1. IDENTIFICATION

GHS Product Identifier
ROCOL SAPPHIRE SILICONE GREASE

Company Name
ITW POLYMERS & FLUIDS (ABN 63 004 235 063)

Address
100 Hassall Street Wetherill Park
NSW AUSTRALIA

Telephone/Fax Number
Tel: 1800 063 511; +61 2 9757 8800
Fax: 1800 803 596; +61 2 9757 3855

Emergency phone number
1800 385 556 / 0438 465 960

E-mail Address
info@itwpf.com.au

Recommended use of the chemical and restrictions on use
Lubricant.

Additional Information
Website: www.itwpf.com.au

Other Names and Product Identifiers: ROCOL MX22 Grease

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture
Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Precautionary Statement(s)
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

Other Information
Classification of the substance or mixture:
NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

Classification: Not Applicable
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicone oil</td>
<td>Various</td>
<td>&gt;60 %</td>
</tr>
<tr>
<td>Performance additive</td>
<td>Not Available</td>
<td>&lt;10 %</td>
</tr>
</tbody>
</table>

Other Information

Synonyms: Not Available

Substances:
See section below for composition of Mixtures

NOTE: Manufacturer has supplied full ingredient information to allow assessment.

4. FIRST-AID MEASURES

Inhalation
If fumes or combustion products are inhaled remove from contaminated area.
Lay patient down. Keep warm and rested.
Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
Transport to hospital, or doctor.

Ingestion
If swallowed do NOT induce vomiting.
If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
Observe the patient carefully.
Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
Seek medical advice.

Skin
If skin contact occurs:
Immediately remove all contaminated clothing, including footwear.
Flush skin and hair with running water (and soap if available).
Seek medical attention in event of irritation.
If failure/misuse of high pressure/hydraulic equipment results in injection of grease/oil through the skin seek urgent medical attention. Treat as surgical emergency.

Eye contact
If this product comes in contact with the eyes:
Wash out immediately with fresh running water.
Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
Seek medical attention without delay; if pain persists or recurs seek medical attention.
Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Indication of immediate medical attention and special treatment needed if necessary
Treat symptomatically.
5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam.
Dry chemical powder.
BCF (where regulations permit).
Carbon dioxide.

Specific Methods
Alert Fire Brigade and tell them location and nature of hazard.
Wear breathing apparatus plus protective gloves.
Prevent, by any means available, spillage from entering drains or water course.
Use water delivered as a fine spray to control fire and cool adjacent area.

Specific Hazards Arising From The Chemical
Fire Incompatibility: Avoid contamination with strong oxidising agents as ignition may result

Fire/Explosion Hazard:
Combustible.
Slight fire hazard when exposed to heat or flame.
Heating may cause expansion or decomposition leading to violent rupture of containers.
On combustion, may emit toxic fumes of carbon monoxide (CO).
High temperature decomposition products include silicon dioxide, small amounts of formaldehyde, formic acid, acetic acid and traces of silicon polymers.
These gases may ignite and, depending on circumstances, may cause the resin/polymer to ignite.
An outer skin of silica may also form. Extinguishing of fire, beneath the skin, may be difficult.

Hazchem Code
Not Applicable

Decomposition Temperature
Not Available

6. ACCIDENTAL RELEASE MEASURES

Clean-up Methods - Small Spillages
Clean up all spills immediately.
Slippery when spilt.
Avoid contact with skin and eyes.
Wipe up and absorb small quantities with vermiculite or other absorbent material.
Place in suitable containers for disposal.

Clean-up Methods - Large Spillages
Slippery when spilt.
Minor hazard.
Clear area of personnel.
Alert Fire Brigade and tell them location and nature of hazard.
Control personal contact with the substance, by using protective equipment as required.

Other Information
Personal Protective Equipment advice is contained in Section 8 - Exposure controls/personal protection of the SDS.
7. HANDLING AND STORAGE

Precautions for Safe Handling
Safe handling:
Limit all unnecessary personal contact.
Wear protective clothing when risk of exposure occurs.
Use in a well-ventilated area.
When handling DO NOT eat, drink or smoke.

Other information:
Store in original containers.
Keep containers securely sealed.
No smoking, naked lights or ignition sources.
Store in a cool, dry, well-ventilated area.
Store between 0 and 40 °C.

Conditions for safe storage, including any incompatibilities
Suitable container:
Metal can or drum
Packaging as recommended by manufacturer.
Check all containers are clearly labelled and free from leaks.

Storage incompatibility: Avoid storage with oxidisers

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values
INGREDIENT DATA:
Not Available

EMERGENCY LIMITS
Ingredient: Rocol Sapphire Silicone Grease
Material name: Not Available
TEEL-1: Not Available
TEEL-2: Not Available
TEEL-3: Not Available

Ingredient: silicone oil
Original IDLH: Not Available
Revised IDLH: Not Available

Ingredient: performance additive
Original IDLH: Not Available
Revised IDLH: Not Available

Appropriate Engineering Controls
None under normal operating conditions.

Respiratory Protection

Eye Protection
No special equipment for minor exposure i.e. when handling small quantities.
OTHERWISE:
Safety glasses with side shields.
Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.

Hand Protection
No special equipment needed when handling small quantities.
OTHERWISE: Wear chemical protective gloves, e.g. PVC.
**Personal Protective Equipment**

Other protection:
No special equipment needed when handling small quantities.

**OTHERWISE:**
Overall.
Barrier cream.
Eyewash unit.

**Thermal Hazards**
Not Available

**Body Protection**
See Hand protection below
See Other protection below

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form**
Grease

**Appearance**
White grease; does not mix with water.

**Odour**
Not Available

**Decomposition Temperature**
Not Available

**Solubility in Water**
Immiscible

**pH**
Not Available (as supplied)
Not Applicable as a solution (1%)

**Vapour Pressure**
Negligible.

**Vapour Density (Air=1)**
Not available.

**Evaporation Rate**
Not Available

**Physical State**
Non Slump Paste

**Odour Threshold**
Not Available

**Viscosity**
Not Available

**Volatile Component**
Not Available

**Partition Coefficient: n-octanol/water**
Not Available

**Surface tension**
Not Available

**Flash Point**
>150 °C

**Flammability**
Not Applicable
Auto-Ignition Temperature
480 °C approx.

Explosion Limit - Upper
Not available.

Explosion Limit - Lower
Not available.

Explosion Properties
Not Available

Molecular Weight
Not Applicable

Oxidising Properties
Not Available

Initial boiling point and boiling range
>250 °C (degrades).

Relative density
Not Available (Water = 1)

Melting/Freezing Point
<-50 °C

Other Information
Taste: Not Available
Gas group: Not Available
VOC g/L: Not Available

10. STABILITY AND REACTIVITY

Reactivity
See section 7 - HANDLING AND STORAGE

Chemical Stability
Unstable in the presence of incompatible materials.
Product is considered stable.
Hazardous polymerisation will not occur.

Conditions to Avoid
See section 7 - HANDLING AND STORAGE

Incompatible materials
See section 7 - HANDLING AND STORAGE

Hazardous Decomposition Products
See section 5 - FIRE FIGHTING MEASURES

Possibility of hazardous reactions
See section 7 - HANDLING AND STORAGE

11. TOXICOLOGICAL INFORMATION

Toxicology Information
Rocol Sapphire Silicone Grease
TOXICITY: Not Available
IRRITATION: Not Available

silicone oil
TOXICITY: Not Available
IRRITATION: Not Available

Legend: 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2.* Value obtained from manufacturer’s SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances
SILICONE OIL:
Siloxanes may impair liver and hormonal function, as well as the lung and kidney. They have not been found to be irritating to the skin and eyes. They may potentially cause cancer (tumours of the womb in females) and may cause impaired fertility or infertility. No significant acute toxicological data identified in literature search.

Acute Toxicity: Data Not Available to make classification

**Ingestion**
Considered to be non toxic. Ingestion may result in nausea, abdominal irritation, pain and diarrhoea.

**Inhalation**
Not normally a hazard due to non-volatile nature of product. Inhalation of vapour is more likely at higher than normal temperatures.

**Skin**
The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.

**Eye**
Although the liquid is not thought to be an irritant (as classified by EC Directives), direct contact with the eye may produce transient discomfort characterised by tearing or conjunctival redness (as with windburn).

**Skin corrosion/irritation**
Data Not Available to make classification

**Serious eye damage/irritation**
Data Not Available to make classification

**Mutagenicity**
Data Not Available to make classification

**Respiratory sensitisation**
Data Not Available to make classification

**Carcinogenicity**
Data Not Available to make classification

**Reproductive Toxicity**
Data Not Available to make classification

**STOT-single exposure**
Data Not Available to make classification

**STOT-repeated exposure**
Data Not Available to make classification

**Aspiration Hazard**
Data Not Available to make classification

**Chronic Effects**
Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.
12. ECOLOGICAL INFORMATION

Ecotoxicity
Ingredient: Rocol Sapphire Silicone Grease
Endpoint: Not Available
Test Duration (hr): Not Available
Species: Not Available
Value: Not Available
Source: Not Available

Ingredient: Not Available
Endpoint: Not Available
Test Duration (hr): Not Available
Species: Not Available
Value: Not Available
Source: Not Available

DO NOT discharge into sewer or waterways.

Persistence and degradability
Persistence: Water/Soil: No Data available for all ingredients
Persistence: Air: No Data available for all ingredients

Mobility
No Data available for all ingredients in soil

Bioaccumulative Potential
No Data available for all ingredients

13. DISPOSAL CONSIDERATIONS

Waste Disposal
Recycle wherever possible or consult manufacturer for recycling options.
Consult State Land Waste Authority for disposal.
Bury or incinerate residue at an approved site.
Recycle containers if possible, or dispose of in an authorised landfill.

14. TRANSPORT INFORMATION

Transport Information
Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Transport in bulk according to Annex II of MARPOL and the IBC code:
Ingredient:
Rocol Sapphire Silicone Grease

U.N. Number
None Allocated

UN proper shipping name
None Allocated

Transport hazard class(es)
None Allocated

Hazchem Code
Not Applicable

Marine Pollutant
NO
15. REGULATORY INFORMATION

Regulatory information
SILICONE OIL(VARIOUS) IS FOUND ON THE FOLLOWING REGULATORY LISTS:
Not Applicable

Canada - NDSL All ingredients are on the inventory
China - IECSC: All ingredients are on the inventory
Japan - ENCS All ingredients are on the inventory
Korea - KECI: All ingredients are on the inventory
New Zealand - NZIoC: All ingredients are on the inventory

Poisons Schedule
N/A

EINECS/ELINCS (EC)
All ingredients are on the inventory

Australia (AICS)
All ingredients are on the inventory

Philippines (PICCS)
All ingredients are on the inventory

USA (TSCA)
All ingredients are on the inventory

16. OTHER INFORMATION

Other Information
Version No: 4.1.1.1
Safety Data Sheet according to WHS and ADG requirements

S.GHS.AUS.EN

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

This SDS has been transcribed into Infosafe GHS format from an original, issued by the manufacturer on the date shown. Any disclaimer by the manufacturer may not be included in the transcription.

END OF SDS