



420-NP20W-840

SAFETY DATA SHEET

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP)

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 420-NP20W-840
CAS No. Mixture
EINECS No. Mixture
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified use(s) Mineral 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**
Regulation (EC) No. 1272/2008 (CLP). Not classified as dangerous for supply/use.
- 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** None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

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

| Hazardous ingredient(s) | %W/W | EC No. and CAS# | According to Regulation (EC) No. 1272/2008 (CLP) |
|---|----------|-------------------------|--|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic * ^ | 80 - 100 | 265-169-7 64742-65-0 | Not classified. |
| Natural fiber | 15 - 20 | 9004-34-6 | |
| Zinc alkyldithiophosphate | 0.5 -0.9 | 68649-42-3 | |
| Diphenylamine | 0.1 0.4 | 122-39-4 | |

| | | | |
|---|----------|--------------|--|
| Molybdenum Polysulfide Alky dithiocarbamide complex | 0.4 -0.8 | Trade secret | |
|---|----------|--------------|--|

* Contains less than 3% DMSO extractable as measured by IP 346 method. Notes H and L apply. ^ Not yet subject to REACH registration.

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 | Unlikely to be required but if necessary treat symptomatically. |

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) Synthetic 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 ³) | STEL (ppm) | STEL (mg/m ³) | 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 | Fibrous |
| Colour. | Brown to gray |
| Odour | Petroleum oil-like. |
| Odour threshold (ppm) | Not available |
| pH (Value) | Not available |
| Melting point (°C) / Freezing point (°C) | Not available |
| Boiling point/boiling range (°C): | Not available |
| Flash point (°C) | 220 [Cleveland Open cup] |
| Evaporation rate | Not available |
| Flammability (solid, gas) | Not available |
| Explosive limit ranges | Not available |
| Vapour pressure (Pascal) | Not available |



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| | |
|---|----------------|
| Vapour density (Air=1) | Not available |
| Density (g/ml) | 0.867 |
| Solubility (Water) | Negligible. |
| 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 | 89 |
| Explosive properties | Not explosive. |
| Oxidising properties | Not oxidising. |
| 9.2 Other information | Not available. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|--|---|
| 10.1 Reactivity | Stable under normal conditions. |
| 10.2 Chemical stability | Stable. |
| 10.3 Possibility of hazardous reactions | None anticipated. |
| 10.4 Conditions to avoid | None |
| 10.5 Incompatible materials | Oxidizers |
| 10.6 Hazardous Decomposition Product(s) | Carbon monoxide, Carbon dioxide, Nitrogen, phosphorous oxides, hydrogen sulphide, mecaptans |

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 | Not to be expected. |
| 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 | Not to be expected. |
| 11.1.3 Substances in preparations / mixtures | |
| <u>Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)</u> | |
| Acute toxicity | LD50 > 5000 mg/kg (rat) LC50 = 2.18 mg/l (4 hour(s)) (rat) LD50 > 2000 mg/kg (rabbit) |
| Skin corrosion/irritation | Non-irritant. |
| Serious eye damage/irritation | Non-irritant. |
| Respiratory or skin sensitization | It is not a skin sensitiser. |
| Germ cell mutagenicity | Negative |
| Carcinogenicity | Negative |
| Reproductive toxicity | Not to be expected. |
| STOT - single exposure | Not to be expected. |
| STOT - repeated exposure | Not to be expected. |
| Aspiration hazard | Not applicable |
| 11.2 Other information | None known. |

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity



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Substances in preparations / mixtures

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS No. 64742-65-0)

| | |
|---|--|
| Acute toxicity | NOEL \geq 100 mg/l (96 hour) (<i>P. promelas</i>) NOEL \geq 10,000 mg/l (96 hour) (<i>G. pulex</i>) |
| Long Term | NOEL \geq 100 mg/l (72 hour) (<i>P. subcapitata</i>) NOEL = 10 mg/l (21 days) (<i>D. magna</i>) |
| 12.2 Persistence and degradability | There is evidence of degradation in soil and water. |
| 12.3 Bioaccumulative potential | The substance has low potential for bioaccumulation. |
| 12.4 Mobility in soil | The product has low mobility in soil. |
| 12.5 Results of PBT and vPvB assessment | Not classified as PBT or vPvB. |
| 12.6 Other adverse effects | 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 <u>(ADR/RID)</u> | Sea transport <u>(IMDG)</u> | Air transport <u>(ICAO/IATA)</u> |
|------------------------------|------------------------------------|--|-------------------------------------|
| 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. |
| 15.2 Chemical Safety Assessment | Not applicable |

SECTION 16: OTHER INFORMATION

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

Hazard statement(s) and Precautionary statement(s):

- Not applicable

GHS Classification

- Not classified as dangerous for supply/use.

Training advice: None.

Additional Information: None.

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