

Material Safety Data Sheet

Revision Date: 03-05-2013

I. PRODUCT AND COMPANY IDENTIFICATION

Product Name: AIRWORKS 2.0 & AIRWORKS 3.0 – CITRUS GROVE
Product Code:
Company: HOSPECO
26301 CURTISS WRIGHT
PARKWAY
RICHMOND HGTS, OH 44143
Intended use: Liquid Odor Counteractant

II. HAZARDS IDENTIFICATION

Routes of Entry: Skin contact, Eye contact, Inhalation
Target Organs Potentially Affected by Exposure: Kidneys, Eyes, Skin, Nervous System, Respiratory Tract
Chemical Interactions That Change Toxicity: None Known
Medical Conditions Aggravated by Exposure: Kidney disease, Eye disease, Skin disease including eczema and sensitization, Respiratory disease including asthma and bronchitis

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause respiratory irritation.
Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.
Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis.
Ingestion Toxicity: Harmful if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity: None of the substances have been shown to cause cancer in long term animal studies. Not a carcinogen according to NTP, IARC, or OSHA.
Reproductive and Developmental Toxicity: No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
Mutagenicity: No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
Inhalation: Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness.
Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

HMIS Rating: Health: 1 Flammability: 2 Reactivity: 1

III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	%	CAS #	OSHA Exposure Limits
3-Octanol, 3,7-dimethyl-	10 - 30	78-69-3	No PEL established
Oils, orange, sweet	10 - 30	8008-57-9	No PEL established
Isoparaffins	10 - 30	90622-58-5	No PEL established
Decanal	7 - 15	112-31-2	No PEL established

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7-Octen-2-ol, 2,6-dimethyl-	5 - 10	18479-58-8	No PEL established
Stoddard solvent	1 - 5	8052-41-3	500 ppm TWA; 2900 mg/m3 TWA
Butanoic acid, 2-methyl-, ethyl ester	1 - 5	7452-79-1	No PEL established
Naphthalene, 2-methoxy-	1 - 5	93-04-9	No PEL established
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	1 - 5	68039-49-6	No PEL established
Acetic acid, phenylmethyl ester	1 - 5	140-11-4	No PEL established
Benzenemethanol, .alpha.-methyl-, 1-acetate	1 - 5	93-92-5	No PEL established
Butanoic acid, 3-methyl-, ethyl ester	0.5 - 1.5	108-64-5	No PEL established
Octanal	0.5 - 1.5	124-13-0	No PEL established

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

The composition of this product is classified as a trade secret in accordance with CFR 29 1910. 1200 . Ingredients not precisely identified are proprietary or nonhazardous.

IV. FIRST-AID MEASURES

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
Eyes:	Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.
Skin Contact:	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion:	Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this MSDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis.
Notes to Doctor:	No additional first aid information available

V. FIRE FIGHTING MEASURES

Flammability Summary:	Combustible
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards:	Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back. Combustible Liquid. Can form explosive mixtures at temperatures at or above the flash point. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
Fire Fighting Methods and Protection:	Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

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Flash Point °F (Closed Cup): 145 ° F
Autoignition Temperature °F: Not determined
Upper Flammable/Explosive Limit, % in air: 6
Lower Flammable/Explosive Limit, % in air: 1.2

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this MSDS

Methods for Clean-up: No special spill clean-up considerations. Collect and discard in regular trash.

VII. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Mildly irritating material. Avoid unnecessary exposure. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with material, avoid breathing dusts or fumes, use only in a well ventilated area. Wash thoroughly after handling Do not get in eyes, on skin and clothing Ground and bond containers when transferring material "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. Use spark-proof tools and explosion-proof equipment

Storage Technical Measures and Conditions: Store in a cool dry place. Isolate from incompatible materials. Keep container closed when not in use Store in a cool dry place Keep away from heat, sparks, and flame Keep away from sources of ignition

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Ventilation is required to maintain operator exposure below published exposure limits. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits

Respiratory Protection: Respiratory protection will be required when handling this product. Use respirators only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Wear a NIOSH approved respirator if any exposure is possible.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses. Wear goggles and a Face shield

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield

Gloves: No information available

Control Parameters:

Chemical Name	ACGIH TLV-TWA	ACGIH STEL	IDLH
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3-Octanol, 3,7-dimethyl-	No TLV	ND
Oils, orange, sweet	No TLV	ND
Isopariffins	No TLV	ND
Decanal	No TLV	ND
7-Octen-2-ol, 2,6-dimethyl-	No TLV	ND
Stoddard solvent	100 ppm TWA; 525 mg/m3 TWA	ND
Butanoic acid, 2-methyl-, ethyl ester	No TLV	ND
Naphthalene, 2-methoxy-	No TLV	ND
3-Cyclohexene-1-carboxaldehyde, 2,4-dimethyl-	No TLV	ND
Acetic acid, phenylmethyl ester	No TLV	ND
Benzenemethanol, .alpha.-methyl-, 1-acetate	No TLV	ND
Butanoic acid, 3-methyl-, ethyl ester	No TLV	ND
Octanal	No TLV	ND

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Very pale yellow
Odor:	Comparable to Standard
pH:	Not Available
Solubility in Water:	Soluble in water- No
Evaporation Rate:	Not Available
Vapor Density:	> 1
Flash Point °F (Closed Cup):	145 ° F
Boiling Point: °F	Not Available
Melting Point: °F	-72
Specific Gravity:	0.8404

X. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	None known. Contamination Elevated temperatures
Materials to Avoid/Chemical Incompatibility:	Strong oxidizing agents Amines Strong acids Caustics (bases)
Hazardous Decomposition Products:	Carbon dioxide Carbon monoxide

XI. TOXICOLOGICAL INFORMATION

Component Toxicology Data:

Chemical Name	CAS Number	LD50/LC50
No data available		No data available

XII. ECOLOGICAL INFORMATION

Overview: This material is not expected to be harmful to the ecology.

XIII. DISPOSAL CONSIDERATIONS

Waste Description for Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the sole responsibility of the waste generator. As your supplier, we have no control over the management practices or manufacturing processes of

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parties handling or using this material. The information presented here pertains only to the product when used as intended, according to this MSDS. For unused and uncontaminated product, the preferred options include sending to a licensed and permitted incinerator or other thermal destruction device. Various federal, state or provincial agencies may have specific regulations concerning the transportation, handling, storage, use or disposal of this product which may not be covered in this MSDS. The user shall have to review these regulations to ensure full compliance with all applicable regulations.

XIV. TRANSPORTATION INFORMATION

US DOT Ground Shipping Description: Not Restricted
IATA Shipping Description: UN1266, PERFUMERY PRODUCT, 3, PGIII
IMDG Shipping Description: UN1266, PERFUMERY PRODUCT, 3, PGIII

XV. REGULATORY INFORMATION

TSCA Status All components in this product are on the TSCA Inventory.

Chemical Name	CAS #	Regulation	% Range
No 313-listed chemicals in this product		SARA 313	

XVI. ADDITIONAL INFORMATION

Disclaimer: Important: While the descriptions, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you perform an assessment to determine the suitability of the product for your particular purpose prior to use. Nothing herein should be interpreted as a recommendation to infringe existing patents or violate any laws or regulations. No warranties of any kind, either expressed or implied, including fitness for a particular purpose are made regarding the product described. We assume NO responsibility for any injuries resulting from misuse or misapplication of this product or that might be sustained because of inhalation, ingestion, absorption or other contact with this product. In no case shall the descriptions, information, or data provided be considered a part of our terms and conditions of sale. Further, the descriptions, data and information furnished hereunder are given gratis. No obligation or liability for the description, data and information given are assumed. All such being given and accepted at your risk.