



Material Safety Data Sheet

Revision Date

17-Mar-2005

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code QA2275
Product name Air Holcomb Apple Orchard
Recommended Use Deodorizer
Supplier The JI Holcomb Company
 600 Corporate Woods Parkway
 Vernon Hills, IL 60061
 (847) 955-1501
Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
 Flammable. Irritant.

Aggravated Medical Conditions

No information available

Principal Routes of Exposure

Eyes. Ingestion. Inhalation. Skin.

Potential health effects

Eyes May cause slight irritation.
Skin Skin Irritation. Prolonged skin contact may defat the skin and produce dermatitis.
Inhalation Respiratory irritation. Possible asphyxiation.
Ingestion Headache. Nausea. Vomiting. Weakness.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Isopropyl alcohol	67-63-0	1-5
Ethyl alcohol	64-17-5	1-5
Mineral Spirits	64742-47-8	15-40
Propane	74-98-6	5-10
Isobutane	75-28-5	40-70

4. FIRST AID MEASURES

Eye contact Flush with plenty of water for at least 15 minutes. Seek medical attention.
Skin contact Wash area thoroughly with soap and water.
Ingestion Do not induce vomiting. Seek medical attention.
Inhalation Remove to fresh air.

5. FIRE FIGHTING MEASURES

Flash point °C 13
Flash point °F 55
Method Tag closed cup

Autoignition temperature

Autoignition temperature °C 399-422
Autoignition temperature °F 750-791

Flammability Limits (% in Air)

Upper 19
Lower 0.6

Specific Information for Aerosol Products

Flame extension >45 cm
Flashback None

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam.

Extinguishing media which must NOT be used for safety reasons

No information available.

Special protective equipment for firefighters

No information available.

Special Fire-Fighting Procedures

Firefighters should wear NIOSH/MSHA approved (or equivalent) self-contained pressure-demand breathing apparatus and full protective clothing.

Hazardous decomposition products

See Section 10

Fire and Explosion Hazards

Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. Water spray may be ineffective. If water is used, fog nozzles are preferable.

Sensitivity to shock

No information available.

Sensitivity to static discharge

No information available.

6. ACCIDENTAL RELEASE MEASURES**Methods for cleaning up**

Eliminate all sources of ignition. Soak up with inert absorbent material. Avoid using sparking tools. Avoid inhalation of solder fume or dust. Ventilate area to maintain exposure below permissible exposure limits. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs.

7. HANDLING AND STORAGE**Handling**

Keep container cool.

Storage

Keep away from open flames, hot surfaces and sources of ignition. Store in temperatures below 120 degrees F.

NFPA Storage Code

Store as Level 3 Aerosol (NFPA 30B)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure limits**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Isobutane	-	-	-	-
Mineral Spirits	-	-	-	-
Propane	1000 ppm 1800 mg/m ³	-	1000 ppm listed under aliphatic hydrocarbon gases alkane C1-C4	-
Ethyl alcohol	1000 ppm 1900 mg/m ³	-	1000 ppm	-
Isopropyl alcohol	400 ppm 980 mg/m ³	-	200 ppm	400 ppm

Ventilation and Environmental Controls

Use enough ventilation, local exhaust at the work area, or both, to keep below the TLV's in the worker's breathing zone and the general area. Mechanical: as necessary.

Hygiene measures

General industrial hygiene practice.

Respiratory protection

None necessary under normal conditions.

Hand protection

Gloves are not required in normal use.

Eye protection

Safety glasses.

Skin and body protection

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Aerosol
Color	Clear Yellow
Odor	Sweet
Odor Threshold	No information available
pH	No data available
Specific Gravity	0.62-0.66
Boiling point/range °C	78-255
Boiling point/range °F	172-491
Melting point/range °C	No data available
Melting point/range °F	No data available
Flash point °C	13
Flash point °F	55
Vapor pressure	50-60 @ 68F (20C)
Vapor density	> 1 (Air=1)
Evaporation Rate	>1 (Ether =1)
Water solubility	No data available
Partition Coefficient (n-octanol/water)	No data available
VOC Content	70 %

10. STABILITY AND REACTIVITY**Stability**

Stable under normal conditions.

Conditions to avoid

No information available

Materials to avoid

Strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide. Smoke.

Polymerization

Will not occur.

Synergistic Products

No information available.

11. TOXICOLOGICAL INFORMATION**Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Isobutane</i> 75-28-5			57 pph
<i>Ethyl alcohol</i> 64-17-5	7060 mg/kg		20000 ppm 39 g/m ³
<i>Isopropyl alcohol</i> 67-63-0	5045 mg/kg	12800 mg/kg	16000 mg/kg

Potential health effects

Sensitization	No information available.
Chronic toxicity	No information available.
Mutagenic effects	No information available.

Teratogenic effects No information available**Reproductive toxicity** No information available**Target Organ Effects** No information available**Carcinogenic effects**
No information available

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Ethyl alcohol	A4 - Not Classifiable as a Human Carcinogen				
Isopropyl alcohol	A4 - Not Classifiable as a Human Carcinogen	Group 1			Listed

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Ethyl alcohol

Microtox Data

Photobacterium phosphoreum EC50=34634 mg/L (30 min)

Photobacterium phosphoreum EC50=35470 mg/L (5 min)

Isopropyl alcohol

Microtox Data

Photobacterium phosphoreum EC50=35390 mg/L (5 min)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products

Do not puncture or incinerate. Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT Consumer commodity (Isobutane,Propane),ORM-D,

TDG

AEROSOLS(Isobutane,Propane), Class 2.1,UN1950,PG

IMDG/IMO

Aerosols(Isobutane,Propane),UN1950,PG

IATA

Aerosols, flammable(Isobutane,Propane),UN1950

MEX

UN1950 Aerosols(Isobutane,Propane),2.2,

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Isopropyl alcohol	Listed

State Regulations

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Isobutane	Listed	Listed	Not Listed
Mineral Spirits	Not Listed	Not Listed	Not Listed
Propane	Listed	Listed	Not Listed
Ethyl alcohol	Listed	Listed	Developmental
Isopropyl alcohol	Listed	Listed	Not Listed

International Inventories

Chemical Name	EINECS	DSL	NDSL	TSCA
Isobutane	X	X	-	X
Mineral Spirits	X	X	-	X
Propane	X	X	-	X
Ethyl alcohol	X	X	-	X
Isopropyl alcohol	X	X	-	X

CPRC

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

NFPA

HMIS

Health - 2
Flammability - 4
Physical Hazard - 0

Reason for revision

No information available.

Prepared By

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The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.