

**SAFETY DATA SHEET****SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****COMPANY ADDRESS:**

ALBAUGH, INC.  
Ankeny, IA 50021

**EMERGENCY TELEPHONE NUMBERS:**

(800) 424-9300 (CHEMTREC, transportation and spills)

**PRODUCT NAME** : AGGRESSOR Herbicide  
**CHEMICAL NAME** : Quiazalofop p-ethyl  
**CHEMICAL FAMILY** : Herbicide  
**PRODUCT CODE** : EPA Reg. No. 42750-313

**SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Clear yellow liquid

**HEALTH HAZARDS:** WARNING.

Moderately irritating to eyes. Reproductive toxicity.

**PHYSICAL HAZARDS:** May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS:** Toxic to fish and non-target plants.

Can contaminate water through spray drift or runoff.

**SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS**

COMPONENT	PERCENTAGE	CAS NUMBER
Quiazalofop p-ethyl	10.3%	100646-51-3
N-methyl-2-pyrrolidone	< 8.0%	872-5-4
Petroleum distillates*	75.0-80.0	64742-94-5
*Naphthalene	10.0-11.0	91-20-3

**SECTION 4 - FIRST AID MEASURES**

**IF SWALLOWED:** 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 the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye 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 eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Contains petroleum distillates.

### SECTION 5 - FIRE FIGHTING MEASURES

**FLASH POINT(method):** > 100 C

**FLAMMABLE LIMITS:** Unknown.

**FIRE AND EXPLOSION HAZARD:** May decompose in fire releasing irritating and toxic gases.

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material. Avoid use of high volume water and pressure to reduce contamination risk due to runoff.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, scrub the area with detergent and water and neutralize with dilute alkaline solutions of soda ash, or lime.

Wear appropriate personal protection equipment. (See Section 8 Exposure Controls, Personal Protection.)

### SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

**HANDLING:** Combustible. Keep away from heat, sparks and open flames. Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

**STORAGE:** Store in original container with lid tightly closed. Keep away from food, feed and drinking water. Combustible liquid, store in a well ventilated, dry place away from heat and sources of ignition.

### SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

**EXPOSURE LIMITS (8 hour TWA, ppm):**

COMPONENT	OSHA PEL	ACIGH TLV
Quiazalofop p-ethyl	Not listed	Not listed
N-methyl-2-pyrrolidone	Not listed	Not listed
Naphthalene	10 ppm	10 ppm TWA 15 ppm ST

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to minimize exposure to airborne contaminants. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**PERSONAL PROTECTIVE EQUIPMENT:**

EYE PROTECTION - Safety glasses with side shields, safety goggles or full face shield.

CLOTHING - Long-sleeved shirt and long pants, Shoes plus socks

GLOVES – Chemical resistant gloves such as barrier laminate or Viton.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Light yellow clear liquid
<b>Odor:</b>	Slightly pungent odor
<b>pH:</b>	5.0 - 6.0
<b>Melting Point:</b>	Not applicable
<b>Boiling Point:</b>	No data
<b>Flash Point:</b>	>100°C
<b>Evaporation Rate:</b>	No data
<b>Flammability:</b>	Not flammable
<b>Flammability Limits:</b>	Not applicable
<b>Vapor Pressure:</b>	No data
<b>Vapor Density:</b>	No data
<b>Density:</b>	1.015 - 1.021 g/ml (8.47 – 8.52 lb/gal.)*
<b>Solubility:</b>	Soluble
<b>Partition Coefficient:</b>	No data
<b>Auto-Ignition Temperature:</b>	No data
<b>Decomposition Temperature:</b>	No data
<b>Viscosity:</b>	5.6 cSt @ 20°C, 3.3 cSt @40°C

\*Listed density is an approximate value and does not necessarily represent that of a specific batch.

**SECTION 10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable, however may decompose if heated.

**CONDITIONS TO AVOID:** Avoid temperatures above (115°F, 46°C) and below 25°F (-5°C).

**INCOMPATIBILITY WITH OTHER MATERIALS:** Acidic and oxidizing materials, halogenated organics, brass, copper, zinc and aluminum metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, Oxides of nitrogen, Chlorinated pyridine.

**HAZARDOUS POLYMERIZATION:** Product will not undergo polymerization.

**SECTION 11 - TOXICOLOGICAL INFORMATION****ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat)	- 1,750 mg/kg
Dermal LD <sub>50</sub> (rabbit)	- > 5,000 mg/kg
Inhalation LC <sub>50</sub> (rat)	- > 2.07 mg/L
Eye Irritation (rabbit)	- Moderate
Skin Irritation (rabbit)	- Slight

Sensitization (guinea pig) - Non-sensitizer

**CARCINOGEN STATUS:**

OSHA - Not listed  
NTP - Naphthalene  
IARC - Naphthalene: 2B

**MUTAGENIC DATA:** No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

**REPRODUCTIVE DATA:** Animal studies showed N-methyl-2-pyrrolidone exhibits reproductive effects at levels equal to or above those causing parental toxicity.

**SECTION 12 - ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** This pesticide is toxic to fish and invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

Refer to container label for complete Environmental Hazards precautions.

**FISH TOXICITY:** (Quizalofop-P-ethyl technical)

96 hour LC<sub>50</sub>, Rainbow trout – 0.72 mg/l  
96 hour LC<sub>50</sub>, Bluegill – Unknown

**AVIAN TOXICITY:** (Quizalofop-P-ethyl technical)

Oral LC<sub>50</sub>, Bobwhite quail - > 5,000 ppm  
Oral LC<sub>50</sub>, Mallard duck – > 5,000 ppm

**BEE TOXICITY -** Unknown

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food, or feed by storage or disposal.

**WASTE:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER:** Non-refillable containers: Do not reuse or refill this container. Offer for reconditioning, if appropriate. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

**SECTION 14 - TRANSPORT INFORMATION****DOT SHIPPING DESCRIPTION:**

Containers > 119 gallons – UN3082, Environmentally Hazardous Substances, Liquid, N.O.S., (quizalofop P-ethyl, Naphthalene), 9, PG III

**DOT HAZARD CLASS:** Class 9  
**IDENTIFICATION NUMBER:** UN 3082  
**DOT PACKING GROUP:** PG III  
**DOT PRIMARY/SECONDARY LABEL:** Class 9  
**DOT PRIMARY/SECONDARY PLACARD:** Class 9 (> 119 gallons)  
**DOT EMERGENCY RESPONSE GUIDE #:** 171

**SECTION 15 - REGULATORY INFORMATION**

**CERCLA REPORTABLE QUANTITY:** Not listed

**SARA TITLE III STATUS:**  
 311/312 Hazard Categories – Immediate & Delayed Health  
 313 Toxic Chemicals – N-Methyl-2-pyrrolidone, Naphthalene

**CALIFORNIA PROP 65:** Listed, contains N-methyl-2-pyrrolidone

**SECTION 16 - OTHER INFORMATION**

HMIS HAZARD RATINGS	HEALTH	2				
	FLAMMABILITY	1				
	PHYSICAL HAZARD	0				
	4=Severe    3=Serious    2=Moderate    1=Slight    0=Minimal					

**DISCLAIMER:** The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

**REVISED DATE:** May 2019

**REFERENCE:** Updated for Naphthalene (Section 3, 8, 11 & 15)