



Safety Data Sheet

No. AP-100

*** Section 1 - Chemical Product and Company Identification ***

Product Name : HOOK

Product Use : Multi-Purpose Adjuvant for Herbicides, Fungicides & Insecticides
Synonyms : None
Manufacturer/Supplier : Atlantic-Pacific Agricultural Company, Inc.
Address : 427 Ridge Street, Reno, NV 89509
Corporate Telephone Number : 941-474-8382
Emergency Telephone Number : 336-260-3121

*** Section 2 - Hazards Identification ***



Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H320 - Causes eye irritation
H332 - Harmful if inhaled
H333 - May cause respiratory irritation
H402 - Harmful to aquatic life, Category 3, no signal word for this category.

Precautionary statements (GHS-US) : P101 - If medical advice is needed, have product label/container at hand
P102 - Keep out of Reach of Children
P103 - Read label before use
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P264 - Wash ... thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P312 - Call a poison center/doctor/... if you feel unwell
P337+P313 - If eye irritation persists: Get medical advice/attention
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents/container to ... specify in accordance with local/regional/national regulations

Other Hazards : This product may contain trace amounts of residual ethylene oxide and propylene oxide. See precautions in Section 8.

Acute Toxicity : **Category 4 - (Oral)** 5000 mg/kg
Category 4 - (Dermal) 5050mg/kg
Inhalation not determined.



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Skin Corrosion Classification: Category – 3
Eye Damage/Irritation Classification: Category – 2B
Respiratory and Skin Sensitization Classification: Not Classified.

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
Proprietary Formulated Mixture	Alkyl Polyoxyethylene ethers, polymerized resins and fatty acids Inerts	17.6 82.4
Precaution	This product contains trace amounts of Naphthalene. See precautions in Sections 7&8.	<0.08%
Precaution:	This product <u>may</u> contain trace amounts of residual ethylene oxide and/or propylene oxide. See precautions in Section 8.	<0.0001%

*** Section 4 - First Aid Measures ***

Description of First Aid Measures

- First-aid measures general** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
- First-aid measures after skin contact** : Wash with plenty of soap and water. Remove and wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label).
- First-aid measures after eye contact** : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- First-aid measures after ingestion** : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most important Symptoms both acute and delayed

- Symptoms/injuries after inhalation** : May cause respiratory irritation.
- Symptoms/injuries after skin contact** : May be harmful in contact with skin.
- Symptoms/injuries after eye contact** : Causes eye irritation.



*** Section 5 - Fire Fighting Measures ***

- Extinguishing media** : Use fire extinguishing media appropriate for surrounding materials. Water, spray, foam, dry powder or carbon dioxide.
- Specific Hazards Arising from the chemical** : This material is non-combustible. If heated, toxic vapors/gasses/mists may be formed, such as carbon monoxide and carbon dioxide.
- Protection during firefighting** : Do not enter fire area without proper protective equipment, including respiratory protection.

*** Section 6 - Accidental Release Measures ***

- Personal Precautions** : Avoid inhalation of vapors, especially if there is a fire.
- Containment Procedures** : Contain spill. Do not allow material to run into sewers and drains.
- Clean-Up Procedures** : Absorb spill with inert material. Shovel material into appropriate labeled, container for disposal. Flush small residuals to the drain for normal biological treatment.
- Evacuation Procedures** : None required.
- Special hazards arising from the substance or mixture** : If product is in a fire, toxic vapors/gasses/mists may be formed, such as carbon monoxide and carbon dioxide.

*** Section 7 - Handling and Storage ***

- Handling Procedures** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Ensure there is access to eyewash and showers in the manufacturing area close to work station location.
- Storage Procedures** : Keep containers tightly closed. Store in a cool, well ventilated area. Do not freeze. Keep away from heat and direct sunlight. Avoid freezing.

*** Section 8 - Exposure Controls / Personal Protection ***

- TV/PE** : Not specified
- Appropriate Engineering Control** : While manufacturing this product, general and/or local exhaust should be sufficient.
- Personal Protective Equipment** : Chemical resistant and impervious clothes should be worn. Safety goggles must be worn at all times.
- Other Information** : This product may contain trace amounts (<0.0001 %) of residual ethylene oxide (EO) and propylene oxide (PO), a condition which creates a very slight potential for accumulation in the headspace of shipping and storage containers. The concentration of EO & PO in the head space is not there in enough amounts to cause the OSHA 0.5 ppm action level for exposure. Handle product as stated in this SDS and the trace amounts of EO & PO are not expected to result in acute or chronic hazards. The presence of these trace residual amounts is not expected to result in any short term or long term hazard. Use NIOSH approved Personal Protective Equipment (PPE) when manufacturing, and when spraying solutions. Wash...thoroughly after handling. EO & PO are on CA, PA, MA, NJ & FL Lists of potential hazardous substances.



This product contains trace amounts of Naphthalene. When HOOK is diluted to 1-Qt/100 gallons per label directions, there is <0.00035% Naphthalene in the spray tank solution. If using Naphthalene chemical, alone, at 100%, the Exposure Limits to that chemical is listed below. Since it is in our product at such a reduced amount, use normal precautions when handling HOOK, Read and understand the label and SDS. Use approved NIOSH gloves and goggles and masks as needed. Avoid breathing spray/mists/vapors of HOOK spray dilution.

*** Section 9 - Physical & Chemical Properties ***

Odor/Appearance : Cream to tan colored emulsion, aromatic aroma.
Flash Point, °F : Not applicable.
Boiling Point, °F : >212^o F.
Melting point (freezing point) °F : <32^oF
Vapor Pressure, mm Hg @ 200°C : Not determined
Vapor Density : Not determined
Solubility in water : Miscible
Density : 1.01-1.02 g/ml. 8.4 – 8.5 lbs/gal Avg. 1.-0120g/ml (typical 8.43 lbs)
Evaporation Rate (butyl acetate=1) : Not determined.
Octanol/Water Partition Coefficient : Not applicable
pH : 8-9.5 Typically 8.5
Flammable Limits (approx. volume % in air) : Not applicable.
Auto-Ignition Temperature : Not applicable.
Decomposition temperature : >200^oC

*** Section 10 - Chemical Stability & Reactivity Information ***

Reactivity : None.
Chemical Stability : None.
Hazardous Decomposition Product
Hazardous Polymerization : Will not occur
Conditions to Avoid : None known.
Incompatible Materials : Strong bases. Strong acids

*** Section 11 - Toxicological Information ***

Acute Toxicity : **Category 4 - (Oral)** 5000 mg/kg
Category 4 - (Dermal) 5050mg/kg
Skin Corrosion Classification: Category – 3
Eye Damage/Irritation Classification: Category – 2B
Respiratory and Skin Sensitization Classification: Not Classified.

Likely Routes of Entry : Skin, eyes, inhalation
Chronic Effects : None currently known.
Other Hazards : None currently known.



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Component Carcinogenic effects

Trace amounts of residual ethylene oxide and propylene oxide (EO & PO) may be present in the head space. See Section 8 for more information. EO & PO are on CA, PA, MA, NJ & FL Lists of potential hazardous substances.

*** Section 12 - Ecological Information ***

Persistence and Degradability : No data available
Bioaccumulative Potential : No data available
Mobility in Soil : No data available
Other Adverse Effect : Keep out of waterways.

Ecotoxicity

Product - Ecotoxicity - Aquatic Toxicity

Pimephales Promelas
LC50 >24mg/l
Exposure item: 48-hours
Slightly toxic

Cerio daphnia dubia
LC50 >23mg/l
Exposure item: 48hours
Slightly toxic

Environmental Fate

Not established

*** Section 13 - Disposal Considerations ***

Waste Disposal Methods : Any unused product, waste or cleaned up spill must be absorbed and/or placed into a labeled container and disposed of according to Federal, State or Local procedures under the Resource Conservation Act.

Container Disposal : Triple rinse (or equivalent) any container, then puncture and dispose of in a sanitary landfill or incineration (if allowed by state and local authorities) by burning.



*** Section 14 - Transportation Information ***

Domestic regulation

UN 3082; Class 9; Packing Group III; Labels 9; Marine pollutant, (Nonylphenol ethoxylate)

D.O.T. CFR 172.504 - General placarding requirements: Class 9 placard is not required on —

(1) A transport vehicle or freight container which contains less than 454 kg (1001 pounds) aggregate gross weight of this Class 9 material.

(2) A rail car loaded with transport vehicles or freight containers, none of which is required to be placarded.

International Regulations

Harmonization System Code

Tariff Commodity code : 3824.90.92

IATA-DGR:

UN 3082; Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol ethoxylate); Class 9; Packing group III; Labels 9; Packing Instruction Cargo & Passenger Aircraft 964; Packing Instruction (LQ) Y964

IMDG-Code:

UN 3082; Environmentally hazardous substance, liquid, n.o.s. (Nonylphenol ethoxylate); Class 9; Packing group III; Labels 9; EmS Code F-S, S-F; Marine pollutant (nonylphenol Ethoxylate).

Transport in bulk according to ANNEX II of MARPOL 73/78 and the IBC Code:

Not applicable for product as supplied.

*** Section 15 - Regulatory Information ***

National Fire Protection Classification

Association (NFPA) Rating : Health 1 Fire 0 Reactivity 0

NFPA Rating Level : 0-Minimum; 1-Slight; 2- Moderate; 3-High 3 High; 4-Extreme

HMIS Classification Rating : Health 1 Fire 0 Reactivity 0

HMIS Rating Level : 0-Minimum; 1-Slight; 2- Moderate; 3-High 3 High; 4-Extreme

Notification status:

TSCA; DSL; AICS: Yes – All chemical substances and components are on these lists.

ENCS: No – Not in compliance with the inventory

CH INV: No – The mixture contains a polymer. The monomers for this polymer have been notified.

SARA 304 – This material does not contain any components with a 304 EHS RQ.

SARA 311/312 Hazards – Acute health hazard.

SARA 302 – No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 – No chemicals in this material are subject to reporting requirements of SARA Title III, Section 313.

Clean Air Act – the following chemicals are listed as HAP under the Clean Air Act., Section's 12, 111, and 112: Ethylene oxide (75-21-8), 1,2-Propylene oxide (75-56-9).



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Clean Water Act:

The following Hazardous Substances are listed under the U.S. Clean Water Act Section 311, Tables 115.4A and 117.3: 1,2 Propylene oxide (75-56-9).

Clean Water Act 307 - This product does not contain any toxic pollutants listed under this act.

Sudden Release of Pressure: No

Warning: Trace amounts of residual ethylene oxide (75-21-8) and propylene oxide (75-56-9) may be present in the head space. Ethylene oxide and propylene oxide are on CA, PA, MA, NJ & FL Lists of potential hazardous substances.

Warning: This product may contain ethylene oxide (75-21-8) known in the state of California to cause birth defects and other reproductive harm.

*** Section 16 - Other Information ***

The information provided in this 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 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.

SDS History

This is the original SDS/GHS formatted, May 6, 2015.

This is the end of SDS ID: AP-100