# SAFETY DATA SHEET

1. Identification

**Product number** 1000023663

AERO-22 3000 VANILLA BEAN 12X1 **Product identifier** 

03-31-2015 **Revision date** 

Vectair Systems Inc. **Company information** 

PO Box 11068

Memphis, TN 38134 United States

1-877-697-7276 Company phone

Version # 02

12-05-2014 Supersedes date

Recommended use AIR FRESHENER

**Recommended restrictions** None known.

2. Hazard(s) identification

Flammable aerosols **Physical hazards** Category 1 **Health hazards** Serious eye damage/eye irritation Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. **Hazard statement** 

**Precautionary statement** 

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wear eye/face protection.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get

medical advice/attention. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from

sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal** 

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name                     | Common name and synonyms | CAS number | %       |
|-----------------------------------|--------------------------|------------|---------|
| Acetone                           |                          | 67-64-1    | 40 - 60 |
| Diethylene Glycol Monoethyl Ether |                          | 111-90-0   | 10 - 20 |
| Propane                           |                          | 74-98-6    | 10 - 20 |

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| Chemical name                  | Common name and synonyms | CAS number | %        |
|--------------------------------|--------------------------|------------|----------|
| Isobutane                      |                          | 75-28-5    | 2.5 - 10 |
| Other components below reporta | ble levels               |            | 2.5 - 10 |

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON Inhalation

CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Powder. Alcohol resistant foam. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

equipment/instructions

Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose

holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Specific methods

Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do

not breathe fumes.

General fire hazards Extremely flammable aerosol.

### 6. Accidental release measures

Personal precautions. protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so.

## 7. Handling and storage

Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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Level 2 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

| US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) |
|---|
|---|

| Components                                | Type `                     | ,<br>Value |  |
|---|----------------------------|------------|--|
| Acetone (CAS 67-64-1)                     | PEL                        | 2400 mg/m3 |  |
|   |                            | 1000 ppm   |  |
| Propane (CAS 74-98-6)                     | PEL                        | 1800 mg/m3 |  |
|   |                            | 1000 ppm   |  |
| US. ACGIH Threshold Limit Value           | es                         |            |  |
| Components                                | Type                       | Value      |  |
| Acetone (CAS 67-64-1)                     | STEL                       | 750 ppm    |  |
|   | TWA                        | 500 ppm    |  |
| Isobutane (CAS 75-28-5)                   | STEL                       | 1000 ppm   |  |
| US. NIOSH: Pocket Guide to Che            | mical Hazards              |            |  |
| Components                                | Type                       | Value      |  |
| Acetone (CAS 67-64-1)                     | TWA                        | 590 mg/m3  |  |
|   |                            | 250 ppm    |  |
| Isobutane (CAS 75-28-5)                   | TWA                        | 1900 mg/m3 |  |
| ,   |                            | 800 ppm    |  |
| Propane (CAS 74-98-6)                     | TWA                        | 1800 mg/m3 |  |
|   |                            | 1000 ppm   |  |
| US. Workplace Environmental Ex            | posure Level (WEEL) Guides |            |  |
| Components                                | Туре                       | Value      |  |
| Diethylene Glycol<br>Monoethyl Ether (CAS | TWA                        | 140 mg/m3  |  |
| 111-90-0)                                 |                            | 25 ppm     |  |

25 ppm

#### **Biological limit values**

# ACGIH Biological Exposure Indices

| Components            | Value   | Determinant | Specimen | Sampling Time |
|-----------------------|---------|-------------|----------|---------------|
| Acetone (CAS 67-64-1) | 50 mg/l | Acetone     | Urine    | *             |

<sup>\* -</sup> For sampling details, please see the source document.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Hand protection

Wear appropriate chemical resistant gloves.

Skin protection

Other Wear suitable protective clothing.

If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an Respiratory protection

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

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## 9. Physical and chemical properties

**Appearance** 

Physical state Gas.
Form Aerosol.
Color Not available.
Odor Not available.
Odor threshold Not available.
PH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

132.89 °F (56.05 °C) estimated

range

Flash point -156.0 °F (-104.4 °C) PROPELLANT estimated

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

1.6 % estimated

(%)

Flammability limit - upper

14.5 % estimated

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 270.48 psig @70F estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Specific gravity 0.737 estimated

10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

**Conditions to avoid**Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Nitrates. Fluorine. Chlorine. Hazardous decomposition No hazardous decomposition products are known.

products

### 11. Toxicological information

Information on likely routes of exposure

**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

**Skin contact**No adverse effects due to skin contact are expected.

**Eye contact** Causes serious eye irritation.

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Symptoms related to the physical, chemical and toxicological characteristics May cause drowsiness and dizziness. Headache. Nausea, vomiting. Irritation of nose and throat. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

**Acute toxicity** Narcotic effects. **Product Species Test Results** AERO-22 3000 VANILLA BEAN 12X1 (CAS Mixture) **Acute** Dermal LD50 Guinea pig 37274.3008 mg/kg, Days estimated 14125.5508 mg/kg, 24 Hours estimated 17.8804 ml/kg, 24 Hours estimated Rabbit 17.7848 ml/kg, 24 Hours estimated Inhalation LC50 Mouse 4417.8569 mg/l, 120 Minutes estimated 185.7143 %, 120 Minutes estimated Rat 3410.7402 mg/l/4h estimated 100.3691 mg/l estimated Oral LD50 Guinea pig 31398.8594 mg/kg estimated Mouse 38101.918 mg/kg estimated Rabbit 35378.9961 mg/kg estimated Rat 8350.2588 mg/kg estimated 3.7275 ml/kg estimated Components **Species Test Results** Acetone (CAS 67-64-1) **Acute** Dermal LD50 Guinea pig > 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours Rabbit > 7426 mg/kg, 24 Hours > 9.4 ml/kg, 24 Hours Inhalation LC50 Rat 55700 ppm, 3 Hours 132 mg/l, 3 Hours 50.1 mg/l Oral LD50 Rat 5800 mg/kg 2.2 ml/kg Diethylene Glycol Monoethyl Ether (CAS 111-90-0) **Acute** Dermal LD50 Guinea pig 5900 mg/kg, Days Rabbit 8500 mg/kg, 2 Hours 8476 mg/kg, 24 Hours 7714 mg/kg Oral LD50 Guinea pig 4970 mg/kg

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6031 mg/kg

Mouse

| Components              | Species | Test Results           |
|-------------------------|---------|------------------------|
|                         | Rabbit  | 5600 mg/kg             |
|                         | Rat     | 5600 mg/kg             |
|                         |         | 5.4 ml/kg              |
| Isobutane (CAS 75-28-5) |         |                        |
| Acute                   |         |                        |
| Inhalation              |         |                        |
| LC50                    | Mouse   | 1237 mg/l, 120 Minutes |
|                         |         | 52 %, 120 Minutes      |
|                         | Rat     | 1355 mg/l              |
| Propane (CAS 74-98-6)   |         |                        |
| Acute                   |         |                        |
| Inhalation              |         |                        |
| LC50                    | Mouse   | 1237 mg/l, 120 Minutes |
|                         |         | 52 %, 120 Minutes      |
|                         | Rat     | 1355 mg/l              |
|                         |         | 658 mg/l/4h            |
|                         |         |                        |

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause drowsiness and dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not likely, due to the form of the product.

Chronic effects Prolonged inhalation may be harmful.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Product             |                 | Species   | Test Results                        |
|---------------------|-----------------|---|-------------------------------------|
| AERO-22 3000 VANIL  | LA BEAN 12X1 (C | AS Mixture)   |                                     |
| Aquatic             |                 |   |                                     |
| Crustacea           | EC50            | Daphnia   | 9666.9727 mg/l, 48 hours estimated  |
| Fish                | LC50            | Fish  | 13495.8955 mg/l, 96 hours estimated |
| Components          |                 | Species   | Test Results                        |
| Acetone (CAS 67-64- | 1)              |   |                                     |
| Aquatic             |                 |   |                                     |
| Crustacea           | EC50            | Water flea (Daphnia magna)                          | 21.6 - 23.9 mg/l, 48 hours          |
| Fish                | LC50            | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 4740 - 6330 mg/l, 96 hours          |
|                     |                 |   |                                     |

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Components Species Test Results

Diethylene Glycol Monoethyl Ether (CAS 111-90-0)

**Aquatic** 

Fish LC50 Bluegill (Lepomis macrochirus) > 10000 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Acetone -0.24
Diethylene Glycol Monoethyl Ether -0.54
Isobutane 2.76
Propane 2.36

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents

under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

**US RCRA Hazardous Waste U List: Reference** 

Acetone (CAS 67-64-1) U002

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Do not re-use empty containers.

# 14. Transport information

DOT

UN number UN1950

**UN proper shipping name** Aerosols, flammable, (each not exceeding 1 L capacity)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisionsN82Packaging exceptions306Packaging non bulkNonePackaging bulkNone

**IATA** 

UN number UN1950

**UN proper shipping name** Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards Yes ERG Code 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Cargo aircraft only Allowed.

Allowed.

Not applicable.

**IMDG** 

**UN number** UN1950 **UN proper shipping name** AEROSOLS

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant Yes EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

DOT



IATA; IMDG



# Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

# 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Acetone (CAS 67-64-1) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Acetone (CAS 67-64-1) 6532

#### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

**DEA Exempt Chemical Mixtures Code Number** 

Acetone (CAS 67-64-1) 6532

### **US state regulations**

#### **US. Massachusetts RTK - Substance List**

Acetone (CAS 67-64-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

# US. New Jersey Worker and Community Right-to-Know Act

Acetone (CAS 67-64-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

## US. Pennsylvania Worker and Community Right-to-Know Law

Acetone (CAS 67-64-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

## US. Rhode Island RTK

Acetone (CAS 67-64-1) Isobutane (CAS 75-28-5) Propane (CAS 74-98-6)

### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### **International Inventories**

Country(s) or regionInventory nameOn inventory (yes/no)\*AustraliaAustralian Inventory of Chemical Substances (AICS)NoCanadaDomestic Substances List (DSL)Yes

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| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | No                     |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |

Europe European List of Notified Chemical Substances (ELINCS) No Inventory of Existing and New Chemical Substances (ENCS) Japan No Korea Existing Chemicals List (ECL) No New Zealand New Zealand Inventory No Philippines No

Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other information, including date of preparation or last revision

12-05-2014 Issue date **Revision date** 03-31-2015

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Disclaimer 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 a 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.

GHS: Classification **Revision Information** 

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Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).