1. Identification

Product identifier
RMS1

Details of the supplier of the safety data sheet
Company name: Hottinger Baldwin Messtechnik GmbH
Darmstadt
Street: Im Tiefen See 45
Place: D-64293 Darmstadt
Telephone: +49 (0)6151 803-0
E-mail: info@de.hbm.com
Internet: www.hbm.com
Responsible Department: Customer Care Center CCC +49 6151 803 0

Emergency phone number: +49(0)6131/19240

2. Hazard(s) Identification

Classification of the chemical
Hazard categories:
Flammable liquid: Flam. Liq. 2
Serious eye damage/eye irritation: Eye Irrit. 2
Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:
Highly flammable liquid and vapor
Causes serious eye irritation
May cause drowsiness or dizziness

Label elements
Signal word: Danger
Pictograms: flame; exclamation mark

Hazard statements
Highly flammable liquid and vapor
Causes serious eye irritation
May cause drowsiness or dizziness

Precautionary statements
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Keep away from heat. - No Smoking.
Wear protective gloves/protective clothing/eye protection/face protection.

3. Composition/information on ingredients

Mixtures
Safety Data Sheet

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>25-50%</td>
</tr>
<tr>
<td>67-63-0</td>
<td>propan-2-ol; isopropyl alcohol; isopropanol</td>
<td>25-50%</td>
</tr>
</tbody>
</table>

4. First-aid measures

Description of first aid measures

General information
Position and transport victim on their side. In case of respiratory distress, bring into semi-upright, seated position.

After inhalation
Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After contact with skin
After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing.

After contact with eyes
If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion
Seek medical advice immediately.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media
Carbon dioxide (CO2). Extinguishing powder. Water spray.
In case of major fire and large quantities: Water spray. alcohol resistant foam.

Unsuitable extinguishing media
High power water jet.

Additional information
Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

Environmental precautions
Do not allow to enter into surface water or drains. Explosion hazard.

Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

7. Handling and storage

Precautions for safe handling
Advice on safe handling
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Keep container tightly closed in a cool, well-ventilated place.

Advice on protection against fire and explosion
Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition.
No smoking.

Advice on storage compatibility
Do not store together with: Food and feedingstuffs

8. Exposure controls/personal protection

Control parameters

Exposure limits

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>t/oc</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>1000</td>
<td>2400</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250</td>
<td>590</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td>67-63-0</td>
<td>Isopropyl alcohol</td>
<td>400</td>
<td>980</td>
<td></td>
<td>TWA (8 h)</td>
<td>PEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400</td>
<td>980</td>
<td></td>
<td>TWA (8 h)</td>
<td>REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500</td>
<td>1225</td>
<td></td>
<td>STEL (15 min)</td>
<td>REL</td>
</tr>
</tbody>
</table>

Biological Exposure Indices (BEI-ACGIH)

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Substance</th>
<th>Determinant</th>
<th>Value</th>
<th>Test material</th>
<th>Sampling time</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>2-PROPANOL</td>
<td>Acetone</td>
<td>40 mg/L</td>
<td>urine</td>
<td>End of shift at end of workweek</td>
</tr>
<tr>
<td>67-64-1</td>
<td>ACETONE</td>
<td>Acetone</td>
<td>50 mg/L</td>
<td>urine</td>
<td>End of shift</td>
</tr>
</tbody>
</table>

Exposure controls

Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures
Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

Eye/face protection
Tightly sealed safety glasses.

Hand protection
When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Safety Data Sheet

Respiratory protection
In case of inadequate ventilation wear respiratory protection.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
(gas filtering equipment (EN 1411). : A brown)

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: liquid
Color: colourless
Odor: characteristic

Test method

Changes in the physical state
Initial boiling point and boiling range: 55 °C
Flash point: -19 °C
Lower explosion limits: 2,0 vol. %
Upper explosion limits: 13,0 vol. %
Ignition temperature: 425 °C
Vapor pressure: 247 hPa
(at 20 °C)
Density (at 20 °C): 0,788 g/cm³
Solvent content: 100 %

10. Stability and reactivity

Conditions to avoid
Keep away from heat. Ignition hazard.

11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Components</th>
<th>Method</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-64-1</td>
<td>acetone</td>
<td>LD50</td>
<td>5800 mg/kg</td>
<td>Rat</td>
<td>RTECS</td>
</tr>
<tr>
<td></td>
<td>oral</td>
<td>LD50</td>
<td>20000 mg/kg</td>
<td>Rabbit</td>
<td>IUCLID</td>
</tr>
<tr>
<td></td>
<td>dermal</td>
<td>LC50</td>
<td>76 mg/l</td>
<td>Rat</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
In irritant effect on the skin: Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.

Irritant effect on the eye: Irritant.

Severe effects after repeated or prolonged exposure
Has de-greasing effect on the skin. Frequently or prolonged contact with skin may cause dermal irritation.

Additional information on tests
The classification was carried out according to the calculation method of the Preparations Directive
12. Ecological information

Further information
Do not allow to enter into surface water or drains.

13. Disposal considerations

Waste treatment methods
Advice on disposal
Dispose of waste according to applicable legislation.

Contaminated packaging
Water (with cleaning agent). Completely emptied packages can be recycled.

14. Transport information

Marine transport (IMDG)

UN number: UN1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains Acetone)
Transport hazard class(es): 3
Packing group: II
Hazard label: 3

Limited quantity: 1 L
EnS: F-E, S-E

Air transport (ICAO)

UN number: UN1993
UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (contains Acetone)
Transport hazard class(es): 3
Packing group: II
Hazard label: 3

Limited quantity Passenger: 1 L
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

15. Regulatory information

U.S. Regulations

National regulatory information
SARA Section 304 CERCLA:
Acetone (67-64-1): Reportable quantity = 5,000 (2270) lbs. (kg)
SARA Section 311/312 Hazards:
Acetone (67-64-1): Fire hazard, Immediate (acute) health hazard
Isopropyl alcohol (mfg-strong acid process) (67-63-0): Fire hazard, Immediate (acute) health hazard
SARA Section 313 Toxic release inventory:
Isopropyl alcohol (mfg-strong acid process) (67-63-0): De minimis limit = 1.0 %, Reportable threshold = Standard

State Regulations
Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)
This product contains no chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

<table>
<thead>
<tr>
<th>Revision date:</th>
<th>21.05.2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision No:</td>
<td>5.02</td>
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</table>

Other data
The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)