

POW Air Freshener - Grapefruit

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

- 1.1 Product Identifier**
 Material name : POW Air Freshener - Grapefruit
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Product use : Aerosol air freshener
- 1.3 Details of the supplier of the safety data sheet**
 Manufacturer/Supplier: IMG Ltd.,
 Unit M
 Riverside Industrial Estate
 Fazeley
 Tamworth
 B78 3RW
- Tel. : 01827 283322
 Fax. : 01827 250143
 Email (for SDSs) : sales@img-limited.co.uk
- 1.4 Emergency tel. no.:** 01827 283322 (Available from 08.30-17.00 hours).

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to 1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation:

Physical and Chemical Hazards	Flam.Aerosol 1; H222; H229
Human health	EUH208
Environment	Aq.Chron.3; H412

2.2 Label elements

Signal word: Danger

Hazard Pictogram(s):



Hazard Statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: may burst if heated.
	H412	Harmful to aquatic life with long lasting effects.

Supplementary Hazard Statements	EUH208	Contains d-Limonene. May produce an allergic reaction.
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Precautionary Statements:	P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P211	Do not spray on an open flame or other ignition source.
	P251	Pressurised container: Do not pierce or burn, even after use.
	P261	Avoid breathing vapour/spray.
	P271	Use only outdoors or in a well-ventilated area.
	P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
	P501	Dispose of contents/container in accordance with national regulations.

2.3 Other hazards In use, may form flammable / explosive vapour-air mixture.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Hazardous components

Chemical Name	CAS No./ EC No./ Reg. No	Classification (1272/2008/EC)	Content
BUTANE	106-97-8 203-448-7 01-2119474691-32	Flam.Gas 1; H220	50-100%
ISOBUTANE	75-28-5 200-857-2 -	Flam Gas 1; H220	10-25%
PROPANE	74-98-6 200-827-9 -	Flam.Gas 1; H220	10-25%
ETHANOL	64-17-5 200-578-6 01-2119457610-43-xxxx	Flam. Liq. 2; H225	2.5-10%
d-LIMONENE	5989-27-5 227-813-5 02-2119494323-37-0000	Flam Liquid 3; H226 Skin Irrit.2; H315 Skin Sens.1; H317 Aq.Acute 1; H400, M = 1 Aq.Chronic 1; H410, M = 1	0-2.5%

See Section 16 for the full text of the R-phrases and H-statements noted above.

(1272/2008/EC: Classification, Labelling and Packaging of Substances and Mixtures (CLP) Regulation).

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: Remove casualty from exposure ensuring one's own safety whilst doing so. Take off any contaminated clothing and shoes/boots immediately. Never give anything by mouth to an unconscious person.

Skin contact: Wash with soap and water. Seek medical advice if irritation develops.

Eye contact: Rinse with water for 10 minutes and seek medical advice if irritation persists.

Ingestion: Rinse mouth with water and give water to drink. Do not induce vomiting. Seek medical advice.

Inhalation: Remove to fresh air. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed: May cause irritation to skin and eyes with prolonged contact.

4.3 Indication of any immediate medical attention and special treatment needed: See skin and eye contact information above.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide; dry chemical powder; alcohol or polymer foam.

Unsuitable extinguishing media: High volume water jet

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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Irritating/toxic fumes may be released at elevated temperatures.

5.3 Advice for fire-fighters:

Special protective equipment: Wear self-contained breathing apparatus. Use personal protective equipment.

Further information: Standard procedure for chemical fires. Use water spray to cool containers.
 Do not allow fire run-off to enter drains.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Use personal protective equipment to deal with spillage.

6.2 Environmental precautions

Contain the spillage using sufficient appropriate absorbent material. Do not discharge into drains or rivers, but if contamination to waterways has occurred, inform local authorities.

6.3 Methods and materials for containment and cleaning up

Wipe up liquid spillage with absorbent material such as sand, earth, or vermiculite, and place in a labelled container for disposal in accordance with local/national regulations.

6.4 References to other sections

See sections 8 and 13 for personal protection and disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Handle with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well ventilated area, below 50°C. Protect from frost, heat and sunlight. Keep away from food, drink and animal feed.

7.3 Specific end use(s)

No information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Chemical name	8hr TWA	15min STEL	Reference
Ethanol	1920 mg/m ³ /1000 ppm	-	EH40/2005
Butane/Isobutane	600ppm	750 ppm	EH40/2005

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DNEL:

DNEL (workers)	Ethanol	Reference
Chronic systemic effects (dermal)	343 mg/kg/day	Manufacturer
Chronic systemic effects (inhalation)	950 mg/m ³	Manufacturer

DNEL (consumers)	Ethanol	Reference
Chronic systemic effects (dermal)	206 mg/kg/day	Manufacturer
Chronic local effects (inhalation)	114 mg/m ³	Manufacturer
Chronic systemic effects (oral)	87 mg/kg/day	Manufacturer

PNEC:

Environment	Ethanol
Aquatic Compartment	
Fresh water	0.96 mg/l
Marine water	0.79 mg/l
Water-intermittent (sporadic) release	2.75 mg/l
Dry Sediment – fresh water	3.6 mg/kg
Dry Sediment – marine water	2.9 mg/kg
Terrestrial Compartment	
Sewage Treatment Plant (STP)	580 mg/kg

8.2 Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Personal protective equipment

Respiratory protection: Given the product usage, unlikely to be necessary.

Hand protection: PVC, Neoprene or Nitrile Rubber gloves approved to EN374 standard; check with glove manufacturer for specific advice. Gloves should only be worn on clean hands. Replace worn gloves. Wash and dry gloves after use.

Eye protection: Given the product usage, unlikely to be necessary.

Skin and body protection: General workwear.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Do not eat or drink whilst using the product. Wash hands before breaks and at the end of the work day. Wash contaminated clothing before re-use.

Environmental exposure controls: Do not discharge into drains or rivers.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State and colour	Aerosol emitting colourless spray.
Odour	Fruity
Odour Threshold	No data available
Flammability	Extremely flammable
Flash point	-40°C
Lower explosion limit	0.8%
Upper explosion limit	19.0%

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9.1 Information on basic physical and chemical properties (continued)

Explosive properties	Not explosive
Thermal decomposition	No data available
Auto-ignition temperature	No data available
Oxidising properties	Non-oxidising
Solubility in water	Miscible
Solubility in other solvents	Soluble in Acetone.
pH	No data available
Melting point/range	No data available
Boiling point/range	No data available
Relative density	0.94 g/cm ³ @ 20°C (of liquid material)
Vapour pressure	No data available
Vapour density	No data available
Partition coefficient: n-octanol/water	No data available
Viscosity (kinematic)	No data available
Evaporation rate	No data available

9.2 Other information No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity	Generally non-reactive.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	None if stored and used as directed.
10.4 Conditions to avoid	None known.
10.5 Incompatible materials	Strong oxidising agents.
10.6 Hazardous decomposition products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical name	Oral (LD50)	Inhalation (LC50)	Dermal (LD50)
Ethanol	>2000 mg/kg (Rat)	>20mg/l (Mouse) 4h	>2000 mg/kg (Rabbit)
d-Limonene	>4300-5500 mg/kg (Rat)	>1000 mg/kg (Mouse)	>5000 mg/kg (Rabbit)

Skin corrosion/irritation:	Ethanol: Not classed as a skin irritant d-Limonene: Irritating to skin.
Serious eye damage/eye irritation:	Ethanol: Not classed as an eye irritant. d-Limonene: May be irritating to eyes.
Respiratory or skin sensitisation:	Ethanol: Not classed as a respiratory irritant or skin sensitiser. d-Limonene: May cause sensitisation in some individuals.
Repeated dose toxicity:	Ethanol: No data available d-Limonene: No data available.
Carcinogenicity:	Ethanol: Not carcinogenic. d-Limonene: Not carcinogenic

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11.1 Information on toxicological effects (continued)

Mutagenicity:	Ethanol: Not mutagenic. d-Limonene: Not mutagenic
Toxicity for reproduction:	Ethanol: Not expected to impair fertility. d-Limonene: Not toxic for reproduction.
Specific target organ toxicity (STOT):	Ethanol: No data available d-Limonene: No data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Chemical name	Species	Test	Value
Ethanol	Daphnia	EC50	>100 mg/l
	Fish	LC50	>100 mg/l
	Algae	EC50	>100 mg/l
d-Limonene	Daphnia	EC50 48h	0.4 mg/l
	Fish	LC50 48h	33 mg/l
	Algae	EC50 72h	4 mg/l

12.2 Persistence and degradability	Ethanol: >70% biodegradable.
12.3 Bioaccumulative potential	Ethanol: No bioaccumulation expected.
12.4 Mobility in soil	Ethanol: No data available.
12.5 Results of PBT and vPvB assessment	Ethanol: Not considered to be PBT or vPvB.
12.6 Other adverse effects	Ethanol: None known.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Dispose of in accordance with local and national regulations.
 Contact licensed waste disposal company. Most aerosols can be recycled.
 Do not pierce or burn or use a cutting torch on the empty aerosol container.

14. TRANSPORT INFORMATION

General Information: The UN number for all aerosols is 1950. Aerosols packed in fibreboard cartons up to 30 kg gross weight, or shrink/stretch wrapped onto trays up to 20 kg gross weight may be transported as Limited Quantities, and should display the following symbol on the pack:



The following information relates to all other aerosols not transported as Limited Quantities:

14.1 UN number:	ADR/RID/ADN; IMDG; ICAO: 1950
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Regulation (EU) 453/2010

14.2 UN proper shipping name: AEROSOLS

14.3 Transport hazard class(es): ADR/RID/ADN Class: 2, 5F

ADR/RID/ADN Class: Class 2, Gases

ADR Label No.: 2.1

IMDG Class: 2

ICAO Class/Division: 2

ICAO Subsidiary risk: 2.1



Transport labels

14.4 Packing Group: ADR/RID/ADN; IMDG; ICAO: Not applicable for aerosols

14.5 Environment hazards: Marine Pollutant: Not applicable for aerosols.

14.6 Special precautions for user: EMS: F-D,S-U
Tunnel restriction code: D

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable for aerosols.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

UK Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2001 No.2677) with amendments.

EU Directives

Regulations (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation EU 453/2010 amending Regulation (EC) No 1907/2006.

Statutory Instruments

The Chemicals (Hazard information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Guidance Notes

Health and Safety Executive Workplace Exposure Limits EH40.

15.2 Chemical Safety Assessment

Chemical Safety Assessments/Reports (CSA/CSR) are not required for mixtures.

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16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals) as amended and Regulation EU 453/2010.

Tariff number: 34029090.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 (CLP):

Physical hazards: On basis of test data/Expert judgement.
Health hazards: Calculation method
Environmental hazards: Calculation method

Full text of H-statements referred to under sections 2 and 3

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H229 Pressurised container: may burst if heated.
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.
H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

Asp: Aspiration (Section 3).
CAS: Chemical Abstract Service (division of the American Chemical Society). {Section 3}.
STOT: Single Target Organ Toxicity (Section 11).
TWA: Time-weighted average. (Section 8).
STEL: Short-term exposure limit. (Section 8).
DNEL: Derived no effect level – a level above which humans should not be exposed. (Section 8).
PNEC: Predicted No Effect Concentration (Section 8).
PBT: Persistent, Bioaccumulative, Toxic. (Section 12).
vPvB: very Persistent and very Bioaccumulative. (Section 12).
EC50: Effective Concentration, 50 percent. (Section 12).
LC50: Lethal Concentration, 50 percent. (Section 11/12).
LD50: Lethal Dose, 50 percent. (Section 11).

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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