

Safety Data Sheet

according to EEC-Regulation 91/155/EEC

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

PAG OIL

Use of the substance/preparation

Synthetic refrigerating system lubrication oil for vehicle air conditioners

Company/undertaking identification

UView Ultraviolet Systems Inc. 1324 Blundell Rd. CAN L4Y 1M Mississauga
Telephone +1 905 615 8620 Fax +1 905 615 8620

Emergency telephone / Office for advice

Advisory office in case of poisoning:

Tel.: CHEMTREC +1 703 527-3877 (outside the USA), 800 424-9300 (within the USA)

Telephone number of the company in case of emergencies:

Tel.:

2. Composition/information on ingredients

Polyglycols

2.1	Chemical name	content %	symbol	R-phrases	CAS	EINECS, ELINCS
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For complete wording of the R-phrases, refer to point 16.

3. Hazards identification

3.1 To people

See point 11 and 15.

Preparation is not hazardous in the sense of directive 1999/45/EG.

3.2 To the environment

See point 12.

k.D.v.

4. First aid measures

4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Remove person from danger area.

4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Do not induce vomiting. Consult doctor immediately.

4.5 Special resources necessary for first aid

n.g.

5. Fire-fighting measures

5.1 Suitable extinguishing media

CO2

Dry extinguisher

Alcohol resistant foam

Water jet spray

5.2 Extinguishing media which must not be used for safety reasons

Water jet

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon
Oxides of nitrogen
Oxides of phosphorus

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

According to size of fire

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Ensure sufficient supply of air.

Do not carry cleaning cloths soaked in product in trouser pockets.

Avoid contact with eyes.

Caution - risk of slipping.

6.2 Environmental measures

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

7. Handling and storage

7.1 Handling

Tips for safe handling:

See point 6.1

Ensure good ventilation.

Product is hygroscopic.

Observe directions on label and instructions for use.

General hygiene measures for the handling of chemicals are applicable.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.

Store products only unopened, in original packing.

Special storage conditions:

See point 10.2

Protect against moisture and store closed.

Store cool

8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the OES, MEL or MAK values, suitable breathing protection should be worn.

Chemical name	content %	OES, MEL, MAK, TRK	BMGV, BAT
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8.1 Respiratory protection: Normally not necessary.

8.2 Hand protection: Protective nitrile gloves (EN 374)

Protective hand cream recommended.

8.3 Eye protection: Tight fitting protective goggles with side protection (EN 166).

8.4 Skin protection: Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

9. Physical and chemical properties

Physical state: Liquid

Colour: Clear

Odour: Mild

pH-value undiluted:	k.D.v.
Boiling point / range (°C):	k.D.v.
Melting point / range (°C):	k.D.v.
Flash point (°C):	>150 COC
Minimum limit of explosion:	k.D.v.
Maximum limit of explosion:	k.D.v.
Product is not explosive.	
Vapour pressure:	k.D.v.
Relative density (g/ml):	0,97 (15,6°C)
Solubility in water:	Insoluble
Viscosity:	46 - 150 cSt

10. Stability and reactivity

10.1 Conditions to avoid

See point 7

Protect from humidity.

Open flame, ignition sources

10.2 Materials to avoid

See point 7

Avoid contact with other chemicals.

Various plastics

Dyes

10.3 Hazardous decomposition products

See point 5.3

10.4 Additional information

Stabilizers necessary: k.D.v.

Stabilizers available: k.D.v.

11. Toxicological information

11.1 Acute toxicity and immediate effects

11.1.1 Ingestion, LD50 rat oral

(mg/kg): > 5000, Analogous conclusion

11.1.2 Inhalation, LC50 rat

inhal.(mg/l/4h): k.D.v.

11.1.3 Skin contact, LD50 rat

dermal (mg/kg): > 2000, Rabbit, Analogous conclusion

11.1.4 Eye contact: k.D.v.

11.2 Delayed and chronic effects

11.2.1 Sensitization: No indications of such an effect.

11.2.2 Carcinogenicity: k.D.v.

11.2.3 Mutagenicity: k.D.v.

11.2.4 Reproductive toxicity: k.D.v.

11.2.5 Narcosis: k.D.v.

11.3. Further information

No classification according to calculation procedure.

The following may occur:

Irritation of the eyes

Irritation of the skin.

12. Ecological information

Water hazard class: 1

Self classification: Yes (VwVwS)

Persistence and degradability: k.D.v.

Behaviour in sewage plants: k.D.v.

AOX:

According to the recipe, contains no AOX.

Aquatic toxicity:

Toxicity to fish:

> 1000 ppm

Toxicity to algae:

> 1000 ppm

Ecological toxicity:

Toxicity to bacteria:

> 1000 ppm

13. Disposal considerations

13.1. for the material / preparation / residue

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances.

13 02 06 synthetic engine, gear and lubricating oils

Recommendation:

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

15 01 01 paper and cardboard packaging

15 01 04 metallic packaging

14. Transport information

General statements

UN-Number: n.a.

Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

Transport by sea

IMDG-code: n.a. (class/packing-group)

EmS-Number: n.a.

Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing-group)

Additional information:

Non-dangerous material according to Transport Regulations.

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Guidelines (67/548/EEC and 1999/45/EC)

Symbols: Not applicable

Indications of danger: ---

R-phrases:

S-phrases:

Additions: n.a.

VbF: n.a.

Observe restrictions: n.a.

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 10 - 13

Revised points: n.a.

Legend:

n.a. = not applicable / n.v., k.D.v. = not available / n.g. = not checked / OES = Occupational exposure standard

MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value / MAK = Maximum concentration for work place

(Germany) / TRK = Technical guidance concentration (Germany) / BAT = Biological tolerance for work place (Germany)

VbF = Regulations for flammable liquids (Germany) / TRbF = Technical regulations for flammable liquids (Germany)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds (VOCV - Switzerland) / AOX = Adsorbable organic halogen compounds

VvVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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