

Safety data sheet
according SS 586 : Part 3

Date of issue: 31.08.2025

Version number 1

Revision: 21.08.2025

1 Identification

- **Product identifier**
 - **Trade name: RMS1-Spray**
 - **Other means of identification**
 - **Article number: 1-RMS1-Spray**
 - **Relevant identified uses of the substance or mixture and uses advised against**
 - **Product category PC35** Washing and cleaning products (including solvent based products)
 - **Application of the substance / the mixture** Solvent cleaner
 - **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
HOTTINGER BRUEL & KJAER UK LTD
Advanced Manufacturing Park Technology Centre
Brunel Way, Catcliffe, Rotherham
South Yorkshire, S60 5WG
United Kingdom
Phone: +44 (0) 1145 512230
Email: info@uk.hbm.com
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Tel. +49(0)6131 19240
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Gift-Informationszentrum Nord, Göttingen
Poison Information Center, Göttingen
Tel.: +49 (0)551 19240
(German and English only)
- United Kingdom:
National Poisons Information Service
Emergency number: +44 844 892 0111
- Poisons Information Centre of Ireland:
+353 1 837 9964 for medical professionals
+353 1 809 2166 for public inquiries
CHEMTREC: +44 20 3807 3798 (24h emergency call).
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

2 Hazards identification

- **Classification of the substance or mixture**



GHS02 flame

Aerosol 1

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



GHS07

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Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

- **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger

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

isopropyl alcohol

acetone

- **Hazard statements**

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

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 spray.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterisation: Mixtures**

- **Description:** Mixture consisting of the following components.

- **Dangerous components:**

67-63-0	isopropyl alcohol 	25 - 50%
67-64-1	acetone 	25 - 50%

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74-98-6	propane ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas C, H280	2.5 - 10%
75-28-5	Isobutane ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas C, H280	2.5 - 10%
106-97-8	butane, pure ⚠ Flam. Gas 1A, H220; ⚠ Press. Gas C, H280	2.5 - 10%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

- **Description of first aid measures**
- **General information**
Personal protection for the First Aider.
If symptoms occur or in case of doubt consult a doctor.
- **After inhalation**
Supply fresh air; consult doctor in case of symptoms.
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**
Remove contaminated clothing immediately.
Rinse with water.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
Remove contact lenses if possible.
Do not rub eyes dry, the mechanical stress can cause additional cornea damages.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Avoid vomiting.
In case of disorders get medical advice.
- **Most important symptoms and effects, both acute and delayed** Dazed
- **After eye contact:** eye irritation
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
Use fire fighting measures that suit the environment.
Alcohol-resistant foam, extinguishing powder or carbon dioxide. Fight larger fire with water spray.
- **For safety reasons unsuitable extinguishing agents**
Water with a full water jet.
The use of a water jet may cause the fire to spread by splashing the burning product.
- **Special hazards arising from the substance or mixture**
Inhalation of combustion gases may cause serious health hazards.
During incomplete combustion carbon monoxide can be formed.
Formation of flammable mixtures of vapours with air possible.
In case of fire the aerosols bursting can be projected to distance with violence, with risk of propagation of the fire.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

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- **Additional information**
Remove goods in stock from incendiary zone, if possible.
Use water to keep fire exposed containers cool.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **For non-emergency personnel** Avoid contact with the product.
- **For emergency responders** Put on suitable personal protective equipment.
- **Environmental precautions:** Do not allow to enter drainage system, ground/soil and water bodies.
- **Methods and material for containment and cleaning up:** 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 information on disposal.

7 Handling and storage

- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes, skin and clothes.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
- **Handling**
Do not eat, drink or smoke while working.
Avoid direct contact with eyes, skin and clothing.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
Observe official regulations on storing packagings with pressurised 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.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
WEL: workplace exposure limit
OEL: Occupational Exposure Limit

67-63-0 isopropyl alcohol

PEL (Singapore)	Short-term value: 1230 mg/m ³ , 500 ppm Long-term value: 983 mg/m ³ , 400 ppm
WSH (Singapore)	Short-term value: 1230 mg/m ³ , 500 ppm Long-term value: 983 mg/m ³ , 400 ppm

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PEL (Malaysia)	Long-term value: 49 mg/m ³ , 10 ppm
WEL (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
67-64-1 acetone	
PEL (Singapore)	Short-term value: 2380 mg/m ³ , 1000 ppm Long-term value: 1780 mg/m ³ , 750 ppm
WSH (Singapore)	Short-term value: 2380 mg/m ³ , 1000 ppm Long-term value: 1780 mg/m ³ , 750 ppm
PEL (Malaysia)	Long-term value: 1187 mg/m ³ , 500 ppm
WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
74-98-6 propane	
PEL (Malaysia)	Long-term value: 2500 ppm
106-97-8 butane, pure	
PEL (Singapore)	Long-term value: 1900 mg/m ³ , 800 ppm
WSH (Singapore)	Long-term value: 1900 mg/m ³ , 800 ppm
PEL (Malaysia)	Long-term value: 1900 mg/m ³ , 800 ppm
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)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

Wash contaminated clothing before re-use.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

Filter AX.

· **Protection of hands:**



Protective gloves.

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Butyl rubber, BR

Recommended material thickness: 0.3 mm, breakthrough time: 480 min.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety goggles according to EN 166.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

· Physical state	Aerosol
· Colour:	transparent
· Odour:	Solvent-like
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Melting point/freezing point:	Not determined
· Initial boiling point and boiling range:	Not applicable, as aerosol
· Flash point:	Not applicable, as aerosol
· Evaporation rate	Not applicable.
· Inflammability (solid, gaseous)	Not applicable.
· Critical values for explosion:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Vapour density	Not determined.
· Density	Not determined
· Relative density	Not determined.
· Solubility in / Miscibility with	
· Water:	mixable
· Partition coefficient: n-octanol/water:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Decomposition temperature:	Not determined.
· SADT	
· Viscosity:	
· kinematic:	Not determined.
· dynamic:	Not determined.
· Particle characteristics	No further details.

- **Other information**

- **Appearance:**

- **Form:** Aerosol

- **Important information on protection of health and environment, and on safety.**

- **Self-inflammability:** Product is not selfigniting.

- **Explosive properties:** Not determined.

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- **Solvent content:**
- **Organic solvents:** 70.0 %

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
Avoid direct sunlight, heat and ignition sources.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** Protect from direct sunlight.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**

- **LD/LC50 values that are relevant for classification:**

67-63-0 isopropyl alcohol

Oral	LD50	5,840 mg/kg (Rat) (OECD 401)
Dermal	LD50	13,400 mg/kg (rabbit)
Inhalative	LC50	30 mg/l/4h (Rat)

67-64-1 acetone

Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	> 7,426 mg/kg (guinea pig) (21 CFR 191.10) > 7,426 mg/kg (rabbit) (21 CFR 191.10)
Inhalative	LC50	132 mg/l/3h (Rat)

- **Primary irritant effect:**
- **Serious eye damage/irritation** Irritant effect.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant

- **Repeated dose toxicity**

67-64-1 acetone

Oral	NOAEL (90d)	3,100 mg/kg bw/day (Rat) (OECD 408)
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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

67-63-0 isopropyl alcohol

EC50 (static) > 10,000 mg/l/24h (*Daphnia magna*) (OECD202)

LC50 (dynamic) 9,640 mg/l/96h (*Pimephales promelas*) (OECD203)

67-64-1 acetone

EC50 > 10,000 mg/l/24h (*Daphnia magna*)

LC50 (dynamic) 8,120 mg/l/96h (*Pimephales promelas*) (OECD 203)

- **Persistence and degradability** No further relevant information available.

- **Other information:** There are no data available about the preparation.

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

14 Transport information

- **UN-Number**

- **ADR/RID, IMDG, IATA**

UN1950

- **UN proper shipping name**

- **ADR/RID**

1950 AEROSOLS

- **IMDG**

AEROSOLS

- **IATA**

AEROSOLS, flammable

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- **Transport hazard class(es)**

- **ADR/RID**



- **Class** 2.1 5F Gases.
- **Label** 2.1

- **IMDG**



- **Class** 2.1 Gases.
- **Label** 2.1

- **IATA**



- **Class** 2.1 Gases.
Not Restricted.
- **Label** 2.1

- **Packing group**

- **ADR/RID, IMDG, IATA** Void

- **Environmental hazards:** Not applicable.

- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

- **Transport/Additional information:**

- **ADR/RID**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity

- **Transport category** 2

- **Tunnel restriction code** D

- **IMDG**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity

- **Special precautions for user** Warning: Gases.

- **Kemler Number:** -

- **EMS Number:** F-D,S-U

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<ul style="list-style-type: none"> · Stowage Code 	<p>SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.</p>
<ul style="list-style-type: none"> · Segregation Code 	<p>SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>
<ul style="list-style-type: none"> · UN "Model Regulation": 	<p>UN 1950 AEROSOLS, 2.1</p>

15 Regulatory information

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

- **Poisons Act - Schedule 1**

None of the ingredients is listed.

- **Poisons Act - Schedule 2, Group II**

None of the ingredients is listed.

- **Health Products Act - First Schedule - Psychotropic Substances**

None of the ingredients is listed.

- **Chemical safety assessment**

- **Seveso category P3a FLAMMABLE AEROSOLS**

- **Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t**

- **Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t**

- **National regulations**

- **Water hazard class:**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they 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.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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· **Department issuing data specification sheet:**

► **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
 DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
 phone: (+49) 511 42079 - 0, reach@dekra.com.

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· **Kit-Components:**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas C: Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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