

Date of issue: 07.05.2012 Replaces Data Sheet of:

"*)" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

1 Identification of Substance / Preparation and Company**Identification of Substance or Preparation****Trade Name:** ISY Aero Duster 400 ml**Use:** Air pressure cleaning spray**Art. No. / EAN-Code:** ICL3000/4049011100626**Address of the Manufacturer:**

WAREG Verpackungs - GmbH, Lilienthalstraße 55 – 57, 64625 Bensheim, Germany

Telephone: + 49 6251 8450 0, Telefax: + 49 6251 8450 39

Contact Person:

Mr. Neumann; eMail: andy.neumann@wareg-gmbh.de

Address of the supplier:

Imtron GmbH, Wankelstr. 5, 85046 Ingolstadt, Germany

Telephone: + 49 841 634 3003

Responsible:

CHEMCO123® – Chemical Consultancy, graduate chemist, Rosemarie Fechner, ☎ 05254 9575 05

eMail: info@chemco123.de

Emergency - Telephone

Information Centre Specialising

in Symptoms of Poisoning

Telephone: +49 6131 19240 or 2324 66 (with costs)

Emergency - Telephone of

Company / Undertaking

Telephone: +49 6251 8450 50

2 Hazards Identification**For Humans:****Classification:**

R12 - Extremely flammable.

Additional advice:

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

For the Environment:

None.

3 Composition / Information on Ingredients**Chemical Characterisation:**

Aerosol

Dangerous Ingredients:

CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol	R - phrases
74-98-6	601-003-00-5	200-827-9	Propane	25 – 50 %	F+	R12
106-97-8	601-004-00-0	203-448-7	Butane	50 – 75 %	F+	R12
CAS - No.	Index - No.	EC - No.	Material	m% - range	pictogram	H- phrases
74-98-6	601-003-00-5	200-827-9	Propane	25 – 50 %	GHS02; GHS04	H220
106-97-8	601-004-00-0	203-448-7	Butane	50 – 75 %	GHS02, GHS04	H220



Propane / Butane

Danger

Flam. Gas 1, Press. Gas, H220 - Extremely flammable gas.

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Remarks:

Classification and labelling of a product is indicated under item 15.

Exposure Controls / Personal Protection under item 8

R -phrase(s) under item 16

4 First Aid Measures

General advice:

Show this safety data sheet to the doctor in attendance.

Inhalation:

Move to fresh air.

If symptoms persist, call a physician.

Skin Contact:

Wash off with soap and water.

Eye Contact:

Immediately flush eye(s) with plenty of water.

Ingestion:

No hazards resulting from the material as supplied.

Note to Physician:

None.

Special Equipment:

None.

5 Fire Fighting Measures

Suitable Extinguishing Media: Use dry chemical, CO₂, water spray or "alcohol" foam

Extinguishing Media to Avoid: None.

Fire and Explosion Hazards:

In the event of fire the following can be released: carbon oxides

Additional Information: Cool containers / tanks with water spray.

Special Protective Equipment:

Wear positive pressure self-contained breathing apparatus.

Wear full protective clothing.

6 Accidental Release Measures

Personal Precautions:

See Personal Protective Equipment.

Remove all sources of ignition.

Environmental Precautions and Methods for Cleaning up:

No special environmental precautions required. Waste from residues according to 16 05 05

Further Information:

None.

7 Handling and Storage

Handling

Precautions for Safe Handling:

Keep away from sources of ignition - No smoking. Do not inhale aerosol. Avoid contact with skin and eyes.

Ensure adequate ventilation, especially in confined areas.

Vapours are heavier than air and may spread along floors.

Precautions in Case of Fire and Explosion:

Take precautionary measures against static discharges.

Storage

Storage Instructions:

Keep container in a well-ventilated place. Keep away from direct sunlight.

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Keep away from oxidising agents:

Further Information on Storage Conditions:

None.

8 Exposure Controls and Personal Protection**Information on System Design:**

Ensure adequate ventilation, especially in confined areas. Provide personal protective equipment.

Exposure Limits:

CAS / Material	Limit Value according to TRGS 900/ EC Guidline 2000/39:
74-98-6 / Propane	1000 ppm, 1800 mg / m ³
106-97-8 / Butane	1000 ppm, 2400 mg / m ³

Personal Protective Equipment**General Protection and Hygiene:**

Do not inhale aerosol. Avoid contact with skin and eyes. Take off all contaminated clothing immediately. When using do not eat or drink. When using do not smoke.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. Filter A**Hand Protection:**

Excessive exposure: Use protective gloves according to EN 374. (PVA or nitrile butylrubber). Break through time: > 480 Min. Glove thickness: 0,7 mm.

Short time exposure: Use protective gloves according to EN 374. (PVA or nitrile butylrubber). Break through time: > 30 Min. Glove thickness: 0,4 mm. Refer to manufacturer of gloves for detailed information.

Eye Protection:

tightly fitting safety goggles

Skin Protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Lightweight protective clothing.

Further Information:

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9 Physical and Chemical Properties**Appearance****Form:** aerosol**Colour:** colourless**Odour:** mild**Safety Relevant Data**

pH-value, undiluted:	not applicable
Boiling point / Boiling - range (°C):	< 0
Melting point / Melting range (°C):	< 0
Flash point (°C, c.c.):	< 0
Flammability (EC A10/A13):	Extremely flammable
Ignition temperature (°C):	no data available
Autoflammability (EC A16):	not applicable
Oxidising properties:	not applicable
Explosion hazard:	In use, may form flammable/explosive vapour-air mixture.
Explosion limits (Vol.%) lower:	no data available, upper: no data available
Vapour pressure:	no data available
Density (g/ml):	no data available
Solubility (in Water):	insoluble
Partition coefficient, n-Octanol/Water:	no data available
Viscosity:	no data available
Solvent separation test:	not applicable
Solvent content (m %) / VOC:	not applicable
Fat solubility:	not applicable

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Further Data

Thermal decomposition (°C): no data available

Vapour density (Air = 1): > 1

Evaporation rate: no data available

10 Stability and Reactivity

Conditions to Avoid:

Heat, flames and sparks. Do not expose to temperatures above 50 °C.

Materials to Avoid:

None.

Hazardous Decomposition Products:

None.

Further Information:

None.

11 Toxicological Information

Toxicological Tests:

Acute Health Effects:

Inhalation, LC₅₀ rat, (mg/l/4h): no data available

Ingestion, LD₅₀ rat, (mg/kg): no data available

Skin - contact, LD₅₀ rat, (mg/kg): no data available

Irritation (to skin / eye): None.

Sensitisation: None.

Acute Health Effects Butane:

Inhalation, LC₅₀ rat, (g / m³ / 4h): 658

Subacute / Chronic Toxicity:

Carcinogenicity: None.

Mutagenicity: None.

Teratogenicity: None.

Narcotic Effects: Inhalation of vapours in high concentration can cause narcotic effects.

12 Environmental Information

Elimination (Persistence and Degradability):

The product evaporates readily.

Behaviour in Sewage Works:

Mobility and Accumulation Potential:

Does not bioaccumulate

Ecotoxic Effects, Aquatic Toxicity:

None.

Other Ecological Information

COD-Value, mg/g: no data available

BOD₅-Value, mg/g: no data available

AOX-Remarks: Product does not contain any organic halogens

Persistent, bioaccumulative and toxic substances (PBT-substances): None

Very persistent and very bioaccumulative substances (vPvB-substances): None.

13 Disposal Considerations

Residues

Recommendation: D10

Waste - Code - No.: 16 05 05 - gases in pressure containers and discarded chemicals.

In addition comply with the regional authorities.

Safe Handling: See item 7 and 15.

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Recommendation: Wash with suitable cleaner. Otherwise as described under Residues.

Safe Handling: As described under Residues.

14 Transport Information**Transportation by Road or Railway according to ADR/GGVS and RID/GGVE****Remarks:**

Class: 2

Classification: 5F

Packing Group: None

UN-No.: 1950

Transport category (Tunnel restriction code): 2(D)

Instruction Concerning Shipper's Declaration and Packaging:

Volume or Mass	Description of Goods	Risklabel	Packing - Code or marginal
E0			3.5.1.2 (7b)
not more than 1 litre(s) per inner packaging and not more than 30 kg gross weight	UN 1950	n.a.	LQ according to 3.4.6 (7a)
> 1 l	UN 1950 Aerosols, flammable	2.1	P003, LP02

Classification for Transportation by Vessels according to IMDG/GGVSee**Remarks:**

Class: 2

UN-No.: 1950

Packing Group: None.

EmS-Fire / Leak: F-D; S-U**MFAG-Table:** According manual MFAG dated from 01.02.2001**Marine Pollutant:** n.a.**Instruction for Declaration and Labelling:**

(Packing sizes with possible exemptions not considered)

Proper Shipping Name: AEROSOLS**Risk Label:**

Remarks: None.

Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI**Remarks:**

Class: 2.1

UN-No.: 1950

Packing Group: None.

Instruction for Declaration and Labelling:

(Packing sizes with possible exemptions not considered)

Proper Shipping Name: Aerosols, flammable**Risk Label:** Flammable gas

Packing Instructions: Passenger: 203

Cargo: 203

Remarks: None.

15 Regulatory Information**Classification according to directive 1999/45/EC:**

Hazard Identification: Extremely flammable

S-Phrases:

S9 - Keep container in a well-ventilated place.

S16 - Keep away from sources of ignition - No smoking.

S23 - Do not breathe gas spray.

Additional Markings:

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.

Also after use, do not open with force or burn. Do not spray on a naked flame or any other incandescent material.

Keep away from sources of ignition - No smoking. Keep out of reach of children. Use only in well ventilated areas!

Developing vapours may lead in case of insufficient ventilation to explosive or occasionally harmful concentrations.



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Further Information:

The volume of the liquid phase at 50 °C must not exceed 90 % of the net capacity.
(Member States shall apply those provisions as from 29 April 2010).

Further EC – regulations:

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.
Not applicable

16 Other Information

R -phrase(s):

R12 - Extremely flammable.

Further information to work out the Data sheet:

Data of the producer.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible.

They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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