

# SAFETY DATA SHEET

An Employee-Owned Company

Issue Date 15-Feb-2023 Revision Date 15-Feb-2023 Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier.

Product Name Arkon Herbicide Liquid

Other means of identification

Product Code PBI FP 849 EPA Pesticide Registration Number 2217-1072

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

<u>Supplier Address</u> <u>Company Name</u> <u>Manufacturer</u>

PBI-Gordon Corporation
P.O. Box 860350
Shawnee, KS 66286
Shawnee, KS 66286
Shawnee, KS 66286

Emergency telephone number

24 Hour Emergency Phone Number Chemtrec 1-800-424-9300

#### 2. HAZARDS IDENTIFICATION

#### Classification

#### **OSHA Regulatory Status**

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

Acute Aquatic Toxicity	Category 3
Chronic Aquatic Toxicity	Category 3

#### Label elements

### **Emergency Overview**

#### Hazard statements

Harmful to aquatic life with long lasting effects

Appearance Liquid Physical state Liquid Odor Sweet

# Hazards not otherwise classified (HNOC)

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

#### Other information

Not applicable.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# Substance

Not applicable.

Revision Date 15-Feb-2023

#### Mixture

Chemical name	CAS-No	Weight-%
Trade Secret	Trade secret	3-7
Pyrimisulfan	221205-90-9	1.24
Trade Secret	Trade secret	0.1-1.0

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

#### **Description of first aid measures**

**Eye contact**Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

If symptoms persist, call a physician.

**Skin contact** Wash skin with soap and water. If symptoms persist, call a physician.

**Inhalation** Remove to fresh air. If symptoms persist, call a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a

physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available

Indication of any immediate medical attention and special treatment needed

# 5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

**Unsuitable extinguishing media** No information available.

Specific hazards arising from the

<u>chemical</u>

In the event of fire and/or explosion do not breathe fumes. Thermal decomposition can lead

to release of irritating and toxic gases and vapors.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas Do not flush into

surface water or sanitary sewer system See Section 12 for additional ecological information Avoid release to the environment Dispose of contents/container to an approved waste

Revision Date 15-Feb-2023

disposal plant

#### 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 Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material.

Pick up and transfer to properly labeled containers.

# 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. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid

contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

labeled containers. Keep from freezing. Keep out of the reach of children.

·

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure

Revision Date 15-Feb-2023

limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trade Secret	STEL: 150 ppm	TWA: 100 ppm	IDLH: 600 ppm
	TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>	TWA: 100 ppm
	S*	(vacated) TWA: 100 ppm	TWA: 600 mg/m <sup>3</sup>
		(vacated) TWA: 600 mg/m <sup>3</sup>	STEL: 150 ppm
		(vacated) STEL: 150 ppm	STEL: 900 mg/m <sup>3</sup>
		(vacated) STEL: 900 mg/m <sup>3</sup>	
		(vacated) S*	
		S*	
Trade Secret	STEL: 15 ppm	TWA: 10 ppm	IDLH: 500 ppm
	TWA: 5 ppm	TWA: 18 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 18 mg/m <sup>3</sup>
		(vacated) TWA: 18 mg/m <sup>3</sup>	_

**Appropriate engineering controls** 

Engineering controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Chemical resistant gloves.

**Skin and body protection** Wear long-sleeved shirt, long pants, socks and shoes.

**Respiratory protection** If exposure limits are exceeded 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 regulations.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

Revision Date 15-Feb-2023

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color Black Brown
Odor Sweet

Odor threshold No information available

Property Values Remarks • Method

**pH** 7.8-8.8

Melting point/freezing pointNone knownBoiling point / boiling rangeNo data availableNone known

Flash point 99 °C / 210 °F
Evaporation rate No data available None known
Flammability (solid, gas) No data available None known
Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit: No data available

Vapor pressureNo data availableNone knownVapor densityNo data availableNone knownSpecific Gravity1.024None known

Water solubilitySoluble in waterSolubility in other solventsNo data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone known

Other Information

Liquid Density8.54 pounds/gallonBulk densityNo information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No information available.

#### Stability

No information available

#### Possibility of hazardous reactions

None under normal processing.

#### Conditions to avoid

Keep out of reach of children.

# **Incompatible materials**

None known based on information supplied.

#### Hazardous decomposition products

None known based on information supplied.

·

Revision Date 15-Feb-2023

#### 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	= 5.35 g/kg (Rat)	= 9500 mg/kg ( Rabbit )	-
Trade Secret	= 698 mg/kg (Rat)	= 3900 mg/kg (Rat)	= 7340 ppm (Rat) 20 min

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### **Acute toxicity**

#### Numerical measures of toxicity - Product Information

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

ATEmix (oral) 2862 mg/kg ATEmix (dermal) 11035 mg/kg

#### **Unknown Toxicity**

1 % of the mixture consists of ingredient(s) of unknown toxicity

1 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

1 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Target Organ Effects** Respiratory system, Eyes, Central nervous system.

# 12. ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects. **Ecotoxicity** 

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Trade Secret	-	10000: 96 h Pimephales	-	1919: 48 h Daphnia magna
		promelas mg/L LC50 static		mg/L LC50
Pyrimisulfan	EbC50 20µ g/L 72H	LC50 > 127000µ g/L 92H	-	EC50 >122000µ g/L
221205-90-9				
Trade Secret	9: 96 h Pseudokirchneriella	111 - 125: 96 h	EC50 = 26.8 mg/L 15 min	88.7: 48 h Daphnia magna
	subcapitata mg/L EC50	Oncorhynchus mykiss mg/L	_	Straus mg/L EC50
		LC50		-
		127 - 349: 96 h Poecilia		
		reticulata mg/L LC50		
		semi-static		
		120: 96 h Oncorhynchus		
		mykiss mg/L LC50 static		
		210: 96 h Poecilia reticulata		
		mg/L LC50 static		
		396: 96 h Brachydanio rerio		
		mg/L LC50 static		

Persistence and degradability No information available.

Bioaccumulation **Component Information**  There is no data for this product.

No information available. Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Do not reuse empty containers. Contaminated packaging

**US EPA Waste Number** U092

# 14. TRANSPORT INFORMATION

Not regulated DOT

TDG Not regulated

Not regulated **MEX** 

Not regulated ICAO (air)

Not regulated IATA

IMDG Not regulated

# 15. REGULATORY INFORMATION

### U.S. EPA Label Information

#### **EPA Pesticide Registration Number** 2217-1072

#### Federal Insecticide, Fungicide, Rodenticide Act Regulations

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:

#### **EPA Pesticide Label**

Hazards to Humans and Domestic Animals Caution: Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### **International Inventories**

TSCA	Not Listed
DSL/NDSL	Not Listed
EINECS/ELINCS	Not Listed
ENCS	Not Listed
IECSC	Not Listed
KECL	Not Listed
PICCS	Not Listed
AICS	Not Listed

#### 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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (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
Trade Secret	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
Trade Secret	1000 lb	-

#### **US State Regulations**

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

**US State Regulations** 

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	X
7732-18-5			
Trade Secret	-	-	Х
Trade Secret	X	Х	Х
Trade Secret	X	Х	Х

# **16. OTHER INFORMATION**

NFPA_	<b>Health hazards</b> 0	Flammability 1	Instability 0	Physical and Chemical
				Properties -
<u>HMIS</u>	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of PBI-Gordon Corporation's knowledge, information and belief at the date of this publication. The information given is designed only as 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 other process, unless specified in the text. PBI-GORDON CORPORATION MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. PBI-Gordon Corporation assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

**End of Safety Data Sheet**