

Material Safety Data Sheet: (RL 91/155/EWG)

Date: 14.01.2011

1. Substance and Manufacturer Identification:

Trade Name: **Microgliss D/4**
Material Type: Mixture of mineraloil with neatsfootoil

Company: The Swatch Group R&D Ltd.
Division Moebius
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CH-4452 Itingen
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2. Composition:

Substance: **Composition:**
CAS-Nr.: None
Chemical Characteristics: Mixture of paraffinic hydrocarbons with natural esters and EP-Additive
Additifs: < 1 % 2,6-Di-tert.-butyl-4-methylphenole
p.p'.-Dioctyldiphenylamine
Bariumsulfonate-mixture
Molybdenum-di-octyl-dithiophosphate
VI improver, Polyacrylate

3. Possible Hazards:

The product, when properly handled and stored, according to the good working and hygienic practices, is not dangerous for the human health and nature.

4. First Aid Measures:

Inhalation: Move to fresh air
Skin contact: Wash off with soap and water
Eye contact: Rinse thoroughly with water. Obtain medical attention if adverse symptoms arise.
Ingestion: Do not induce vomiting. Keep respiratory tracts clear. Affected persons are to be calmed down and consult a physician at once.

5. Fire Fighting Measures:

Suitable extinguishers: CO₂, foam, dry chemical
Unsuitable extinguishers: Water jet
Special hazards: none
Special protective equipment: For firemen positive pressure self-contained breathing apparatus.
Further Measures: Do not allow spillage to enter drains and watercourse.

Product: Microgliss D/4**6. Accidental Release Measures:**

Personel Protection:	Avoid skin and eye contact
Environmental precautions:	Avoid pollution of drains and watercourse
Cleaning Measures:	Collect with oil absorbent (e.g.sand) and dispose in the manner prescribed by Federal, State and Local regulations. Remains and small amounts of the product have to be removed with water and cleaning agent (slippery floor).

7. Handling and Storage:

Handling:	No special protection measurements necessary.
Storage:	Store in original closed container at 16 - 22 °C

8. Exposure Controls / Personal Protection:

Technical Protection:	No special measures necessary
Exposure Limits:	None
Personel Protective Equipment:	
Breathing protection:	not necessary
Skin protection:	not necessary
Eye protection:	not necessary
Body protection:	not necessary
Further information:	please follow the usual hygienic measures

9. Physical and Chemical Properties:

Appearance: liquid	Colour: brown-green	Odour: poor
		Tested after:
Boiling point:	> 200 °C	DIN 51 751
Pour point:	< - 19 °C	ISO 3016
Flash point:	> 200	DIN 51 755
Fire point:	NA	DIN 51 794
Explosion limit:		
lower	NA	
upper	NA	
Vapor pressure (20 °C):	< 0.01 mbar	
Density (20 °C):	0.888 g/cm ³	DIN 51 757
Solubility 20 °C (in H₂O):	not soluble	
pH-value:	NA	
Viscosity (20 °C):	370 mm ² /s	DIN 51 562

Product: Microgliss D/4**10. Stability and Reactivity:**

<i>Thermal Decomposition:</i>	None at proper usage.
<i>Conditions to avoid:</i>	High temperatures, naked flames
<i>Substances to avoid:</i>	Strong oxidising agents
<i>Dangerous Decomposition products:</i>	Not to be expected
<i>Dangerous Reactions:</i>	None at proper usage.

11. Toxicological Information:

<i>Acute Oral Toxicity (LD 50):</i>	> 5'000 mg/kg (rat)
<i>Primary Skin irritation:</i>	Moderate (rabbit)
<i>Primary Eye irritation:</i>	Moderate (rabbit)
<i>Skin sensitivity:</i>	not sensibilising
<i>Further information:</i>	Cancerogenic effects are not known

12. Ecological Information:

<i>Acute Fishtoxicity:</i>	Not determined
<i>Bioaccumulation:</i>	Not to be expected
<i>Biological Decomposition:</i>	Slow
<i>Water hazard class:</i>	1, poor danger for water (self estimation)

13. Disposal Considerations:

<i>Product:</i>	Dispose off in a manner prescribed in Federal, State and Local regulations.
<i>Packing:</i>	Uncleaned packing to be disposed like the product.
<i>Waste disposal code:</i>	54113 Machine- and Turbineoil, free of PCB

14. Transport Information:

<i>UN-Nr.:</i>	-----
<i>RID / ADR:</i>	not classified
<i>GGVSee / IMDG-Code:</i>	not classified
<i>ICAO / IATA-DGR:</i>	not classified
<i>Further Information:</i>	This product is not dangerous

15. Regulatory Information:

<i>Classification after European guidelines:</i>	Not dangerous
<i>Hazard Symbol:</i>	Not required
<i>Risk phrases:</i>	None
<i>Safety phrases:</i>	S 2: Keep away from children S 3: Keep in a cool place S 8: Keep container dry S 15: Keep away from heat

Product: Microgliss D/4

16. Other Informations:

The recommendations given in this material safety data sheet are put together from actual tests (if available), comparisons with similar products as well as informations on different products or components bought from other manufacturers.

The information given here refers only to the mentioned product. These informations are not accurate, if the product is beeing used together with other materials or in a working process. This report corresponds to our knowledge and experience at the given date. However, we do not give any warranty for faultlessness, reliability and completeness.