# **SAFETY DATA SHEET**

**Authority® Assist Herbicide** 

SDS #: 6354-A Revision date: 2021-02-12

Format: NA

Format: NA Version 1.05



## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Authority® Assist Herbicide

Other means of identification

Product Code(s) 6354-A

Synonyms SULFENTRAZONE (FMC 97285):

2',4'-dichloro-5'-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl)

methanesulfonanilide (IUPAC name);

N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-

1,2,4-triazol-1-yl]phenyl] methanesulfonamide (CAS name),

, IMAZETHAPYR: N-[1-[(6-chloropyridin-3-yl)methyl]-4,5-dihydroimidazol-2-yl]nitramide

Active Ingredient(s) Sulfentrazone, Imazethapyr

Chemical Family Triazolinones, Imidazolinone

Recommended use of the chemical and restrictions on use

Recommended Use: Herbicide

**Restrictions on Use:** Use as recommended by the label.

Supplier Address

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

SDS-Info@fmc.com (E-Mail General Information)

Emergency telephone number

Medical Emergencies:

1 800 / 331-3148 (U.S.A. & Canada)

1 651 / 632-6793 (All Other Countries - Collect)

For leak, fire, spill or accident emergencies, call: 1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

# 2. HAZARDS IDENTIFICATION

## Classification

# **OSHA Regulatory Status**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (repeated exposure)	Category 2

# GHS Label elements, including precautionary statements

#### **EMERGENCY OVERVIEW**

## Warning

#### **Hazard Statements**

H332 - Harmful if inhaled

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



## **Precautionary Statements - Prevention**

P271 - Use only outdoors or in a well-ventilated area

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

P314 - Get medical advice/ attention if you feel unwell

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

## **Precautionary Statements - Disposal**

P501 - Dispose of contents/container to an approved waste disposal plant

#### 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, Imidazolinone.

Chemical name	CAS-No	Weight %
Sulfentrazone	122836-35-5	33.3
Glycerin	56-81-5	5-10
Imazethapyr	81335-77-5	6.7
Toluene	108-88-3	1-5
Propylene glycol	57-55-6	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.

Skin Contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

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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 effects, both acute and delayed Central nervous system effects.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Dry chemical. Carbon dioxide (CO<sub>2</sub>). **Small Fire** 

Large Fire Water spray. Foam.

Unsuitable extinguishing media Avoid heavy hose streams.

Specific Hazards Arising from the

Chemical

No information available

**Hazardous Combustion Products** Carbon oxides (COx), Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride, Hydrogen

**Explosion data** 

**Sensitivity to Mechanical Impact** Sensitivity to Static Discharge

No information available. No information available.

Protective equipment and precautions for firefighters Wear self-contained breathing apparatus and protective suit.

# 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Isolate and post spill area. Wear suitable protective clothing, gloves and eye/face

protection. Remove all sources of ignition. For personal protection see section 8.

Other For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1

"Product and Company Identification" above.

**Environmental Precautions** Keep people and animals away from and upwind of spill/leak.

**Methods for Containment** Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and

transfer to containers for later disposal.

Clean and neutralize spill area, tools and equipment by washing with water and soap. Methods for cleaning up

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.

# 7. HANDLING AND STORAGE

Handling Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces **Storage** 

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

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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
Glycerin	-	TWA: 15 mg/m <sup>3</sup>	-	Mexico: TWA 10 mg/m <sup>3</sup>
(56-81-5)		TWA: 5 mg/m <sup>3</sup>		
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
Glycerin	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	-	TWA: 10 mg/m <sup>3</sup>
(56-81-5)	TWA: 3 mg/m <sup>3</sup>			
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
Propylene glycol	-	-	TWA: 10 mg/m <sup>3</sup>	-
(57-55-6)			aerosol only	
			TWA: 50 ppm	
			aerosol and vapor	
			TIMA: 455	
			TWA: 155 mg/m <sup>3</sup>	
			aerosol and vapor	

#### 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 Minimize skin contamination by following good industrial hygiene practices.

**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

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# Information on basic physical and chemical properties

Appearance Off-white Liquid

Physical State Liquid
Color Off-white
Odor Low Alcohol

Odor threshold No information available

**pH** 3.36

Melting point/freezing point Not applicable

Boiling Point/RangeNo information availableFlash point76.6 °C / 169.88 °FEvaporation RateNo information availableFlammability (solid, gas)No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Relative density
Specific gravity
No information available
No information available
No information available
1.2 g/mL @ 25°C
No information available

Water solubility Soluble in water

No information available Solubility in other solvents **Partition coefficient** No information available No information available **Autoignition temperature Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available No information available Oxidizing properties No information available Molecular weight No information available **Bulk density** 

# 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** Heat, flames and sparks.

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
 5000 mg/kg (rat)

 LD50 Dermal
 > 5000 mg/kg (rat)

 LC50 Inhalation (dust)
 > 2.09 mg/L 4 hr (rat)

Serious eye damage/eye irritation Minimally irritating (rabbit).

Skin corrosion/irritation Non-irritating.
Sensitization Non-sensitizing.

Chemical name	LD50 Oral	LD50 Oral LD50 Dermal	
Glycerin	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h

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(56-81-5)			
Imazethapyr (81335-77-5)	> 5 g/kg (Rat)	> 2000 mg/kg(Rabbit)	
Toluene (108-88-3)	= 2600 mg/kg (Rat)	= 12000 mg/kg(Rabbit)	= 12.5 mg/L (Rat)4 h
Propylene glycol (57-55-6)	20000 mg/kg ( Rat )	20800 mg/kg(Rabbit)	

#### Information on toxicological effects

#### **Symptoms**

Signs of toxicity in laboratory animals given sulfentrazone included clonic convulsions, ataxia, hypersensitivity to touch, chromorhinorrhea, abdominogenital staining, decreased locomotion, lacrimation, nasal discharge, and squinting eyes. Acute poisoning from ingestion of large quantities of liquid imidazolinone herbicide has resulted in hypotension, pulmonary dysfunction, oral mucosal and gastrointestinal irritation, leukocytosis, metabolic acidosis, and transient liver and renal dysfunction. Imidazolinone herbicides are CNS depressants, causing impaired consciousness and coma in some cases. Nausea and intense vomiting shortly following ingestion is common, and diarrhea may occur. Severe symptoms have included impairment of consciousness and respiratory distress requiring intubation. Decreased blood pressure may occur following excessive doses. Mucous membranes may become ulcerated following ingestions or splashes due to the corrosive action of imidazolinone. Aspiration pneumonitis is a common clinical occurrence following ingestions.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic toxicity** Sulfentrazone: Prolonged exposure cause decreased hemoglobin content and hematocrit.

and increased spleen weight and splenic extramedullary hematopoiesis at high doses in

animal studies.

Mutagenicity Sulfentrazone, Imazethapyr: Not genotoxic in laboratory studies.

Sulfentrazone, Imazethapyr: No evidence of carcinogenicity from animal studies. Carcinogenicity **Neurological effects** 

Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high

dose levels

Reproductive toxicity Sulfentrazone, Imazethapyr: No toxicity to reproduction in animal studies.

**Developmental toxicity** Sulfentrazone: Fetal weight decreased; delayed skeletal ossification observed at maternally non-toxic doses are reversible effects and a dose-response is established; malformations

observed in fetuses at maternally toxic doses and consistent with the mode of action for protoporphyrongen oxidase inhibitors. Developmental toxicity testing and results were

generated for sulfentrazone with toluene present as an impurity.

Imazethapyr: Not teratogenic in animal studies.

Not classified. STOT - single exposure

May cause damage to organs through prolonged or repeated exposure. STOT - repeated exposure

Target organ effects Sulfentrazone: Hematopoietic system.

**Neurological effects** Sulfentrazone: Clinical signs of neurotoxicity in laboratory animals was observed at high

dose levels

No information available. **Aspiration hazard** 

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

### IARC (International Agency for Research on Cancer)

Group 3 - Not classifiable as to its carcinogenicity to humans

# 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

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48 h EC50	Daphnia magna	60.4	mg/L
21 d NOAEC	Daphnia magna	0.2	mg/L
120 h EC50	Pseudokirchneriella subcapitata	0.031	mg/L
120 h EC50	Navivula pelliculosa	0.042	mg/L
14-day EC50	Lemna gibba (duckweed)	0.0288	mg/L
14-d NOAEL	Lemna gibba (duckweed)	0.019	mg/L

lmazethapyr (81335-77-5)				
Active Ingredient(s)	Duration	Species	Value	Units
Imazethapyr	96 h LC50	Fish	411.47	mg/L
	EC50 96h	Algae	389.2	mg/L
	LD50 Oral	Bobwhite quail	2,200	mg/kg
	LD50 Oral	Mallard duck	2,100	mg/kg
	LD50	Bee	>100	μg/bee

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	
Toluene 108-88-3	72 h EC50: = 12.5 mg/L (Pseudokirchneriella subcapitata) static 96 h EC50: > 433 mg/L (Pseudokirchneriella subcapitata)	96 h LC50: 11.0 - 15.0 mg/L (Lepomis macrochirus) static 96 h LC50: 14.1 - 17.16 mg/L (Oncorhynchus mykiss) static 96 h LC50: 15.22 - 19.05 mg/L (Pimephales promelas) flow-through 96 h LC50: 5.89 - 7.81 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: 50.87 - 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	48 h EC50: 5.46 - 9.83 mg/L (Daphnia magna) Static 48 h EC50: = 11.5 mg/L (Daphnia magna)	
Sulfentrazone 122836-35-5	32.6	(Oryzias latipes) static 94 mg/L&5.9	60.4 mg/L&0.51	
Ammonium hydroxide 1336-21-6		96 h LC50: = 8.2 mg/L (Pimephales promelas)	48 h EC50: = 0.66 mg/L (Daphnia pulex) 48 h EC50: = 0.66 mg/L (water flea)	
Polyethylene glycol 25322-68-3		24 h LC50: > 5000 mg/L (Carassius auratus)		
Cyclomethicone 556-67-2		96 h LC50: > 1000 mg/L (Lepomis macrochirus) 96 h LC50: > 500 mg/L (Brachydanio rerio)	24 h EC50: = 25.2 mg/L (Daphnia magna)	
Glycerin 56-81-5		96 h LC50: 51 - 57 mL/L (Oncorhynchus mykiss) static	24 h EC50: > 500 mg/L (Daphnia magna)	
Magnesium Chloride 7786-30-3	72 h EC50: > 82.7 mg/L (Pseudokirchneriella subcapitata)	96 h LC50: 1970 - 3880 mg/L (Pimephales promelas) static 96 h LC50: = 4210 mg/L (Gambusia affinis) static	48 h EC50: = 140 mg/L (Daphnia magna) Static 24 h EC50: = 1400 mg/L (Daphnia magna)	
Methyl ethyl ketone 78-93-3		96 h LC50: 3130 - 3320 mg/L (Pimephales promelas) flow-through	48 h EC50: 4025 - 6440 mg/L (Daphnia magna) Static 48 h EC50: = 5091 mg/L (Daphnia magna) 48 h EC50: > 520 mg/L (Daphnia magna)	

Persistence and degradability Sulfentrazone: Persistent. Does not readily hydrolyze. Not readily biodegradable.

Sulfentrazone: The substance does not have a potential for bioconcentration. **Bioaccumulation** 

Mobility Sulfentrazone: Immobile. Not expected to reach groundwater.

# 13. DISPOSAL CONSIDERATIONS

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Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these

wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Proper personal protective equipment, as described in

Sections 7 and 8, must be worn while handling materials for waste disposal.

Contaminated containers and

packages

Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions. Do not reuse or refill this

container.

# 14. TRANSPORT INFORMATION

**DOT** This material is not a hazardous material as defined by U.S. Department of Transportation

49 CFR Parts 100 through 185, unless shipped in bulk packaging. The classification below pertains to the shipment in bulk packaging [(>119 gal, liquid) or (882 lb, solid)].

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group ||

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, PGIII,

Marine pollutant

TDG Classification below is only applicable when shipped by vessel and is not applicable when

shipped by road or rail only.

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group III

Marine Pollutant Sulfentrazone.

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, PGIII,

Marine pollutant

## ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group III

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (sulfentrazone), 9, PGIII,

Marine pollutant

IMDG/IMO

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.(sulfentrazone)

Hazard class 9
Packing Group III
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

#### **SARA 313**

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:

			<u> </u>
Chemical name	CAS-No	Weight %	SARA 313 - Threshold
		_	Values %

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Toluene - 108-88-3	108-88-3	1-5	1.0

# 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 Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Toluene 108-88-3	1000 lb	X	X	X
Ammonium hydroxide 1336-21-6	1000 lb			X

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Toluene	1000 lb	
108-88-3	454 kg	
Ammonium hydroxide	1000 lb	
1336-21-6	454 kg	
Methyl ethyl ketone	5000 lb	
78-93-3	2270 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.

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

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Glycerin	X	X	X
56-81-5			
Toluene	X	X	X
108-88-3			
Propylene glycol	X		X
57-55-6			

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## **International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Glycerin 56-81-5	X	Х	X	Χ	X	X	Х	Х
Imazethapyr 81335-77-5					Х			
Toluene 108-88-3	Х	Х	X	X	Х	Х	Х	Х
Propylene glycol 57-55-6	Х	Х	Х	Х	Х	Х	Х	Х

#### CANADA

Not applicable

	16. OTHER INFORMATION	
•		

NFPA	Health Hazards 2	Flammability 2	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 2	Physical hazard 0	Personal Protection X

<sup>\*</sup>Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

**Revision date:** 2021-02-12

Reason for revision: SDS sections updated.

#### **Disclaimer**

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End of Safety Data Sheet