

Safety data sheet
according to 190 7/2006/EC, Article 31

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

- **Product identifier**
- **Trade name:** *PORTA 79-10 Aluminium Spray*
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**
*Coating material
Lacquer*
- **Details of the supplier of the safety data sheet**
- **Supplier:**
- **Metatec Ltd**
- *Metaflux Building
Fitzherbert Road, Farlington, Portsmouth, PO6 1RU
02392 381 382*
- **Further information obtainable from:**
*Sales Department
02392 381 382 fax 02392 380 888 email – admin@metatec-limited.co.uk*
- **Emergency telephone number:**
*Central Phone Number
++49 521 924440*

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 12**



GHS02 flame

Flam. Aerosol 1 H222

Extremely flammable aerosol.

Water-react. 1 H260

In contact with water releases flammable gases which may ignite spontaneously.



GHS08 health hazard

Repr. 2

H361d

Suspected of damaging the unborn child.

STOT RE 2

H373

May cause damage to organs through prolonged or repeated exposure.



GHS09 environment

Aquatic Chronic 2 H411

Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2

H315

Causes skin irritation.

STOT SE 3

H335+H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R63-48/20: Possible risk of harm to the unborn child. Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Xi; Irritant

R3 7/38: Irritating to respiratory system and skin.

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F+; Extremely flammable

R12: Extremely flammable.



R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67: Vapours may cause drowsiness and dizziness.

• **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

Has a narcotizing effect.

• **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 has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

• **Code letter and hazard designation of product:**



Xn Harmful

F+ Extremely flammable

N Dangerous for the environment

• **Hazard-determining components of labelling:**

toluene

• **Risk phrases:**

12 Extremely flammable.

37/38 Irritating to respiratory system and skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

63 Possible risk of harm to the unborn child.

67 Vapours may cause drowsiness and dizziness.

48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

• **Safety phrases:**

23 Do not breathe vapour/spray. 24/25

Avoid contact with skin and eyes.

29/35 Do not empty into drains; dispose of this material and its container in a safe way.

38 In case of insufficient ventilation, wear suitable respiratory equipment.

51 Use only in well-ventilated areas.

• **Special labelling of certain preparations:**

Only for trade users / technical specialists

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking!

Without sufficient ventilation formation of explosive mixtures may be possible.

Keep out of the reach of children

• **Other hazards**

• **Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

• Dangerous components:		
CAS: 64 742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn R65; Xi R37; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335+H336	25-50%
CAS: 106-97-8 EINECS: 203-448-7	butane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	10-25%
CAS: 64 742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light Xn R65; Xi R38; FR11; N R51/53 R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 108-88-3 EINECS: 203-625-9	toluene Xn R48/20-63-65; Xi R38; F R11 R67 Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336	10-25%
CAS: 7429-90-5 EINECS: 231-072-3	aluminium F R11-15 Flam. Sol. 1, H228; Water-react. 2, H261	2.5-10%
CAS: 64 742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy Xn R65; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	" 2.5%
CAS: 75-28-5 EINECS: 200-857-2	isobutane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	" 2.5%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	" 2.5%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene Xn R20; Xi R36/37/38; N R51/53 R10 Flam. Liq. 3, H226; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	" 2.5%

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

4 First aid measures

- **Description of first aid measures**
- **General information:**
Take affected persons out into the fresh air.

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Do not leave affected persons unattended.

- **After inhalation:** *In case of unconsciousness place patient stably in side position for transportation.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *Do not induce vomiting; call for medical help immediately.*

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** *Water with full jet*
- **Advice for firefighters**
- **Protective equipment:** *Wear self-contained respiratory protective device.*
- **Additional information** *Cool endangered receptacles with water spray.*

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*
- **Methods and material for containment and cleaning up:**
*Dispose contaminated material as waste according to item 13.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.*
- **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.
Open and handle receptacle with care.*
- **Information about fire - and explosion protection:** *Keep ignition sources away - Do not smoke.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use. Do not spray onto a naked flame or any incandescent material.*
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
*Store in a cool location.
Observe official regulations on storing packagings with pressurized containers.*
- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:**
*Keep container tightly sealed.
Protect from heat and direct sunlight.*
- **Recommended storage temperature:** *15 - 35°C, max. 50°C*

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8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

• Ingredients with limit values that require monitoring at the workplace:	
106-97-8 butane	
WEL (Great Britain)	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
108-88-3 toluene	
WEL (Great Britain)	Short-term value: 384 mg/m ³ , 100 ppm Long-term value: 191 mg/m ³ , 50 ppm Sk
1330-20-7 xylene	
WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
IOEL V (EU)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
95-63-6 1,2,4-trimethylbenzene	
WEL (Great Britain)	Long-term value: 125 mg/m ³ , 25 ppm IL V
IOELV (EU)	Long-term value: 100 mg/m ³ , 20 ppm

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

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

- **Respiratory protection:**
Not necessary if room is well-ventilated.
Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**



Protective gloves

- **Material of gloves** If contamination is possible, use gloves made of nitrile according EN 374
- **Penetration time of glove material** > 480 min / 0,4 mm thickness
- **Eye protection:**



Tightly sealed goggles

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9 Physical and chemical properties

<ul style="list-style-type: none"> · Information on basic physical and chemical properties · General Information · Appearance: <ul style="list-style-type: none"> Form: Aerosol Colour: Silver-coloured · Odour: Like aromatic solvents 	
<ul style="list-style-type: none"> · Change in condition <ul style="list-style-type: none"> Melting point/Melting range: Undetermined. Boiling point/Boiling range: -44°C 	
<ul style="list-style-type: none"> · Flash point: Not applicable, as aerosol. 	
<ul style="list-style-type: none"> · Ignition temperature: 3 65°C 	
<ul style="list-style-type: none"> · Self-igniting: Product is not selfigniting. 	
<ul style="list-style-type: none"> · Danger of explosion: Hazardous to the formation of explosive mixtures of gas/vapors with air. 	
<ul style="list-style-type: none"> · Explosion limits: <ul style="list-style-type: none"> Lower: 0.7 Vol % Upper: 10.9 Vol % Pressure (20°C) 3,0 - 4,5 bar 	
<ul style="list-style-type: none"> · Density at 20°C: 0.733 g/cm³ 	
<ul style="list-style-type: none"> · Solubility in / Miscibility with water: Not miscible or difficult to mix. 	
<ul style="list-style-type: none"> · Solvent content: <ul style="list-style-type: none"> Organic solvents: 55.3 % 	
<ul style="list-style-type: none"> · Solids content: 9.8 % 	
<ul style="list-style-type: none"> · Other information 	
<ul style="list-style-type: none"> Additional information Vapors are heavier than air. 	

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: Risk of bursting at temperatures >50°C.
- Possibility of hazardous reactions No dangerous reactions known.
- Hazardous decomposition products: No dangerous decomposition products known.
- Additional information: Stable for a storage time of min. 24 months

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:

<ul style="list-style-type: none"> · LD/LC50 values relevant for classification: 		
64 742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	LD50	>6800 mg/kg (rat)
Dermal	LD50	>3400 mg/kg (rab)
Inhalative	LC50/4 h	>10.2 mg/l (rat)
108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat)

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Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
Harmful

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
empty cans: material recycling
filled cans: remove in accordance with local regulations

• European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing dangerous substances
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11 *	waste paint and varnish containing organic solvents or other dangerous substances

- **Un cleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

• **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Hazard label:** 2.1
- **Special marking:** Symbol (fish and tree)
- **UN proper shipping name:** 1950 AEROSOLS
- **Limited quantities (LQ) LQ2**
- **Transport category** 2
- **Tunnel restriction code** D
- **Remarks:** ~~Transportation according to ADR~~
Sole marking: UN 1950 (rhombe)
Entry in the transportation document: Transportation according chapter 3.4 ADR

• **Maritime transport IMDG:**



- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS
- **Air transport ICAO-TI and IATA-DGR:**



- **ICA O/I A TA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable
 - **UN "Model Regulation":** UN1950, AEROSOLS, 2.1
 - **Special precautions for user Warning:** Gases.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

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• **Code letter and hazard designation of product:**



Xn Harmful
F+ Extremely flammable
N Dangerous for the environment

• **Hazard-determining components of labelling:**

toluene

• **Risk phrases:**

12 Extremely flammable.
37/38 Irritating to respiratory system and skin.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
63 Possible risk of harm to the unborn child.
67 Vapours may cause drowsiness and dizziness.
48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

• **Safety phrases:**

23 Do not breathe vapour/spray. 24/25
Avoid contact with skin and eyes.
29/35 Do not empty into drains; dispose of this material and its container in a safe way.
38 In case of insufficient ventilation, wear suitable respiratory equipment.
51 Use only in well-ventilated areas.

• **Special labelling of certain preparations:**

Only for trade users / technical specialists
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking!
Without sufficient ventilation formation of explosive mixtures may be possible.
Keep out of the reach of children

• **National regulations:**

• **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.
Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning women of child-bearing age must be observed.

Class	Share in %
NK	50-100

• **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**

H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H228 Flammable solid.
H261 In contact with water releases flammable gases.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.

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- H335 May cause respiratory irritation.*
- H336 May cause drowsiness or dizziness.*
- H361d Suspected of damaging the unborn child.*
- H373 May cause damage to organs through prolonged or repeated exposure.*
- H411 Toxic to aquatic life with long lasting effects.*
- R10 Flammable.*
- R11 Highly flammable.*
- R12 Extremely flammable.*
- R15 Contact with water liberates extremely flammable gases.*
- R20 Harmful by inhalation.*
- R20/21 Harmful by inhalation and in contact with skin.*
- R36/3 7/38 Irritating to eyes, respiratory system and skin.*
- R3 7 Irritating to respiratory system.*
- R38 Irritating to skin.*
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.*
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- R63 Possible risk of harm to the unborn child.*
- R65 Harmful: may cause lung damage if swallowed.*
- R66 Repeated exposure may cause skin dryness or cracking.*
- R67 Vapours may cause drowsiness and dizziness.*

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

- * **Data compared to the previous version altered.**