

706-6235

SAFETY DATA SHEET Ref. No. 18105

**1. PRODUCT AND COMPANY IDENTIFICATION**

Trade Name	ROCOL TUFGEAR SPRAY
Manufacturer/Supplier	ROCOL Limited
Address	ROCOL House,
	Swillington, Leeds,
	LS26 8BS,
	ENGLAND
Phone Number	+44 (0) 113 2322700
Fax Number	+44 (0) 113 2322760
Emergency Phone Number	+44 (0) 113 2322600

**2. COMPOSITION/INFORMATION ON THE COMPONENTS****Hazardous Components in Product for EC**

Component Name	Codes	Concentration	R Phrases	Classification
ISOPARAFFINIC HYDROCARBON (<0.1% W/W BENZENE)	90622-56-3	10.00 - 30.00	R11, R65	F, Xn
HYDROCARBON AEROSOL PROPELLANT (<0.1% 1,3 BUTADIENE)	68476-85-7	50.00 - 70.00	R12	F+
SOLVENT REFINED MINERAL OIL	064742-01-4	1.00 - 10.00		
R11	R11 Highly flammable.			
R12	R12 Extremely flammable.			
R65	R65 Harmful: may cause lung damage if swallowed.			
F	F - Highly flammable			
F+	F+ - Extremely flammable			
Xn	Xn - Harmful			

**3. HAZARD IDENTIFICATION**

Main Hazards	Extremely flammable.
Health Effects - Eyes	Liquid may cause slight transient irritation.
Health Effects - Skin	Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
Health Effects - Ingestion	Swallowing may have the following effects:- nausea. drowsiness.
Health Effects - Inhalation	Exposure to vapour at high concentrations may have the following effects:- drowsiness.

**4. FIRST AID MEASURES**

First Aid - Eyes	Wash out eye with plenty of water. Obtain medical attention if soreness or redness persists.
First Aid - Skin	Wash skin with soap and water. Apply a reconditioning skin cream.
First Aid - Ingestion	Wash out mouth with water. Do not induce vomiting.
First Aid - Inhalation	Remove from exposure.

**5. FIRE FIGHTING MEASURES**

Extinguishing Media	Keep containers and surroundings cool with water spray. Use foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	Do not use water jet.
Special Hazards of Product	Containers may explode in heat of fire. This product may give rise to hazardous fumes in a fire.
Protective Equipment for Fire-Fighting	Wear self contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Eliminate all sources of ignition. Ventilate the area. Material can create slippery conditions underfoot.
<b>Environmental Precautions</b>	Try to prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.
<b>Spillages</b>	Allow to evaporate if it is safe to do so or contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Use in well ventilated area.
<b>Storage</b>	Storage temperature should be kept below 50 °C. Storage area should be: out of direct sunlight.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Standards</b>	An exposure limit of 280ppm (1200mg/m <sup>3</sup> ) 8h TWA is recommended.
<b>ISOPARAFFINIC HYDROCARBON (&lt;0.1% W/W BENZENE)</b>	Occupational exposure standards for significant components are:
<b>HYDROCARBON AEROSOL PROPELLANT (&lt;0.1% 1,3 BUTADIENE)</b>	UK EH40: OES 1750mg/m <sup>3</sup> 8h TWA. UK EH40: OES 2180mg/m <sup>3</sup> 15min TWA. (LPG)
	UK EH40: OES 1450mg/m <sup>3</sup> 8h TWA. UK EH40: OES 1810mg/m <sup>3</sup> 15min TWA. (Butane)
<b>OIL MIST, MINERAL Engineering Control Measures</b>	The minimal atmospheric oxygen concentration should be 18% by volume under normal atmospheric pressure. UK EH40: OES 5mg/m <sup>3</sup> 8h TWA. UK EH40: OES 10mg/m <sup>3</sup> 15min TWA. Exposure to this material may be controlled in a number of ways. The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure. Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
<b>Respiratory Protection</b>	Respiratory protection if there is a risk of exposure to high vapour concentrations.
<b>Hand Protection</b>	Use a good quality barrier cream.
<b>Eye Protection</b>	Chemical goggles if there is a risk of eye contact.
<b>Body Protection</b>	Normal work wear.
<b>Protection During Application</b>	During application, adequate ventilation must be provided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid.
<b>Colour</b>	Black.
<b>Odour</b>	Characteristic.
<b>Boiling Range/Point (°C)</b>	Boils above 90.
<b>Flash Point (PMCC) (°C)</b>	<0 (based on major component)
<b>Explosion Limits (%)</b>	Not determined.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Insoluble.
<b>Vapour Pressure (mm.Hg./20 °C)</b>	Not determined.
<b>Density (kg/m<sup>3</sup>)</b>	0.65. (measured as kg/litre)
<b>Auto-flammability (°C)</b>	Above 200.
<b>Viscosity (cSt)</b>	Mobile liquid at ambient temperatures.
<b>Vapour Density (Air = 1)</b>	Heavier than air.
<b>Evaporation Rate</b>	>1 (referenced as n-butyl acetate = 1)

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Temperatures in excess of 50 °C. Exposure to direct sunlight.
<b>Materials to Avoid</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Combustion will generate: smoke, possibly thick and choking, resulting in zero visibility.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Toxicity</b>	Low order of acute toxicity.
-----------------------	------------------------------

## 12. ECOLOGICAL INFORMATION

<b>Mobility</b>	The product is volatile/gaseous and will partition to the air phase. If released to water the product will float.
-----------------	---

<b>Persistence/Degradability</b>	The product is expected to be resistant to biodegradation.
<b>Bio-accumulation</b>	Product is not expected to bioaccumulate.

## 13. DISPOSAL

<b>Container Disposal</b>	Plastic caps and empty aerosols may be recycled via appropriate routes. Empty aerosols may be disposed of by authorised landfill. Do not incinerate closed containers.
---------------------------	--

## 14. TRANSPORT INFORMATION

UN Number	1950
UN Proper Shipping Name	Aerosols
UN Class	2.1
ADR/RID - Class	2
ADR/RID - Item No.	5°F
IMDG - Proper Shipping Name	Aerosols
IMDG - Class	2.1
IMDG - Page No.	2102
IMDG - Ems Number	2-13
IMDG - MFAG Table Number	620
IATA - Proper Shipping Name	Aerosols 30
IATA - Class	2.1
Tremcard No. TEC(R)	20G26

## 15. REGULATORY INFORMATION

### Labelling Information



Extremely flammable

#### R phrases

R12 Extremely flammable.

#### S phrases

S16 Keep away from sources of ignition - No Smoking.

S51 Use only in well ventilated areas. S23 Do not breathe spray.

S2 Keep out of reach of children.

## 16. OTHER INFORMATION

MSDS first issued	22 August 1997
MSDS data revised	24 December 1997
Product Use	For industrial use only. Lubricant.
Revisions Highlighted	Composition/Information on the Components

#### Footnote

Transport Information  
COMPLETELY REVISED 8/97

## 17. NATIONAL LEGISLATION

#### EC Legislation

EC Directive 91/155/EEC defining the laying down and detailed arrangements for the system of specific information relating to dangerous preparations.

EC Directive 88/379/EEC relating to the classification, packaging and labelling of dangerous preparations.

#### UK Guidance Publications

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. EH40, Occupational Exposure Limits, HSE. Revised Annually.

CHIP 97 Guidance on Regulations (ISBN 0-7176-1366-6) page 39 para.155 - reference application of the aspiration hazard (R65) to aerosols.

Approved Supply List (Third Edition)(ISBN 0-7176-1116-7) Introduction, page xiv et seq - Notes H & L apply to the complex oil derived constituents of this preparation.

To the best of our knowledge, the information contained herein is accurate. Although certain hazards may be described we cannot predict that these are the only hazards, or combination of hazards, that may exist in a workplace. This MSDS, therefore, forms a component only of a risk assessment carried out by, or on behalf of, the user.