



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 09.12.2013

Version: 3

Revision: 09.12.2013

1 Identification of the substance/mixture and of the company/undertaking

- . **Product identifier**
- . **Trade name: FreshWave® IAQ Air & Surface Spray**
- . **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- . **Application of the substance / the preparation** Odour neutralising agent
- . **Details of the supplier of the safety data sheet**
- . **Manufacturer/Supplier:**
Applied Chemicals International AG
Neubadstrasse 7
CH - 4015 Basel
Tel: +41 (61) 28282-80
Fax: +41 (61) 28282-89
- . **Further information obtainable from:**
Responsible Care Management
karin.pruckmair@acat.com
- . **Emergency telephone number:** Poisons Information Service Munich Tel: +49 (0) 89 19 240 (24h)
- . **Issued:** 14.07.2010

2 Hazards identification

- . **Classification of the substance or mixture**
- . **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.
- . **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- . **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- . **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- . **Label elements**
- . **Labelling according to EU guidelines:**
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
Observe the general safety regulations when handling chemicals.
- . **Special labelling of certain preparations:**
Contains d-limonene, Pine Needle Oil. May produce an allergic reaction.
- . **Other hazards**
- . **Results of PBT and vPvB assessment**
- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

3 Composition/information on ingredients

- . **Chemical characterization: Mixtures**
- . **Description:** Blend of essential oils

Dangerous components:

CAS: 5989-27-5 EINECS: 227-813-5	d-limonene Xi R38; Xi R43; N R50/53 R10 Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	< 0,2%
CAS: 8000-26-8 EINECS: 296-036-1	Pine Needle Oil Xn R65; Xi R43; N R50/53 R10 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	< 0,2%

(Contd. on page 2)

INT

Safety data sheet according to 1907/2006/EC, Article 31

Printing date: 09.12.2013

Version: 3

Revision: 09.12.2013

Trade name: FreshWave® IAQ Air & Surface Spray

(Contd. of page 1)

. **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

. **Description of first aid measures**

. **After inhalation:** Supply fresh air; consult doctor in case of complications.

. **After skin contact:** Precautionary wash with soap and water.

. **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

. **After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult a doctor.

. **Information for doctor:**

. **Most important symptoms and effects, both acute and delayed** No further relevant information available.

. **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Firefighting measures

. **Extinguishing media**

. **Suitable extinguishing agents:**

The product itself does not burn.

CO₂, fire-extinguishing powder, foam

. **Special hazards arising from the substance or mixture** No further relevant information available.

. **Advice for firefighters**

. **Protective equipment:** No special protective equipment required.

. **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

. **Personal precautions, protective equipment and emergency procedures** Not required.

. **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

. **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

. **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

. **Handling:**

. **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.

. **Information about fire - and explosion protection:** No special measures required.

. **Conditions for safe storage, including any incompatibilities**

. **Storage:**

. **Requirements to be met by storerooms and receptacles:** No special requirements.

. **Information about storage in one common storage facility:** Store away from oxidizing agents.

. **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Protect from frost.

. **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

. **Additional information about design of technical facilities:** Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 3)

INT

Safety data sheet according to 1907/2006/EC, Article 31

Printing date: 09.12.2013

Version: 3

Revision: 09.12.2013

Trade name: FreshWave® IAQ Air & Surface Spray

(Contd. of page 2)

. Control parameters
. Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

. Additional information: The lists valid during the making were used as basis.

. Exposure controls
. Personal protective equipment:
. General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.

. Respiratory protection: Not required.

. Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

. Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

. Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

. Eye protection: Goggles recommended during refilling

. Body protection: Light weight protective clothing

9 Physical and chemical properties

. Information on basic physical and chemical properties
. General Information
. Appearance:

Form:	Liquid
Colour:	Whitish
Odour:	Aromatic

. pH-value at 20 °C: 6,4

. Change in condition

Boiling point/Boiling range: 100 °C

. Flash point: nonflammable

. Self-igniting: Product is not selfigniting.

. Danger of explosion: Product does not present an explosion hazard.

. Density: Not determined.

. Solubility in / Miscibility with

water: Fully miscible.

. Other information No further relevant information available.

10 Stability and reactivity

. Reactivity
. Chemical stability
. Thermal decomposition / conditions to be avoided:

Stable. Hazardous polymerization does not occur.
Protect from frost.

. Possibility of hazardous reactions No dangerous reactions known.

. Conditions to avoid No further relevant information available.

. Incompatible materials: strong oxidants.

. Hazardous decomposition products: No dangerous decomposition products known.

— INT —
(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 09.12.2013

Version: 3

Revision: 09.12.2013

Trade name: **FreshWave® IAQ Air & Surface Spray**

(Contd. of page 3)

11 Toxicological information

. Information on toxicological effects

. Acute toxicity:

. LD/LC50 values relevant for classification:

5989-27-5 d-limonene

Oral	LD50	4400 mg/kg (Rat)
------	------	------------------

. Primary irritant effect:

. on the skin: No irritant effect.

. on the eye: No irritating effect.

. Sensitization: Sensitizing effect by skin contact is possible by prolonged exposure.

. Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

. Toxicity

. Aquatic toxicity: No further relevant information available.

. Persistence and degradability No further relevant information available.

. Behaviour in environmental systems:

. Bioaccumulative potential No further relevant information available.

. Mobility in soil No further relevant information available.

. Additional ecological information:

. General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

. Results of PBT and vPvB assessment

. PBT: Not applicable.

. vPvB: Not applicable.

. Other adverse effects No further relevant information available.

13 Disposal considerations

. Waste treatment methods

. Recommendation

Not to be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

. European waste catalogue

07 07 99	wastes not otherwise specified
----------	--------------------------------

. Uncleaned packaging:

. Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

14 Transport information

. UN-Number

. ADR, ADN, IMDG, IATA

Void

. UN proper shipping name

. ADR, ADN, IMDG, IATA

Void

. Transport hazard class(es)

. ADR, ADN, IMDG, IATA

. Class

Void

(Contd. on page 5)

INT

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 09.12.2013

Version: 3

Revision: 09.12.2013

Trade name: FreshWave® IAQ Air & Surface Spray

(Contd. of page 4)

. Packing group	
. ADR, IMDG, IATA	Void
. Environmental hazards:	
. Marine pollutant:	No
. Special precautions for user	Not applicable.
. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
. Transport/Additional information:	Not dangerous according to the above specifications.
. UN "Model Regulation":	-

15 Regulatory information

- . **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. Relevant phrases

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

- R10 Flammable.
- R38 Irritating to skin.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.

- . **Department issuing MSDS:** Responsible Care Management

. Contact:

Ing. Karin Pruckmair
 karin.pruckmair@acat.com
 www.acat.com

. Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 ICAO: International Civil Aviation Organization
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative