



**SAFETY DATA SHEET**  
**INVERTIBLE FLAMMABLE SPRAYDUSTER**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

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**1.1. Product identifier**

**Product name**                                 INVERTIBLE FLAMMABLE SPRAYDUSTER  
**Product number**                             SDU250D, ASDU250D, ZA  
**REACH registration number**

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses**                             Office Equipment Cleaning Product  
**Uses advised against**                     At this moment in time we do not have information on use restrictions. They will be included in this safety data sheet when available

**1.3. Details of the supplier of the safety data sheet**

**Supplier**                                     AF INTERNATIONAL. A division of HK WENTWORTH LTD  
ASHBY PARK  
COALFIELD WAY  
ASHBY de la ZOUCH  
LEICESTERSHIRE. LE65 1JR  
UNITED KINGDOM  
+44 (0) 1530 419600  
+44 (0) 1530 416640  
info@hkw.co.uk

**1.4. Emergency telephone number**

**Emergency telephone**                     +44 (0)1530 419600 between 8.30am - 5.00pm GMT Mon – Fri

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**SECTION 2: Hazards identification**

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**2.1. Classification of the substance or mixture**

**Classification**

**Physical hazards**  
Aerosol 1 - H222, H229

**Health hazards**  
Not Classified

**Environmental hazards**  
Not Classified

**Classification (67/548/EEC or 1999/45/EC)**

F+;R12.

**Human health**

Contact with liquefied gas might cause frostbites, in some cases with tissue damage.

**Physicochemical**

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

**2.2. Label elements**

**Pictogram**

# INVERTIBLE FLAMMABLE SPRAYDUSTER



**Signal word** Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

Contact with liquid may cause cold burns / frostbite.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

1,1,DIFLUOROETHANE R152A <span style="float: right;">60-100%</span>	
CAS number: 75-37-6 EC number: 200-866-1 REACH registration number: 01-2119474440-43-XXXX	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Gas 1 - H220	F+;R12.
Press. Gas, Liquefied - H280	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation**

Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.

**Ingestion**

Do not induce vomiting. Rinse mouth thoroughly with water.

**Skin contact**

Contact with gas may cause frostbite Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact**

Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes and get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

Treat symptomatically

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

## INVERTIBLE FLAMMABLE SPRAYDUSTER

### Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

### 5.2. Special hazards arising from the substance or mixture

#### Specific hazards

Closed containers can burst violently when heated, due to excess pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up.

#### Hazardous combustion products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

#### Protective actions during firefighting

Move containers from fire area if it can be done without risk.

#### Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## SECTION 6: Accidental release measures

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### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

### 6.2. Environmental precautions

#### Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

#### Methods for cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Do not touch or walk into spilled material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion.

### 6.4. Reference to other sections

#### Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

#### Usage precautions

Avoid inhalation of vapours/spray and contact with skin and eyes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage precautions

Store at moderate temperatures in dry, well ventilated area. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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## SECTION 8: Exposure Controls/personal protection

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### 8.1. Control parameters

#### Occupational exposure limits

##### 1,1,DIFLUOROETHANE R152A

Long-term exposure limit (8-hour TWA): 1.000 ppm

## INVERTIBLE FLAMMABLE SPRAYDUSTER

### Ingredient comments

Australian exposure limits are: LT= ES-TWA and ST= ES STEL

DNEL Industry - Inhalation; Long term : 2713 mg/m3  
Consumer - Inhalation; Long term : 675 mg/m3

PNEC Consumer - Fresh water; 0.048 mg/l  
Consumer - Marine water; 0.0048 mg/l  
Consumer - Soil; 0.141 mg/kg

### 1,1,DIFLUOROETHANE R152A (CAS: 75-37-6)

DNEL Workers - Inhalation; Long term systemic effects: 2713 mg/m³  
Consumer - Inhalation; Long term systemic effects: mg/m³

### 8.2. Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke. Do not smoke in work area.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Liquefied Gas

#### Colour

Colourless.

#### Odour

Characteristic. Ether.

#### Melting point

-117°C/-178.6°F

#### Initial boiling point and range

-24.9°C/-12.82°F @

#### Flash point

Not determined.

#### Upper/lower flammability or explosive limits

: 3.7

#### Vapour pressure

516 kPa @ 20°C/68°F

#### Vapour density

1.013

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### Relative density

0.91 @ 25°C/77°F

### Solubility(ies)

Soluble in the following materials: acetone Alcohols. Ether. Slightly soluble in water.

### Auto-ignition temperature

455°C/851°F

## 9.2. Other information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

#### 10.2. Chemical stability

##### Stability

Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

Not available. No potentially hazardous reactions known.

#### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with acids and alkalis.

#### 10.5. Incompatible materials

##### Materials to avoid

Air. Alkali metals. Alkaline earth metals.

#### 10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Hydrogen fluoride (HF). Carbonyl fluoride

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicological effects

##### Other health effects

There is no evidence that the product can cause cancer.

##### Acute toxicity - inhalation

Through vapour accumulation and / or inhalation of large quantities, the product can cause loss of consciousness and cardiac disorders aggravated by stress and lack of oxygen.

##### Carcinogenicity

According to limited data in animals: Absence of carcinogen effects in animals

##### Reproductive toxicity

##### Reproductive toxicity - fertility

Absence of carcinogenic effects in animals (inhalation / rat

##### General information

No specific health hazards known.

##### Inhalation

Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

##### Skin contact

Exposure to rapidly expanding gas or vaporizing liquid may cause frostbite ('cold' burn). Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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### Eye contact

Remove any contact lenses and open eyelids wide apart. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

### Acute and chronic health hazards

Contact with liquid form may cause frostbite.

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## SECTION 12: Ecological Information

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### Ecotoxicity

Not regarded as dangerous for the environment.

#### 12.1. Toxicity

##### Acute toxicity - fish

LC<sub>50</sub>, 96 hours: 295.783 mg/l, Fish

##### Acute toxicity - aquatic invertebrates

EC<sub>50</sub>, 48 hours: 146.695 mg/l, Daphnia magna

##### Acute toxicity - aquatic plants

No information required.

##### Acute toxicity - microorganisms

No information required.

#### 12.2. Persistence and degradability

##### Persistence and degradability

There are no data on the degradability of this product.

#### 12.3. Bioaccumulative potential

No data available on bioaccumulation.

#### 12.4. Mobility in soil

##### Mobility

Mobile.

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

#### 12.6. Other adverse effects

The product contains a substance or substances that will contribute to global warming (greenhouse effect).

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## SECTION 13: Disposal considerations

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#### 13.1. Waste treatment methods

##### General information

Do not puncture or incinerate, even when empty.

##### Disposal methods

Empty containers must not be punctured or incinerated because of the risk of an explosion. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible.

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## SECTION 14: Transport information

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### General

This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1litre packed in cartons of less than 30kg gross to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed must show the following

#### 14.1. UN number

UN No. (ADR/RID) 1950

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UN No. (IMDG) 1950

UN No. (ICAO) 1950

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID) AEROSOLS

Proper shipping name (IMDG) AEROSOLS

Proper shipping name (ICAO) AEROSOLS

Proper shipping name (ADN) AEROSOLS

Proper Shipping Name (DOT)

**14.3. Transport hazard class(es)**

ADR/RID class 2.1

ADR/RID subsidiary risk

ADR/RID label 2.1

IMDG class 2.1

IMDG subsidiary risk

ICAO class/division 2.1

ICAO subsidiary risk

Transport labels



**14.4. Packing group**

Not applicable.

ADR/RID packing group

IMDG packing group

ICAO packing group

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

**14.6. Special precautions for user**

EmS F-D, S-U

Emergency Action Code

Hazard Identification Number (ADR/RID)

Tunnel restriction code (D)

Markings

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not relevant.

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**SECTION 15: Regulatory information**

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

National regulations

## INVERTIBLE FLAMMABLE SPRAYDUSTER

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).

### EU legislation

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended). Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (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 (as amended).

### Guidance

Workplace Exposure Limits EH40.

### Authorisations (Title VII Regulation 1907/2006)

No specific authorisations are known for this product.

### Restrictions (Title VIII Regulation 1907/2006)

No specific restrictions on use are known for this product.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Issued by</b>	Grace Claypole
<b>Revision date</b>	11/03/2015
<b>Revision</b>	3
<b>SDS number</b>	13155
<b>Risk phrases in full</b>	R12 Extremely flammable.
<b>Hazard statements in full</b>	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated

### Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.