



SAFETY DATA SHEET

DRY MOLY SPRAY

Page 1
Issued: 29/05/2008
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: DRY MOLY SPRAY
Use of substance / preparation: Dry film lubricant.
Company name: ROCOL
ROCOL House
Swillington
Leeds
West Yorkshire
LS26 8BS
ENGLAND
Tel: +44 (0) 113 232 2700
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2. HAZARDS IDENTIFICATION

Main hazards: Extremely flammable. Irritating to eyes. Vapours may cause drowsiness and dizziness.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: HYDROCARBON AEROSOL PROPELLANT (<0.1% 1,3-BUTADIENE) >60%
EINECS: 270-704-2 CAS: 68476-85-7
[F+] R12

- ACETONE 15-30%
EINECS: 200-662-2 CAS: 67-64-1
[F] R11; [Xi] R36; [-] R66; [-] R67
- XYLENE 1-5%
EINECS: 215-535-7 CAS: 1330-20-7
[-] R10; [Xn] R20/21; [Xi] R38

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.
Eye contact: There may be irritation and redness. The eyes may water profusely.
Ingestion: There may be soreness and redness of the mouth and throat. May cause dizziness.
Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Do not use water. Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.

Exposure hazards: Extremely flammable. Forms explosive air-vapour mixture. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

[cont...]

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition.
- Environmental precautions:** Do not discharge into drains or rivers.
- Clean-up procedures:** Do not use equipment in clean-up procedure which may produce sparks. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. HANDLING AND STORAGE

- Handling requirements:** Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking is forbidden.
- Storage conditions:** Store in cool, well ventilated area. Keep away from sources of ignition. Keep away from direct sunlight. Ensure lighting and electrical equipment are not a source of ignition.
- Suitable packaging:** Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Hazardous ingredients:** HYDROCARBON AEROSOL PROPELLANT (<0.1% 1,3-BUTADIENE)
WEL (8 hr TWA): 600ppm 1430mg/m WEL (15 min STEL): 750ppm 1780mg/m
- ACETONE
WEL (8 hr TWA): 1210 mg/m³ WEL (15 min STEL): 3620 mg/m³
- Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.
- Respiratory protection:** Respiratory protection not normally required.
- Hand protection:** Protective gloves.
- Eye protection:** Safety glasses with side-shields.
- Skin protection:** Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

- State:** Aerosol
- Colour:** Black
- Odour:** Sweet-smelling
- Evaporation rate:** Fast
- Oxidising:** Non-oxidising (by EC criteria)
- Solubility in water:** Soluble
- Viscosity:** Non-viscous
- Boiling point/range°C:** < 0
- Melting point/range°C:** < -130
- Flammability limits %: lower:** 1.8
- upper:** 9.4
- Flash point°C:** < -100
- Autoflammability°C:** 430
- Vapour pressure:** > 210
- Relative density:** < 1

10. STABILITY AND REACTIVITY

- Stability:** Stable under normal conditions.
- Conditions to avoid:** Direct sunlight. Heat. Sources of ignition.
- Materials to avoid:** Strong oxidising agents. Strong reducing agents.
- Haz. decomp. products:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

11. TOXICOLOGICAL INFORMATION

- Hazardous ingredients:** ACETONE
IVN RAT LD50 5500 mg/kg
ORL MUS LD50 3 gm/kg
ORL RAT LD50 5800 mg/kg

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. ECOLOGICAL INFORMATION

Mobility: Highly volatile. Soluble in water.

Persistence and degradability: Only slightly biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

ADR / RID

UN no: 1950

ADR Class: 2

Classification code: 5F

Shipping name: AEROSOLS

Labelling: 2.1



IMDG / IMO

UN no: 1950

Class: 2

EmS: F-D,S-U

Marine pollutant: .

Labelling: 2.1

IATA / ICAO

UN no: 1950

Class: 2

Labelling: 2.1

15. REGULATORY INFORMATION

Hazard symbols: Extremely flammable.
Irritant.



Risk phrases: R12: Extremely flammable.

R36: Irritating to eyes.

R67: Vapours may cause drowsiness and dizziness.

Safety phrases: S16: Keep away from sources of ignition - No smoking.

S25: Avoid contact with eyes.

S23: Do not breathe spray.

S51: Use only in well-ventilated areas.

Precautionary phrases: 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. Keep out of the reach of children.

Haz. ingredients (label): ACETONE

Note: The regulatory information given above only indicates the principal regulations specifically

applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: EC Directive 1999/45/EC relating to the classification, packaging and labelling of dangerous preparations.
 EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations.
 EC Directive 94/1/EC adapting some technicalities of Council Directive 75/324/EEC on the approximation of the laws of Member States relating to aerosol dispensers.

Risk phrases used in s.3: R12: Extremely flammable.
 R11: Highly flammable.
 R36: Irritating to eyes.
 R66: Repeated exposure may cause skin dryness or cracking.
 R67: Vapours may cause drowsiness and dizziness.
 R10: Flammable.
 R20/21: Harmful by inhalation and in contact with skin.
 R38: Irritating to skin.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.