Excessive heat                           |
| Incompatible materials             | None known.                              |

Hazardous Decomposition Products Carbon oxides (COx), Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride, Hydrogen fluoride.

# **11. TOXICOLOGICAL INFORMATION**

# Product Information

| LD50 Oral                         | 2084 mg/kg (rat)                                                           |
|-----------------------------------|----------------------------------------------------------------------------|
| LD50 Dermal                       | > 2000 mg/kg (rabbit)                                                      |
| LC50 Inhalation (dust)            | > 2.72 mg/L 4 hr (rat) - Maximum attainable concentration (zero mortality) |
| Serious eye damage/eye irritation | Rabbit: Non-irritating.                                                    |
| Skin corrosion/irritation         | Rabbit: Slightly irritating.                                               |
| Sensitization                     | Did not cause sensitization on laboratory animals.                         |

| Chemical name                  | LD50 Oral         | LD50 Dermal                | LC50 Inhalation (vapor)           |
|--------------------------------|-------------------|----------------------------|-----------------------------------|
| Propylene glycol               | 20000 mg/kg (Rat) | 20800 mg/kg (Rabbit)       |                                   |
| (57-55-6)                      |                   |                            |                                   |
| Oxirane, methyl-, polymer with | 2500 g/kg (Rat)   | = 14100 µL/kg (Rabbit)> 20 | = 147 mg/m <sup>3</sup> (Rat) 4 h |

| oxirane, monobutyl ester<br>(9038-95-3) |                    | mL/kg (Rabbit)         |                      |
|-----------------------------------------|--------------------|------------------------|----------------------|
| Toluene<br>(108-88-3)                   | = 2600 mg/kg (Rat) | = 12000 mg/kg (Rabbit) | = 12.5 mg/L (Rat)4 h |

# Information on toxicological effects

| Symptoms                                                                   | No information available.                                                                                                                                                                          |
|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Delayed and immediate effects as                                           | well as chronic effects from short and long-term exposure                                                                                                                                          |
| Mutagenicity                                                               | Sulfentrazone: Not genotoxic in animal studies                                                                                                                                                     |
| Carcinogenicity                                                            | Sulfentrazone: No evidence of carcinogenicity from animal studies                                                                                                                                  |
| Neurological effects                                                       | Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high dose levels.                                                                                             |
| Reproductive toxicity                                                      | Sulfentrazone: No toxicity to reproduction in animal studies.                                                                                                                                      |
| STOT - single exposure<br>STOT - repeated exposure<br>Neurological effects | Not classified.<br>May cause damage to organs through prolonged or repeated exposure.<br>Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high<br>dose levels. |
| Aspiration hazard                                                          | No information available.                                                                                                                                                                          |

| Chemical name | ACGIH | IARC    | NTP | OSHA |
|---------------|-------|---------|-----|------|
| Toluene       |       | Group 3 |     |      |
| 108-88-3      |       |         |     |      |

### Legend:

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

| Sulfentrazone (122836-35-5) |             |                                    |        |       |
|-----------------------------|-------------|------------------------------------|--------|-------|
| Active Ingredient(s)        | Duration    | Species                            | Value  | Units |
|                             | 96 h LC50   | Onchorhyncus mykiss                | > 120  | mg/L  |
|                             | 99 d NOAEC  | Onchorhyncus mykiss                | 2.95   | mg/L  |
|                             | 48 h EC50   | Daphnia magna                      | 60.4   | mg/L  |
|                             | 21 d NOAEC  | Daphnia magna                      | 0.2    | mg/L  |
|                             | 120 h EC50  | Pseudokirchneriella<br>subcapitata | 0.031  | mg/L  |
|                             | 120 h EC50  | Navivula pelliculosa               | 0.042  | mg/L  |
|                             | 14-day EC50 | Lemna gibba<br>(duckweed)          | 0.0288 | mg/L  |
|                             | 14-d NOAEL  | Lemna gibba<br>(duckweed)          | 0.019  | mg/L  |

| Chemical name | Toxicity to algae                                                                                      | Toxicity to fish                                                                                                                                                                                                            | Toxicity to daphnia and other<br>aquatic invertebrates           |
|---------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Toluene       | 72 h EC50: = 12.5 mg/L                                                                                 | 96 h LC50: 11.0 - 15.0 mg/L                                                                                                                                                                                                 | 48 h EC50: 5.46 - 9.83 mg/L                                      |
| 108-88-3      | (Pseudokirchneriella subcapitata)<br>static 96 h EC50: > 433 mg/L<br>(Pseudokirchneriella subcapitata) | (Lepomis macrochirus) static 96 h<br>LC50: 14.1 - 17.16 mg/L<br>(Oncorhynchus mykiss) static 96 h<br>LC50: 15.22 - 19.05 mg/L<br>(Pimephales promelas) flow-through<br>96 h LC50: 5.89 - 7.81 mg/L<br>(Oncorhynchus mykiss) | (Daphnia magna) Static 48 h EC50:<br>= 11.5 mg/L (Daphnia magna) |

### **SDS #**: 1466-1-A **Revision date**: 2020-07-21 Version 102

|                                      |                                                                                                                            |                                                                                                                                                                       | Revision date: 2020-07-21<br>Version 1.02                      |  |  |  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--|--|--|
| [                                    |                                                                                                                            | flow through 06 h I CEO, 50.97                                                                                                                                        |                                                                |  |  |  |
|                                      |                                                                                                                            | flow-through 96 h LC50: 50.87 -<br>70.34 mg/L (Poecilia reticulata)                                                                                                   |                                                                |  |  |  |
|                                      |                                                                                                                            | static 96 h LC50: = 12.6 mg/L                                                                                                                                         |                                                                |  |  |  |
|                                      |                                                                                                                            | (Pimephales promelas) static 96 h                                                                                                                                     |                                                                |  |  |  |
|                                      |                                                                                                                            | LC50: = 28.2 mg/L (Poecilia                                                                                                                                           |                                                                |  |  |  |
|                                      |                                                                                                                            | reticulata) semi-static 96 h LC50: =                                                                                                                                  |                                                                |  |  |  |
|                                      |                                                                                                                            | 5.8 mg/L (Oncorhynchus mykiss)                                                                                                                                        |                                                                |  |  |  |
|                                      |                                                                                                                            | semi-static 96 h LC50: = 54 mg/L                                                                                                                                      |                                                                |  |  |  |
|                                      |                                                                                                                            | (Oryzias latipes) static                                                                                                                                              |                                                                |  |  |  |
| Sulfentrazone<br>122836-35-5         | 32.6                                                                                                                       | 94 mg/L&5.9                                                                                                                                                           | 60.4 mg/L&0.51                                                 |  |  |  |
| Sodium Hydroxide<br>1310-73-2        |                                                                                                                            | 96 h LC50: = 45.4 mg/L<br>(Oncorhynchus mykiss) static                                                                                                                |                                                                |  |  |  |
| Polyethylene glycol<br>25322-68-3    |                                                                                                                            | 24 h LC50: > 5000 mg/L (Carassius auratus)                                                                                                                            |                                                                |  |  |  |
| Cyclomethicone                       |                                                                                                                            | 96 h LC50: > 1000 mg/L (Lepomis                                                                                                                                       | 24 h EC50: = 25.2 mg/L (Daphnia                                |  |  |  |
| 556-67-2                             |                                                                                                                            | macrochirus) 96 h LC50: > 500                                                                                                                                         | magna)                                                         |  |  |  |
|                                      |                                                                                                                            | mg/L (Brachydanio rerio)                                                                                                                                              |                                                                |  |  |  |
| Nonylphenol ethoxylate               |                                                                                                                            | 96 h LC50: = 0.323 mg/L                                                                                                                                               |                                                                |  |  |  |
| 68412-54-4                           |                                                                                                                            | (Pimephales promelas) flow-through                                                                                                                                    |                                                                |  |  |  |
| Persistence and degradability        | Sulfentrazone: Persist                                                                                                     | tent, Does not readily hydrolyze, Not                                                                                                                                 | readily biodegradable.                                         |  |  |  |
| Bioaccumulation                      | Sulfentrazone: The su                                                                                                      | ubstance does not have a potential for                                                                                                                                | r bioconcentration.                                            |  |  |  |
| Mobility                             |                                                                                                                            | , Has potential to reach ground water                                                                                                                                 |                                                                |  |  |  |
|                                      |                                                                                                                            |                                                                                                                                                                       |                                                                |  |  |  |
|                                      | 13. DISPOSAL                                                                                                               | _ CONSIDERATIONS                                                                                                                                                      |                                                                |  |  |  |
| Waste disposal methods               | wastes cannot be disp<br>disposal authorities fo                                                                           | excess pesticide, spray mixture, or rin<br>bosed of by use according to label ins<br>ir guidance. Proper personal protectiv<br>st be worn while handling materials fo | tructions, contact appropriate<br>e equipment, as described in |  |  |  |
| Contaminated containers and packages |                                                                                                                            | isposed of in accordance with local, s<br>abel for container disposal instructions                                                                                    |                                                                |  |  |  |
|                                      | 14. TRANSPO                                                                                                                | ORT INFORMATION                                                                                                                                                       |                                                                |  |  |  |
| DOT                                  | This material is not a                                                                                                     | hazardous material as defined by US                                                                                                                                   | Construct of Transportation                                    |  |  |  |
|                                      | This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185. |                                                                                                                                                                       |                                                                |  |  |  |
| TDG                                  | Classification below is<br>shipped by road or rai                                                                          | s only applicable when shipped by ves<br>il only.                                                                                                                     | ssel and is not applicable when                                |  |  |  |
| UN/ID no<br>Proper Shipping Name     |                                                                                                                            | rdous substance, liquid, n.o.s.(sulfent                                                                                                                               | razone)                                                        |  |  |  |
| Hazard class<br>Packing Group        | 9<br>III                                                                                                                   |                                                                                                                                                                       |                                                                |  |  |  |
| Marine Pollutant                     | Sulfentrazone.                                                                                                             |                                                                                                                                                                       |                                                                |  |  |  |
| Description                          |                                                                                                                            | tally hazardous substance, liquid, n.o                                                                                                                                | s (sulfentrazone) 9 PGIII                                      |  |  |  |
| Description                          | Marine pollutant                                                                                                           |                                                                                                                                                                       |                                                                |  |  |  |
|                                      |                                                                                                                            |                                                                                                                                                                       |                                                                |  |  |  |
| ICAO/IATA                            |                                                                                                                            |                                                                                                                                                                       |                                                                |  |  |  |
| UN/ID no                             | UN3082                                                                                                                     |                                                                                                                                                                       |                                                                |  |  |  |
| Proper Shipping Name                 | Environmentally haza                                                                                                       | rdous substance, liquid, n.o.s.(sulfent                                                                                                                               | trazone)                                                       |  |  |  |
| Hazard class                         | 9                                                                                                                          |                                                                                                                                                                       |                                                                |  |  |  |
| Packing Group                        | Ĩ                                                                                                                          |                                                                                                                                                                       |                                                                |  |  |  |
| Description                          |                                                                                                                            | tally hazardous substance, liquid, n.o                                                                                                                                | .s. (sulfentrazone), 9, PGIII,                                 |  |  |  |
| IMDG/IMO                             | ·                                                                                                                          |                                                                                                                                                                       |                                                                |  |  |  |
| UN/ID no                             | UN3082                                                                                                                     |                                                                                                                                                                       |                                                                |  |  |  |
| Proper Shipping Name                 | Environmentally haza                                                                                                       | rdous substance, liquid, n.o.s.(sulfent                                                                                                                               | trazone)                                                       |  |  |  |
|                                      |                                                                                                                            | ige 7/10                                                                                                                                                              |                                                                |  |  |  |

| Hazard class          | 9                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------|
| Packing Group         | 111                                                                                                     |
| EmS No.               | F-A, S-F                                                                                                |
| Environmental Hazards | Sulfentrazone                                                                                           |
| Description           | UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, PGIII, Marine pollutant |

# **15. REGULATORY INFORMATION**

# U.S. Federal Regulations

### <u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name                  | CAS-No   | Weight % | SARA 313 - Threshold<br>Values % |
|--------------------------------|----------|----------|----------------------------------|
| Toluene - 108-88-3             | 108-88-3 | 1-5      | 1.0                              |
| SARA 211/212 Hazard Categorias |          |          |                                  |

### SARA 311/312 Hazard Categories

| Acute health hazard               | Yes |
|-----------------------------------|-----|
| Chronic health hazard             | Yes |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical name                 | CWA - Reportable<br>Quantities | CWA - Toxic Pollutants | CWA - Priority<br>Pollutants | CWA - Hazardous<br>Substances |
|-------------------------------|--------------------------------|------------------------|------------------------------|-------------------------------|
| Sodium Hydroxide<br>1310-73-2 | 1000 lb                        |                        |                              | X                             |
| Toluene<br>108-88-3           | 1000 lb                        | X                      | Х                            | X                             |

### **CERCLA**

| Chemical name    | Hazardous Substances RQs | Extremely Hazardous Substances<br>RQs |
|------------------|--------------------------|---------------------------------------|
| Sodium Hydroxide | 1000 lb                  |                                       |
| 1310-73-2        | 454 kg                   |                                       |
| Toluene          | 1000 lb                  |                                       |
| 108-88-3         | 454 kg                   |                                       |

**FIFRA** Information

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

### CAUTION

Causes moderate eye irritation. Harmful if inhaled, swallowed, or absorbed through skin. This pesticide is toxic to marine/estuarine invertebrates

# US State Regulations

# California Proposition 65

This product contains the following Proposition 65 chemicals.

| 1 | Chemical name      | California Prop. 65 |  |
|---|--------------------|---------------------|--|
|   | Toluene - 108-88-3 | Developmental       |  |

### U.S. State Right-to-Know Regulations

| Chemical name               | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| Propylene glycol<br>57-55-6 | Х          |               | Х            |
| Toluene<br>108-88-3         | Х          | X             | Х            |

### International Inventories

| Chemical name                                                              | TSCA<br>(United<br>States) | DSL<br>(Canada) | EINECS/ELINC<br>S (Europe) | ENCS<br>(Japan) | China<br>(IECSC) | KECL (Korea) | PICCS<br>(Philippines) | AICS<br>(Australia) |
|----------------------------------------------------------------------------|----------------------------|-----------------|----------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| Propylene glycol<br>57-55-6                                                | Х                          | Х               | Х                          | Х               | Х                | X            | Х                      | Х                   |
| Oxirane, methyl-,<br>polymer with oxirane,<br>monobutyl ester<br>9038-95-3 | Х                          | X               |                            | Х               | Х                | X            | Х                      | Х                   |
| Toluene<br>108-88-3                                                        | Х                          | Х               | Х                          | Х               | Х                | Х            | Х                      | Х                   |

#### CANADA

This Safety Data Sheet is for a pesticide product registered by the Pest Management Regulatory Agency (PMRA), and is therefore also subject to certain requirements under Canadian pesticide laws, including the Pest Control Products Act (PCPA). These requirements differ from the classification criteria and hazard information required by the Hazardous Product Regulations (HPR) and WHMIS 2015 for safety data sheets, and for workplace labels of non-pesticide chemicals. The following information is determined by PMRA.

The approved pest control product label (the label), under the Pest Control Products Act, needs to be followed at all times and in cases where there are any discrepancies between the approved label and an SDS for that product it is the label information that prevails.

### **16. OTHER INFORMATION**

| NFPA | Health Hazards 1  | Flammability 1 | Instability 0     | Special Hazards -     |
|------|-------------------|----------------|-------------------|-----------------------|
| HMIS | Health Hazards 1* | Flammability 1 | Physical hazard 0 | Personal Protection X |

\*Indicates a chronic health hazard.

| NFPA/HMIS Ratings Legend | Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0 |
|--------------------------|----------------------------------------------------------------|
| Revision date:           | 2020-07-21                                                     |
| Reason for revision:     | SDS sections updated                                           |

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