



# DM220

## SAFETY DATA SHEET

GB 13690-2009 and GB/T 16483-2008

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**  
GHS Product Identifier Not applicable.  
Chemical Name Not applicable.  
Trade name DM220 Oil  
CAS No. Mixture  
EINECS No. Mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
Identified use(s) Mineral Oil Bearing Lubricant  
Uses advised against None.
- 1.3 Details of the supplier of the safety data sheet**  
Company Identification Permawick Company  
3110 Permawick Drive  
Columbus, IN, 47201 U.S.A.  
Telephone +1 (812) 376-0703  
Fax +1 (812) 372-1410  
E-Mail (competent person) sales@permawick.com  
Only Representative Experien Chemical Services (Europe) Limited  
PO Box 170  
Thirsk YO7 9AN UK  
Telephone +44 7791 573385 (UK 9am to 5pm)
- 1.4 Emergency telephone number**  
Emergency Phone No. Monday - Friday, 8 am – 4:30 p.m. (EST) (812) 376-0703  
CHEMTREC 24 hr. +1 (703) 527-3887 (Collect call accepted)

### SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**  
GB 13690-2009 . Not Classified as dangerous
- 2.2 Label elements**  
Hazard Symbol None  
Signal word(s) None  
Hazard statement(s) None  
Precautionary statement(s) None.
- 2.3 Other hazards** Not classified as PBT or vPvB.
- 2.4 Additional Information** May produce an allergic reaction in persons already sensitised.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Mixtures

Regulation (EC) No. 1272/2008 (CLP).

Hazardous ingredient(s)	%W/W	CAS#	Hazard Statement
Highly refined mineral oil*	60 - 100	64742-65-0	Not Classified
alkylated diphenylamines	0.1 – 0.5	118-82-1	Aquatic Chronic4; H413

\* Contains less than 3% DMSO extractable as measured by IP 346 method.

See Section 16 for the full text of the R-phrases declared above.

See Section 16 for the full text of the H statements declared above.

**3.3 Additional Information** - Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below. **None**

For full text of H/P phrases see section 16.

#### SECTION 4: FIRST AID MEASURES



**4.1 Description of first aid measures**

Inhalation	Unlikely to be required but if necessary treat symptomatically.
Skin Contact	Wash affected skin with soap and water.
Eye Contact	Eyes should be washed with plenty of water. If symptoms occur obtain medical attention.
Ingestion	Do not induce vomiting. Seek medical treatment.

**4.2 Most important symptoms and effects, both acute and delayed** None

**4.3 Indication of the immediate medical attention and special treatment needed** None

#### SECTION 5: FIRE-FIGHTING MEASURES

**5.1 Extinguishing media**

-Suitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide.
-Unsuitable Extinguishing Media	None anticipated.

**5.2 Special hazards arising from the substance or mixture** This product may give rise to hazardous fumes in a fire.

**5.3 Advice for fire-fighters** A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures** Avoid skin contact. Avoid contact with eyes.

**6.2 Environmental precautions** Use appropriate container to avoid environmental contamination.

**6.3 Methods and material for containment and cleaning up** Contain and cover spilled substance with dry sand or earth or other suitable dry material. Transfer to a container for disposal or recovery.

**6.4 Reference to other sections** None

**6.5 Additional Information** None.

#### SECTION 7: HANDLING AND STORAGE

**7.1 Precautions for safe handling** Avoid skin contact. Avoid contact with eyes.

**7.2 Conditions for safe storage, including any incompatibilities**

-Storage Temperature	Store at room temperature.
-Incompatible materials	Strong oxidising agents.

**7.3 Specific end use(s)** Mineral Bearing Lubricant

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters**

## 8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note:
None known	-----	-----	-----	-----	-----	-----

Limit value type (country of origin)	SUBSTANCE.	CAS No.	Biological limit value	Note:
None known	-----	-----	-----	-----

8.1.2 Recommended monitoring method Not available

## 8.2 Exposure controls

8.2.1 Appropriate engineering controls Not normally required.

### 8.2.2 Personal protection equipment

Eye/face protection



Safety spectacles.

Skin protection (Hand protection/ Other)



Not normally required.

Respiratory protection



Not normally required.

Thermal hazards

Not normally required.

8.2.3 Environmental Exposure Controls Not normally required.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour.	Clear / Amber.
Odour	Mild petroleum
Odour threshold (ppm)	Not available
pH (Value)	Not available
Melting point (°C) / Freezing point (°C)	Not available
Boiling point/boiling range (°C):	Not determined.
Flash point (°C)	180 [Open cup]
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Explosive limit ranges	Not applicable
Vapour pressure (Pascal)	Not available
Vapour density (Air=1)	Not available
Density (g/ml)	0.859
Solubility (Water)	Insoluble.
Solubility (Other)	Not available
Partition coefficient (n-Octanol/water)	Not available
Auto ignition point (°C)	Not available
Decomposition temperature (°C)	Not available
Kinematic Viscosity (cSt) @ 40°C	220 at 40° C
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2 Other information

Not available.

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable.
<b>10.3 Possibility of hazardous reactions</b>	None anticipated.
<b>10.4 Conditions to avoid</b>	None
<b>10.5 Incompatible materials</b>	Oxidizers
<b>10.6 Hazardous Decomposition Product(s)</b>	Carbon monoxide, Carbon dioxide

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

Not applicable

#### 11.1.2 Mixtures - By analogy with similar materials:

Acute toxicity	Oral: >5000 mg/kg Dermal: >5000 mg/kg
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Unlikely to cause eye irritation.
Respiratory or skin sensitization	Not to be expected.
Germ cell mutagenicity	Not to be expected.
Carcinogenicity	Not to be expected.
Reproductive toxicity	Not to be expected.
STOT - single exposure	Not to be expected.
STOT - repeated exposure	Not to be expected.
Aspiration hazard	May be fatal if swallowed and enters airways.

#### 11.1.3 Substances in preparations / mixtures

Highly refined mineral oil* (CAS No. 68037-01-4)	
Acute toxicity	Oral LD50 > 5000 mg/kg (rat) Inhalation LC50: LC50 > 5.2 mg/l (4 hour(s)) (rat) Dermal: LD50 > 3000 mg/kg (rabbit)
Skin corrosion/irritation	Unlikely to cause skin irritation.
Serious eye damage/irritation	Unlikely to cause eye irritation.
Respiratory or skin sensitization	Not to be expected.
Germ cell mutagenicity	Not to be expected.
Carcinogenicity	Not to be expected.
Reproductive toxicity	Not to be expected.
STOT - single exposure	Not to be expected.
STOT - repeated exposure	Not to be expected. Oral NOAEL = 1000 mg/kg (rat)
Aspiration hazard	May be fatal if swallowed and enters airways.

#### 11.2 Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Substances in preparations / mixtures

Highly refined mineral oil\* (CAS No. 68037-01-4)

Short term	LL50 > 1000 mg/l (96 hour) (O. mykiss) EL50 > 1000 mg/l (48 hour) (D. magna) EL50 > 1000 mg/l (72 hour) (S. capricornutum)
Long Term	NOELR = 125 mg/l (D. magna) (21 days)

#### 12.2 Persistence and degradability

Not readily biodegradable.

#### 12.3 Bioaccumulative potential

Not available

#### 12.4 Mobility in soil

No data



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12.5 Results of PBT and vPvB assessment  
12.6 Other adverse effects

Not classified as PBT or vPvB.  
None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

13.2 Additional Information None known.

## SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number			
Proper Shipping Name		Not classified as dangerous for transport.	
Transport hazard class(es)			
Packing group			
Environmental hazards			
Special precautions for user			

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

## SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

15.1.1 EU regulations	Listed
Regulation (EC) 2037/2000 - Dangerous to the ozone layer.	No.
Regulation (EC) 850/2004 - Persistent Organic Pollutants	No.
Regulation (EC) 689/2008 - Export/Import of Dangerous Chemicals	No.
Regulation (EC) 1907/2006 - REACH Authorisations and/or restrictions on use	No.
15.1.2 National regulations	Not established.
German Water Classification / Wassergefährdungsklasse (Germany)	1
Inventory Status: China	All Chemicals listed
Catalog of Hazardous Chemicals in China (2002)	None
15.2 Chemical Safety Assessment	Not applicable

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 2, 3, 11, 16

Indicates information that has changed from previously issued version.

[Abbreviations and acronyms](#) ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

[Procedure used to derive the classification according to Regulation \(EC\) No. 1272/2008 \[CLP/GHS\]](#)

[Classification Justification](#)

Aquatic Chronic 4, H413 Expert judgment

[Full text of abbreviated H statements](#)

[Full text of classifications \[CLP/GHS\]](#)

H413: May cause long-lasting harmful effects to aquatic life



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**Training advice:** None.

**Additional Information:** None.

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