



Safety Data Sheet

No. AP-100

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

Product Name: **HOOK**
Product Use: Multi-Purpose Adjuvant for Herbicides, Fungicides & Insecticides
Manufacture/Supplier: Atlantic-Pacific Agricultural Company, Inc.
Address: 427 Ridge Street
Reno, NV 89509
Company Phone: 941-474-8382
Technical Information: 336-260-3121
Web Site: www.atlantic-pacificag.com
Emergency Phone: Chemtel, Inc., 1-800-255-3924
International Phone Number: ChemTel, Inc., +01=813-248-0585

*** Section 2 - Hazards Identification ***

Classification of the substance or mixture: This product is classified and labeled according to Global Harmonized System (GHS)



Signal word (GHS-07)

WARNING

Classification for this product:

Acute Tox Category 4 - (Oral) 5000 mg/kg
Acute Tox Category 4 - (Dermal) 5050mg/kg
STOT SE 3 H335: May cause respiratory irritation
Skin Corrosion Classification: Category – 3
Eye Damage/Irritation Classification: Category – 2B
Aquatic Chronic Category 3: H412 May cause long lasting effects to aquatic life.

Hazard statements

H302 - Harmful if swallowed
H313 - May be harmful in contact with skin
H320 - Causes eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H412 - May cause long lasting effects to aquatic life.

Precautionary statements

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 – Generally, 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



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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 in accordance with local/regional/national regulations.

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



HEALTH	1
FIRE	0
REACTIVITY	0

HMS (OSHA) Classification Rating :

Health 1 Fire 0 Reactivity 0

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

Hazard(s) not otherwise classified (HNOC): None Known.

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

Chemical Characterization: Mixtures

<u>CAS #</u>	<u>Individual Product Component Hazards</u>	<u>Percent</u>
Proprietary - 1*	*Proprietary Polymerized Surfactant, blend components Eye irrit. 2A; H319	5-10
Proprietary - 2*	*Proprietary Surfactant blend components Skin Irrit. 2; H315 Eye Dam.1; H318; Aquatic Acute 2; H401 & H411	5-10
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1; H304	1-5
64742-94-5	Solvent naphtha (petroleum), heavy aromatic Flam. Liq. 4; H224, STOT SE 3; H336, Asp. Tox. 1; H304, Aquatic Chronic 2; H411, Car. 2, H351, Skin Irrit. 2; H315.	1-4
Proprietary - 3*	*Proprietary Solvent Skin Irrit. 2; H315, Eye irrit. 2B, H320	1-4
91-20-3	*Naphthalene in Solvent naphtha, (petroleum), heavy aromatic Possible animal carcinogen; Skin Irrit. 2	<0.1
Proprietary - 4*	*Proprietary Diluent *Proprietary components are Trade Secret Information and information on those components, if needed by medical authority or regulatory authority are available by calling the emergency number in Section 1 of this SDS	60-80

See Section 2 for HOOK Product Classification Information, Hazard and Precautionary Statements.



***** 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** : Generally the product does not irritate skin. Wash with plenty of soap and water. Remove and wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
- 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.

***** 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** : Mouth respiratory protective device. 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.



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*** 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. Keep away from heat and direct sunlight. Avoid freezing.

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

Additional information about design of technical systems: No further data; See Section 7.

Control Parameters:

Components with occupational exposure limits:

Proprietary – 2: Proprietary Surfactant Blend Components: TWA Short-term value: 10.0 mg/m³

Proprietary – 3: Proprietary Solvent: TLV Long-term value 5mg/m³

Additional Information: The lists were valid during the creation of the SDS were used as basis.

Exposure Controls & Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed:

Keep away from foodstuffs. Beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Store protective clothing separately.

Avoid contact with eyes and skin.

Use tightly sealed goggles.

Use protective gloves.

Avoid breathing of dusts/vapors/mists: Use appropriate breathing apparatus.

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

Form:	Liquid
Odor/Appearance:	Cream to tan colored emulsion, aromatic aroma.
Odor threshold:	Not determined.
Boiling Point:	>100°C (212° F)
Melting point (freezing point):	0°C (32°F)
Vapor Pressure, mm Hg @ 200°C:	0.014mm Hg@25°C.
Vapor Density:	Not determined.
Solubility in water:	Miscible.
Density:	1.01-1.02 g/ml ³ . (8.4 – 8.5 lbs./gal)
Evaporation Rate (butyl acetate=1):	Not determined.
Octanol/Water Partition Coefficient:	Not applicable
pH:	8.0-10.0
Flash Point, °F:	None
Flammable Limits (approx. volume % in air):	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto-Ignition Temperature:	Not applicable.
Decomposition temperature:	Not determined.
Viscosity:	Not determined.
VOC content:	1.4%



**** 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 *****

HOOK Product 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 - STOT SE 3 H335: May cause respiratory irritation

Likely Routes of Entry : Eyes, inhalation – Irritating effect.
Chronic Effects : None currently known.
Other Hazards : None currently known.

Carcinogenic Categories:

Component Carcinogenic effects (IARC)

Group 3: Not classifiable as to its carcinogenicity to humans.

Trade name: HOOK

NPT (National Toxicology Program):

None of the ingredients are listed.

OSHA-CA (Occupational Safety & Health Administration):

None of the ingredients are listed.

Component Toxicity Information;

LD/LC50 values that are relevant for classification:

Proprietary – 2 Component, Proprietary Surfactant blend components:

Oral	LD50	960-3980 mg/kg (rat)
Dermal	LD50	2000-2991 mg/kg (rabbit)
Inhalative	LC50/4h	1.15 mg/l (rat)
	LC50/96 hours	3.8-6.2 mg/l (Pimephales)
	LC50/48 hours	9.3-21.4 mg/l (daphnia)



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Proprietary – 3 Component, Proprietary Solvent:

Oral	LD50	5530 mg/kg (rat) 2200 mg/kg (rabbit) 2200 mg/kg (guinea pig)
Dermal	LD50	5846 ml/kg (mouse) >22500 mg/kg (rabbit)

64742-95-5 Solvent naphtha (petroleum), heavy aromatic

Oral	LD50	>6000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

***** Section 12 - Ecological Information *****

Proprietary – 3 Component: Proprietary Solvent

	: EC50 609.98 mg/l (daphnia)
Persistence and Degradability	: No data available
Bioaccumulative Potential	: No data available
Mobility in Soil	: No data available
Other Adverse Effect	: Keep out of waterways.

HOOK Product Aquatic Toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Available 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

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in Soil: No further relevant information available.

General Notes:

Do not allow product to reach ground water, water course or sewage system. Do not allow product to leak into the ground.

Harmful to aquatic organisms.

Results of PBT and vPvB assessment: Both not applicable.

Other adverse effects: No further relevant information available.



*** 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 ***

UN – Number:

DOT, ADR, ADN, IMDG, IATA: Not Regulated Material

UN-Proper shipping name:

DOT, ADR, ADN, IMDG, IATA: Not Regulated Material

Transport Hazard Class(es):

DOT, ADR, ADN, IMDG, IATA: Not Regulated Material

Packing group:

DOT, ADR, ADN, IMDG, IATA: Not Regulated Material

Environmental hazards: Not applicable

Special precautions for user: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable

UN “Model Regulation”: Not regulated.

HS Tariff Commodity code : 3824.90.9

*** Section 15 – Regulatory Information ***

Notification status:

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

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 – None of the ingredients are listed.

SARA 313 – (Specific toxic chemical listings): None of the ingredients are listed.

SARA 355 – (extremely hazardous substances): None of the ingredients are listed.

California Proposition 65; chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males: None of the ingredients are listed.

Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency): None of the ingredients are listed.

TLV (Threshold Limit Values set by ACGHI): None of the ingredients are listed.

NIOSH-CA (National Institute for Occupational Safety & Health): None of the ingredients are listed.



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GHS Elements:

This product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard Pictogram:



Signal Word: **WARNING**

See Section 2 for Hazard Statements and Precautionary Statements

National Regulations: The product is subject to be classified according with the latest versions of the regulations on hazardous substances.

States Right to Know: Product Component Information (not Mixture Information)

Proprietary*	Polymerized Surfactant, fattyacid blend components Eye irrit. 2A; H319	5-10
Proprietary*	Proprietary Surfactant blend components Skin Irrit. 2; H315 Eye Dam.1; H318; Aquatic Acute 2; H401 & H411	5-10
64742-55-8	Distillates (petroleum), hydrotreated light paraffinic Asp. Tox. 1; H304	1-5
64742-94-5	Solvent naphtha (petroleum), heavy aromatic Flam. Liq. 4; H227, STOT SE 3; H336, Asp. Tox. 1; H304, Aquatic Acute 2; H401, Aquatic Chronic 1; H410	1-4
Proprietary*	Solvent Skin Irrit. 2; H315, Eye irrit. 2B, H320	1-4
91-20-3	*Naphthalene in Solvent naphtha, (petroleum), heavy aromatic Acute Tox. 4; H302, Carc. 2; H351, Aquatic Acute 1; H400, Aquatic chronic 1; H410, M-Factor (Acute): 1.	<0.1
Proprietary*	Diluent *Proprietary*: specific chemical identity (CAS) and/or exact percentage (concentration) of composition has been withheld as a trade secret. Call emergency number in Section 1 if information is needed.	60-90

Chemical Safety Assessment:

A Chemical Safety Assessment has not been carried out.

*** 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. Any questions on the product or its ingredients call the emergency number in Section 2 of this SDS.

SDS History

This is a revised SDS/GHS formatted, 4-12-2016. The Emergency Phone Numbers are updated; the pH is revised; the vapor pressure is added and VOC's were revised.



Abbreviations and Acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
IMDG: International Maritime Code for Dangerous Goods.
IATA: International Air Transport Association.
DOT: US Department of Transportation.
ACGIAH: American Conference of Governmental Industrial Hygienists.
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances.
CAS: Chemical Abstracts Service (Division of the American Chemical Society).
NFPA: National Fire Protection Association (USA).
HMIS: Hazardous Materials Identification System (USA – OSHA).
VOC: Volatile Organic Compounds (USA, EU).
LC50: Lethal concentration, 50 percent.
LD50: Lethal dose, 50 percent.
PBT: Persistent, Bioaccumulative & Toxic.
vPvB: very Persistent and very Bioaccumulative.
Acute Tox. 4: Acute toxicity Hazard Category 4.
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2.
Eye Dam. 1: Serious eye damage/irritation, Hazard Category 1.
Eye Irrit. 2B Serious eye damage/eye irritation, Hazard Category 2B.
Carc. 1B: Carcinogenicity, Hazard Category 1B
Car 2: Carcinogenicity Hazard Category 2.
STOT SE 3: Specific target organ toxicity – Single exposure, Hazard Category 3.
Asp. Tox. 1: Aspiration hazard, Hazard Category 1.
Aquatic Acute 2: Hazardous to the aquatic environment – Acute Hazard Category 2.
Aquatic Chronic 2: Hazardous to the aquatic environment – Chronic Hazard, Category 2.
Aquatic Chronic 3: Hazardous to the aquatic environment – Chronic Hazard, Category 3.

This is the end of SDS ID: AP-100