

Material Safety Data Sheet (MSDS)

PRS Embleem Remover Spray

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

1.1. Product identifier

Product name PRS Embleem Remover - Badge removal spray
Product number EM04

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

Identified uses Transfer & Emblem Remover

1.3. Details of the supplier of the safety data sheet

Supplier



P.R.S. matten BV
Einsteinweg 3
3208 KK Spijkenisse
Tel. 0031 (0)181 618788
Fax 0031 (0)181 622649
Email: info@prs.nl
www.prs.nl

1.4. Emergency telephone number

England (UK) Emergency telephone +44 (0)1623 490114 (Mon to Fri) 08.30 - 17:30

The Netherlands Emergency telephone 0031 (0)181 618788 (Mon to Fri) 08.30 - 17:30

NVIC tel: 030-2748888 (24 hours per day) - Intended solely to inform doctors in acute poisoning

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Aerosol 1 - H222, H229
Health hazards	Eye Irrit. 2 - H319
Environmental hazards	Not Classified
Classification (67/548/EEC or 1999/45/EC)	F+; R12. Xi; R36
Human health	Vapours and spray/mists in high concentrations are narcotic. See Section 11 for additional information on health hazards.
Environmental	The product is not expected to be hazardous to the environment.
Physicochemical	Containers can burst violently or explode when heated, due to excessive pressure build-up. The product is extremely flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

Pictogram








Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: may burst if heated H319 Causes serious eye irritation.
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. P261 Avoid breathing vapour/spray. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P337+P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Dimethoxymethaan			30-60%
CAS-nummer: 109-87-5	EC-nummer: 203-714-2	Reg.nr: 01-2119664781-31-XXXX	
Classificatie	Flam. Liq. 2 - H225		
1,3-dioxolaan			30-60%
CAS-nummer: 646-06-0	EC-nummer: 211-463-5	Reg.nr: 01-2119490744-29-XXXX	
Classificatie	Flam. Liq. 2 - H225 Eye Irrit. 2 - H319	 	
Aardoliegassen, vloeibaar			10-30%
CAS-nummer: 68476-85-7	EC-nummer: 270-704-2		
Classificatie	Flam. Gas 1 - H220 Press. Persgassen - 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**

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If in doubt, get medical attention promptly.
Ingestion	Rinse mouth thoroughly with water. Remove person to fresh air and keep comfortable for breathing. Get medical attention.
Skin contact	Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

General information	See Section 11 for additional information on health hazards.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable extinguishing media Foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure build-up.

5.3. Advice for firefighters

Protective actions during firefighting. Use water to keep fire exposed containers cool and disperse vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

6.2. Environmental precautions

Environmental precautions Avoid discharge into drains.

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. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Usage precautions	Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Use suitable respiratory protection if ventilation is inadequate.
Advice on general occupational hygiene	Wash promptly with soap and water if skin becomes contaminated. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Protect from freezing and direct sunlight. Store in a dry place. Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame.
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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**8.1. Control parameters**

Occupational exposure limits

DIMETHOXYMETHANELong-term exposure limit (8-hour TWA): WEL 1000 ppm 3160 mg/m³Short-term exposure limit (15-minute): WEL 1250 ppm 3950 mg/m³**PETROLEUM GASES, LIQUEFIED**Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m³Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m³

WEL = Workplace Exposure Limit

DIMETHOXYMETHANE (CAS: 109-87-5)

DNEL Workers - Dermal; Long term systemic effects: 22 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 132 mg/m³
 General population - Oral; Long term systemic effects: 9.6 mg/kg/day
 General population - Inhalation; Long term systemic effects: 39 mg/m³
 General population - Dermal; Long term systemic effects: 5.7 mg/kg/day

PNEC - Fresh water; 14577 mg/l
 - Marine water; 14577 mg/l
 - Sediment (Freshwater); 13135 mg/kg/day
 - Sediment (Marinewater); 13135 mg/kg/day
 - Soil; 46538 mg/kg/day
 - STP; 10000 mg/l

8.2. Exposure controls

Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible.
Hand protection	No specific requirements are anticipated under normal conditions of use.
Other skin and body protection	Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.
Respiratory protection	No specific recommendations. 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	Aerosol.
Colour	Clear.
Odour	Solvents
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	-41 (-41 TO 74.5)°C @
Flash point	-40°C CC (Closed cup).
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 1.6 % Upper flammable/explosive limit: 20.5 %
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	0.83
Solubility(ies)	Slightly soluble in water.
Partition coefficient	No information available.
Auto-ignition temperature	237°C
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Oxidising properties	No information available.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

The product may not be stable under some conditions of storage or use.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None at ambient temperatures.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Inhalation	Vapours in high concentrations are narcotic. Vapours may cause headache, fatigue, dizziness and nausea.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Causes serious eye irritation.
Acute and chronic health hazards	No known chronic or acute health risks.
Route of entry	Skin and/or eye contact

Toxicological information on ingredients.**DIMETHOXYMETHANE**Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	6,950.0
Species	Rat
ATE oral (mg/kg)	6,950.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	5,001.0
Species	Rabbit
ATE dermal (mg/kg)	5,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC ₅₀ vapours mg/l)	15,000.0
Species	Rat
ATE inhalation (vapours mg/l)	15,000.0

1,3-DIOXOLANEAcute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	3,000.0
Species	Rat
ATE oral (mg/kg)	3,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	15,000.0
Species	Rabbit
ATE dermal (mg/kg)	15,000.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC ₅₀ vapours mg/l)	68.4
Species	Rat
ATE inhalation (vapours mg/l)	68.4

SECTION 12: Ecological Information**12.1. Toxicity**

Ecological information on ingredients.

DIMETHOXYMETHANE

Acute toxicity - fish

LC₅₀, 96 hours: 1001 mg/l, Fish

Acute toxicity - aquatic invertebrates

LC₅₀, 48 hours: 1201 mg/l, Daphnia magna**1,3-DIOXOLANE**

Acute toxicity - fish

LC₅₀, 96 hours: >100 mg/l,

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: >772 mg/l, Daphnia magna**12.2. Persistence and degradability**

No data available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No data available

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

None known.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

General information

Dispose of waste product or used containers in accordance with local regulations

Disposal methods

Containers should be thoroughly emptied before disposal because of the risk of an explosion. Do not pierce or burn, even after use.

SECTION 14: Transport information**14.1. UN number**

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS, FLAMMABLE
Proper shipping name(IMDG)	AEROSOLS, FLAMMABLE
Proper shipping name (ICAO)	AEROSOLS, FLAMMABLE
Proper shipping name (ADN)	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1
Transport labels	

**14.4. Packing group**

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2

Tunnel restriction code (D)

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

Not applicable.

SECTION 15: Regulatory information

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

National regulations	The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
EU legislation	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). 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). Council Directive of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers (75/324/EEC) (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision Date	Revision	Supersedes date	SDS number
01.09.2016	1	24.10.2012	4892

Hazard statements in full

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: may burst if heated
- H280 Contains gas under pressure; may explode if heated.
- H319 Causes serious eye irritation.

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.