R-PAG-100

Automotive PAG Refrigeration Fluids with UV Dye

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

1. Identification

Product identifier

Trade name R-PAG-100

Product description Automotive PAG Refrigeration Fluids with UV Dye

Details of the supplier of the safety data sheet

Manufacturer/supplier SumOil Corp.

20851 Johnson Street - Pembroke Pines, FL 33029

305-883-9949

Emergency telephone number 305-883-9949

2. Hazard(s) Identification

Classification of the substance or mixture



GHS07

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized

System (GHS).

Hazard pictograms

GHS07

Signal word Warning

Hazard statements Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.



2. Hazard(s) Identification (continued)

Wear protective gloves. Precautionary statements

> Wear eye protection / face protection. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

If swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container in accordance with local/regional/national/

international regulations.

Classification system

NFPA ratings (scale 0-4)



Health=1; Fire=1; Reactivity=0



Health=1; Fire=1; Reactivity=0

3. Composition / Information on Ingredients

Chemical characterization: Mixtures

Dangerous Components Polyalkylene Glycol

9003-13-8

Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319

20-50%

4. First-aid Measures

Description of first aid measures

General information Symptoms of poisoning may even occur after several hours; therefore medical

observation for at least 48 hours after the accident.

After inhalation In case of unconsciousness, place patient securely on side position for transportation.

After skin contact Immediately wash with water and soap and rinse thoroughly. If irritation occurs

consult a doctor.

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, After eye contact

consult a doctor.



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4. First-aid Measures (continued)

After swallowing Immediately call a doctor.

Most important symptoms and effects, No further relevant information available.

both acute and delayed

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. Fire-fighting Measures

Extinguishing media

CO₂ or Powder. Water mist to cool, no direct water spray. Collect spillage. Suitable extinguishing agents

Special hazards arising from the

substance or mixture

No further relevant information available.

Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH Protective equipment

approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Accidental Release Measures

Personal precautions, protective

Not required

equipment and emergency procedures

Do not allow to enter sewers/ surface or ground water

Environmental precautions Methods and material for

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders,

containment and cleaning up sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Dispose of the collected material according to regulations.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

Information about protection against

explosions and fires

No special measures required

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles: No special requirements

Further information about

Keep receptacle tightly sealed

storage conditions Specific end use(s)

No further relevant information available





8. Exposure Controls / Personal Protection

Additional information about design of technical systems

No further data; see section 7

Control parameters

Components with occupational

exposure limits

The product does not contain any relevant quantities of materials with critical

values that have to be monitored at the workplace.

Additional information The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment

General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Not required Breathing equipment

Protection of hands

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Select glove material based on penetration times, rates of diffusion and degradation.

Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be determined and observed by the

manufacturer of the protective gloves.

Eye protection

Tightly sealed goggles



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9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance

Form Liquid
Color See product

Odor Mild

Odor Threshold Not determined PH-value Not determined

Change in condition

Melting point/Melting range

Boiling point/Boiling range

>570°F (>298°C)

Flash Point

Flammability (solid/gaseous)

Not applicable

Not applicable

Ignition temperature

Decomposition temperature

Auto-igniting

Not determined

Not determined

Not determined

Explosion limits

LowerNot determinedUpperNot determinedVapor Pressure @ 20 DEG C<0.003 kPa</td>Density @ 20 DEG C0.89-0.97

Relative Density

Vapor Density

Not determined

Evaporation Rate

Solubility in/Miscibility with Water

Partition coefficient (n-octanol/water)

Not determined

Not determined

Not determined

Viscosity

Viscosity - Dynamic Varies with grade
Viscosity - Kinematic Varies with grade

Solvent content

Organic solvents 0.00%

Other Information No further information

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10. Stability and Reactivity

Reactivity No further relevant information available

Chemical stability Stable under normal conditions

Thermal decomposition / conditions

to be avoided

No decomposition if used according to specifications

Possibility of hazardous reactions
No dangerous reactions known

Conditions to avoid

No further relevant information available

Incompatible materials

No further relevant information available

No further relevant information available

No dangerous decomposition products known

11. Toxicological Information

Information on toxicological effects

Acute toxicity

LD/LC50 values that are relevant for classification

9003-13-8 Polyalkylene Glycol Oral: LD50 >300- <2000 mg/kg (rat)

Dermal: LD50 >2000 mg/kg (rat)

Primary irritant effect:

Additional toxicological information The product shows the following dangers according to internally approved calculation

methods for preparations: Harmful. Irritant.

Carcinogenic categories

IARC (International Agency for

Research on Cancer)

None of the ingredients are listed. Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

NTP (National Toxicology Program)

OSHA-Ca (Occupational Safety

& Health Administration)

None of the ingredients are listed None of the ingredients are listed

12. Ecological Information

Toxicity No data is available on this product.

Aquatic toxicity

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No further relevant information available

No further relevant information available

No further relevant information available

Additional ecological information

General notes Water hazard class 1 (Self-assessment): slightly hazardous for water

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12. Ecological Information (continued)

Results of PBT and vPvB assessment

PBT Not applicable vPvB Not applicable

Other adverse effects No further relevant information available

13. Disposal Considerations

Uncleaned packagings

Recommendation Disposal must be made according to official regulations.

14. Transportation Information

UN-Number

DOT, ADR, ADN, IMDG, IATA Non-regulated material

UN proper shipping name

DOT, ADR, ADN, IMDG, IATA Non-regulated material

Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA

Class Non-regulated material

Packing group

DOT, ADR, IMDG, IATA Non-regulated material

Environmental hazards

Marine pollutant No

Special precautions for user Not applicable
Transport in bulk according to Annex II Not applicable

of MARPOL73/78 and the IBC Code

UN "Model Regulation" —

15. Regulatory Information

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

Sara

Section 355 (extremely None of the ingredients are listed

hazardous substances)

Section 313 (Specific toxic None of the ingredients are listed

chemical listings)

TSCA (Toxic Substances Control Act) All components are either listed or not regulated under TSCA

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15. Regulatory Information (continued)

Carcinogenic categories

EPA (Environmental Protection Agency) None of the ingredients are listed

TLV (Threshold Limit Value established None of the ingredients are listed

by ACGIH)

NIOSH-Ca (National Institute for None of the ingredients are listed Occupational Safety and Health)

GHS label elements Non-regulated material

Hazard pictograms

Signal word Warning

Hazard-determining components Polyalkylene Glycol

of labeling

Hazard statements Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

GHS07

Precautionary statements Wear protective gloves.

Wear eye protection / face protection. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do.

Continue rinsing.

If swallowed: Call a poison center/doctor if you feel unwell.

Specific treatment (see on this label).

If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention.

Rinse mouth.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container in accordance with local/regional/national/

international regulations.

National regulations The product is subject to be labeled according with the prevailing version of the

regulations on hazardous substances.

State Right to Know Polyalkylene Glycol

9003-13-8

Acute Tox. 4, H302; Skin Irrit. 2, H315;

Eye Irrit. 2A, H319

Chemical safety assessment A chemical safety assessment has not been carried out

20-50%



16. Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision

Abbreviations and acronyms

02/19/2016 / 1

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International

Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Danger-

ous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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