

# SAFETY DATA SHEET

# **Axill Solutions Glufosinate 280SL**

# 1. IDENTIFICATION

Product identifier

Product Name Axill Solutions Glufosinate 280SL

Other means of identification

Product Code 93809-14 Synonyms None Registration Number(s) 93809-14

Recommended use of the chemical and restrictions on

use Recommended Use Herbicide

Uses advised against No information available

# Details of the supplier of the safety data sheet

**Manufacturer Address** 

Axill Solutions 422 Jasmine Way Roseburg, OR97471 (559) 936-0444

Emergency telephone numberCHEMTREC: 800-424-9300Company Phone NumberCHEMTREC: 703-527-3887

Emergency Telephone POISON CONTROL CENTER: 800-222-1222

# 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

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

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

# Label elements

# **Emergency Overview**

# Danger

# **Hazard statements**

Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
May damage fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure

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Appearance aqueous solution Physical state liquid Odor Slight

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable

### Other Information

May be harmful in contact with skin. Harmful to aquatic life with long lasting effects.

### **Unknown acute toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Not applicable

#### Mixture

Chemical Name	CAS No	Weight-%
Other ingredients *	Proprietary	60 - 80
Glufosinate ammonium *	77182-82-2	24.5
2,4-Pentanediol, 2-methyl- *	107-41-5	7 - 13

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice Call a poison control center or doctor for treatment advice. Have the product containers or

label with you when calling a poison control center or doctor, or going for treatment.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control

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center or doctor for treatment advice.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician. Call a poison control center or doctor for treatment advice.

**Inhalation** Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately. Administer oxygen if breathing is

difficult.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting without

medical advice. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions

to protect themselves.

### Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. May cause skin irritation.

### Indication of any immediate medical attention and special treatment needed

lavage should be performed as soon as possible followed by charcoal and sodium sulfate

administration.

### 5. FIRE-FIGHTING MEASURES

# Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.

Unsuitable extinguishing media None.

# Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx).

#### Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Avoid runoff to waterways and sewers.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Use personal protective equipment as required. Keep people away from and upwind

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of spill/leak.

**Environmental precautions** 

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas.

# Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up

and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protective equipment as required. Wash thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Do not breathe

dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep out of the reach of children. Keep/store only in original container. Keep containers

tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and

animal feeding stuffs.

Packaging materials Do not reuse container.

**Incompatible materials** Strong oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL
2,4-Pentanediol, 2-methyl-	STEL: 50 ppm vapor fraction	-	Ceiling: 25 ppm
107-41-5	STEL: 10 mg/m³ inhalable		Ceiling: 125 mg/m <sup>3</sup>
	particulate matter, aerosol only		
	TWA: 25 ppm vapor fraction		

NIOSH IDLH Immediately Dangerous to Life or Health

# Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. And. Showers. Eyewash

stations. Ventilation systems.

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or

hoots

Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded Respiratory protection

> or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

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regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

Seta Closed Cup

@ 25 °C

after handling. Keep away from food, drink and animal feeding stuffs.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state liquid

**Appearance** aqueous solution Odor Slight

Color **Odor threshold** Amber No information available

Values Remarks • Method Property

Hq 7.28 solution (1 %)

Melting point / freezing point No information available Boiling point / boiling range No information available

Flash point > 110 °C / > 230 °F

**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 ~17 mmHg

Vapor density No information available

Relative density 1 14

Water solubility Miscible in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dvnamic viscosity** No information available

**Explosive properties** Not an explosive Not applicable Oxidizing properties

### **Other Information**

No information available Softening point Molecular weight No information available **VOC Content (%)** No information available Density No information available **Bulk density** No information available

# 10. STABILITY AND REACTIVITY

# Reactivity

No data available

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#### **Chemical stability**

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Elevated Temperature. Storage near to reactive materials.

# **Incompatible materials**

Strong oxidizing agents.

# **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NOx). Carbon oxides.

# 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

**Inhalation** Based on available data, the classification criteria are not met.

**Eye contact** Irritating to eyes.

**Skin contact** Irritating to skin.

**Ingestion** Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glufosinate ammonium	= 1510 mg/kg (Rat) = 1620 mg/kg	= 1380 mg/kg (Rat) > 4000 mg/kg	= 1.26 mg/L (Rat) 4 h > 0.62
77182-82-2	(Rat)	(Rat)	mg/L (Rat)4 h
2,4-Pentanediol, 2-methyl-	= 3700 mg/kg (Rat)	= 12300 mg/kg (Rabbit)= 8560	> 310 mg/m³ (Rat)1 h
107-41-5		μL/kg (Rabbit)	. ,

### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. May cause skin irritation.

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

SensitizationBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.CarcinogenicityBased on available data, the classification criteria are not met.

Reproductive toxicity Product is or contains a chemical which is a known or suspected reproductive hazard.

STOT - single exposure
STOT - repeated exposure
Aspiration hazard

Based on available data, the classification criteria are not met.
Causes damage to organs through prolonged or repeated exposure.
Based on available data, the classification criteria are not met.

### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document ...

 ATEmix (oral)
 1,083.00 mg/kg

 ATEmix (dermal)
 2,514.00 mg/kg

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Harmful to aquatic life with long lasting effects

 $0\ \%$  of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
2,4-Pentanediol, 2-methyl-	-	10500 - 11000: 96 h Pimephales	2700 - 3700: 48 h Daphnia magna
107-41-5		promelas mg/L LC50 flow-through	mg/L EC50
		8690: 96 h Pimephales promelas	
		mg/L LC50 flow-through 10700: 96	
		h Pimephales promelas mg/L LC50	
		static 10000: 96 h Lepomis	
		macrochirus mg/L LC50 static	

### Persistence and degradability

Not readily biodegradable.

#### Bioaccumulation

Not likely to bioaccumulate.

Chemical Name	Partition coefficient
2,4-Pentanediol, 2-methyl-	<0.14
107-41-5	

# Other adverse effects

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal of wastes

Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on proper disposal of waste product.

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### Contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations. Consult product label for additional information. Do not reuse container.

# 14. TRANSPORT INFORMATION

DOTNot regulatedTDGNot regulatedIATANot regulated

<u>IMDG</u> Not regulated

# 15. REGULATORY INFORMATION

### International Inventories

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

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### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### 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

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# US State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
2,4-Pentanediol, 2-methyl- 107-41-5	Х	X	X

### U.S. EPA Label Information

EPA Pesticide Registration Number 93809-14

# **EPA Statement**

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:

# Difference between SDS and EPA Pesticide label

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin. Harmful if swallowed. DO NOT get in eyes or on clothing. Avoid contact with skin.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical

Properties -

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Health hazards 2\* Flammability 0 Physical hazards 0 Personal protection X

Chronic Hazard Star Legend \* = Chronic Health Hazard

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**Revision Note** 

No information available

### **Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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