

US Material Safety Data Sheet JOKER 440 SPRAY

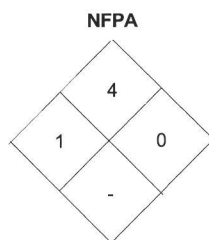
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Company BUCHER AG LANGENTHAL, MOTOREX-Schmiertechnik, CH-4901 Langenthal, Switzerland

1 Commercial product name and supplier

1.1 Commercial product name / Designation **JOKER 440 SPRAY**

37040093



HMIS	
H	1
F	4
R	0
C	-

- 1.2 Application / Use Cleaning, lubrication, anticorrosive
- 1.3 Producer BUCHER AG LANGENTHAL, MOTOREX-Schmiertechnik, CH-4901 Langenthal, Schweiz, T. +41 (0)62 919 7575
- 1.4 Supplier MOTOREX USA, 900 Mendelssohn Ave. N, Golden Valley, MN 55427, USA, +1 763-417-1377
- 1.5 24 Hour Emergency Assistance USA + Canada: 1 800 424 9300 (Chemtrec Chemical Manufacturers Association, Arlington, VA 22209)
- General MSDS Assistance
- 1.6 Product No.

2 Composition

- 2.1 Chemical characterization White spirit (aromatics <25%)
Propane/butane (propellant)
Additives
Synthetic esters
- 2.2 Hazardous components Components contributing to hazard:
- CAS No. 64742-82-1 10-20 % Turpentine substitute (White Spirit), benzene <0.1%
Xn: Harmful. N: Dangerous for the environment. R10: Flammable. R65: Harmful: may cause lung damage if swallowed. R66: Repeated exposure may cause skin dryness or cracking. R67: Vapours may cause drowsiness and dizziness. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
MAK values : 350 mg/m3
- CAS No. 106-97-8 32-40 % Butane
F+: Extremely flammable. R12: Extremely flammable.
MAK values : 1900 mg/m3
- CAS No. 74-98-6 5-10 % Propane
F+: Extremely flammable. R12: Extremely flammable.
MAK values : 1800 mg/m3
- 2.3 Further information

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3 Hazards identification

Extremely flammable.
Can is under pressure. Protect from direct sunlight and temperatures above 50°C (122°F). Do not pierce or burn can after use. Do not spray towards flame or incandescent object.
Keep away from sources of ignition - No smoking. Keep out of the reach of children.

4 First aid measures

No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

4.1 Eye contact

Flush eyes with plenty of water.

4.2 Skin contact

Remove residues with soap and water.

4.3 Ingestion

4.4 Inhalation

Take into fresh air.

4.5 Further information

5 Fire-fighting measures

5.1 Suitable extinguishing media

Carbon dioxide, dry chemical and protein based foam.

5.2 Extinguishing media to avoid

Water spray.

Test method:

5.3 Flash point

Pressurized gas

5.4 Ignition temperature

5.5 Explosion limits

Lower: 2.1 Vol%
Upper: 9.5 Vol% ((1013 mbar))

5.6 Further information

None.

6 Accidental release measures

Spills should be contained by, and covered with suitable absorbent material and removed for disposal.

7 Handling and storage

7.1 Handling

Do not spray towards flame or incandescent object.
Keep away from sources of ignition - No smoking.

7.2 Industrial hygiene

Avoid breathing mists.

7.3 Storage

Protect from direct sunlight and temperatures above 50°C (122°F).
Keep out of the reach of children.

7.4 Place of storage

7.5 Fire- and explosion-protection

Use only if ventilation is good.

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8 Exposure controls / Personal protection

- | | | |
|-------|---------------------------------|---|
| 8.1 | Exposure controls | Good general ventilation should be sufficient for most processing operations. |
| 8.2 | Exposure limit values | None established for the mixture. |
| 8.3 | Occupational exposure controls | |
| 8.3.1 | Respiratory protection | None required. |
| 8.3.2 | Hand protection | None required. |
| 8.3.3 | Eye protection | None required. |
| 8.3.4 | Other | |
| 8.4 | Environmental exposure controls | |
-

9 Physical and chemical properties

- | | | | |
|-----|--------------------------|-------------------------------|--------------|
| 9.1 | Appearance | liquified gas | |
| 9.2 | Colour | colourless to light yellow | |
| 9.3 | Odour | solvent | |
| 9.4 | Change of physical state | | Test method: |
| 9.5 | Density | 0.73 g/cm ³ (20°C) | ASTM D 4052 |
| 9.6 | Vapour pressure | 3200 mbar (20°C) | |
| 9.7 | Viscosity | <1 mm ² /s (40°C) | DIN 51562-1 |
| 9.8 | Solubility
in water | insoluble | |
| 9.9 | pH | not applicable | |

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9.10 Further information

Part. coeff. n-octanol/water
Evaporat. rate

10 Stability and reactivity

- | | |
|---------------------------------------|--|
| 10.1 Thermal decomposition | Stable under recommended storage conditions. |
| 10.2 Hazardous decomposition products | None under normal conditions of storage and use. |
| 10.3 Conditions / materials to avoid | No hazards known. |
| 10.4 Further information | |

11 Toxicological information

- | | |
|----------------------------------|--------------------------------|
| 11.1 Acute toxicity | No relevant information found. |
| 11.2 Subacute / Chronic toxicity | |
| 11.3 Further information | |

12 Ecological information

- | | |
|------------------------------------|--|
| 12.1 Ecotoxicity | Water Hazard Class (Germany): Class 2 (self assessment):
hazardous for water. |
| 12.2 Mobility | |
| 12.3 Persistence and degradability | |
| 12.4 Bioaccumulative potential | |
| 12.5 Further information | |

13 Disposal considerations

Comply with local and national regulations.

14 Transport information

- | | | | | |
|------------------------|----------------------|---------------------|---------------|---|
| 14.1 Transport at land | ADR | 2 | RID | 2 |
| | UN Number | 1950 | Kemler Number | |
| | Packing Group | | | |
| | Proper shipping name | AEROSOLS | | |
| 14.2 Transport at sea | ADNR | | IMDG | 2 |
| | UN Number | 1950 | | |
| | EMS | F-D, S-U | MFAG | |
| | Packing Group | | | |
| | Proper shipping name | Aerosols, flammable | | |
| | Marine pollutant | | | |

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14.3	Air transport	ICAO / IATA-DGR	2.1
		UN Number	1950
		Proper shipping name	Aerosols, flammable
		Subsidiary Risk	
		Labels	Flammable gas
		Packing Group	
	Passenger airplane	Packing Instructions	Y203
		max.	30 kg G
	Cargo Airplane	Packing Instructions	203
		max.	75 kg

14.4 Further information

The product is classified for transportation.
U.S. DOT hazard classification: ORM-D. Carton must bear ORM-D marking and orientation arrows.

15 Regulatory information

This product requires classification according to the criteria of the EC and the "Gefahrstoffverordnung".

15.1 National regulations

15.2 NFPA Storage

15.3 Further information

16 Other information

No other information.

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications do not have the meaning of guarantees on properties.

