

PAG Refrigeration Lubricant with Performance Enhancer & UV Dye

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Enhanced PAG w/ UV Dye 46, 100, & 150 Viscosity

Revision Date: 02/2015

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

1. Identification

Product identifier

Trade name MasterChem ™ Enhanced PAG with UV Dye Relevant identified uses of the substance or mixture and uses advised against

Product description PAG Refrigeration Lubricant with Performance Enhancer

Details of the supplier of the safety data sheet

Manufacturer/supplier Omega/Santech

1401 Valley View Lane, Suite #100

Irving, TX 75061

Emergency telephone number 972-812-7000

2. Hazard(s) Identification

Classification of the substance or mixture Acute Tox. 4. - H302. Harmful if swallowed

Skin Irrit. 2. - H315. Causes skin irritation Eye Irrit. 2B - H320. Causes eye irritation

Skin Sen. - H317. May cause an allergic skin reaction

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-determining components

of labeling

91-20-3 Naphthalene



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2. Hazard(s) Identification (continued)

Hazard statements Harmful if swallowed.

Causes skin irritation.

Causes serious averifitation averification was cause serious algraics. Kin reaction. Precautionary statements

Wear eye protection / face protection. Avoid release to the environment. Wash thoroughly after handling.

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

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

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). Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention. If skin irritation or rash 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

HMIS-ratings (scale 0 - 4)



Health=1; Fire=1; Reactivity=0

Other Hazards None known

3. Composition / Information on Ingredients

Chemical characterization: Mixtures

Mixture of the substances listed below with nonhazardous additions. Description:

Dangerous Components

Naphthalene

91-20-3 < 2.5% Acute Tox. 4, H320, Skin Irrit. 2, H315, Eye Irrit 2B,

H320, Skin Sens. 1, H317

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4. First-aid Measures

Description of first aid measures

General information Symptoms may even occur after several hours; therefore observe area

effected 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 skin irritation

continues, consult a doctor.

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

persist, consult a doctor.

After swallowing Do not induce vomiting without medical advice. Get medical attention.

Information for 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

Suitable extinguishing agents

Water, carbon dioxide, foam or dry extinguishing media. Use fire fighting measures that suit the environment.

Special hazards arising from the

substance or mixture

If incinerated, product may release toxic gases including: Carbon Oxides and Nitrogen Oxides (NOx).

Advice for firefighters

Protective equipment

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product. Keep away from ignition sources. Avoid contact with skin, eyes and clothing. Proper protective equipment should be used.

Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

After material has been absorbed, area may be flushed with water or wet-brushed to clean. Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Dispose of the collected material according to regulations.

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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.

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7. Handling and Storage

Handling

Precautions for safe handling

Keep away from sources of ignition. Store in cool, dry place in tightly closed

receptacles. 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

Store away from strong acids, strong bases, strong oxidizing agents, strong reducing agents, and Alkalis.

Storage

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

Information about storage in one

common storage facility

Further information about

storage conditions

Not required.

Keep receptacle tightly sealed.

No further relevant information available. Specific end use(s)

8. Exposure Controls / Personal Protection

Additional information about design

of technical systems

No further data: see section 7.

Control parameters

Ingredients with limit values that require monitoring at workplace

DNELs

PNFCs Additional Information

No further relevant information No further relevant information

The list value during the making were used as a basis

values that have to be monitored at a workspace.

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.

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

Breathing equipment

Protection of hands

Not required.

Protective gloves.

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.





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8. Exposure Controls / Personal Protection (continued)

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 Safety glasses

9. Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Appearance

Form Liquid

Color Clear amber
Odor Characteristic
Odor threshold Not determined.
pH-value Not determined.

Change in condition

Melting point/Melting range

Boiling point/Boiling range

> 200°C (> 392°F)

Flash point

> 218°C (> 424°F)

Flammability (solid, gaseous):

Ignition temperature

Decomposition temperature

Not determined.

Auto igniting Product is not self-igniting.

Danger of explosion Product does not present an explosion hazard.

Explosion limits

Lower Not determined.

Upper Not determined.

Vapor pressure @ 25°C (77°F) <0.001 kPa

Density @ 20°C (68°F) 0.91 g/cm³ (7.594 lbs/gal)

Relative density Not determined.

Vapor density Not determined.

Evaporation rate Not determined.

Solubility in / Miscibility with water Insoluble.

Partition coefficient (n-octanol/water): Not determined.

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9. Physical and Chemical Properties (continued)

Viscosity

Dynamic Not determined. Kinematic Not determined.

Solvent content

Organic solvents 0.0 %

Other information No further relevant information available.

10. Stability and Reactivity

Reactivity Stable under normal conditions
Chemical stability Stable under normal conditions.

Thermal decomposition / conditions
No decomposition if used according to specifications.

to be avoided:

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials Strong acids, strong bases, strong oxidizing agents, strong reducing agents,

and Alkalis.

11. Toxicological Information

Information on toxicological effects The toxicity of this product is unknown.

Acute toxicity

LD/LC50 values that are relevant for classification

91-20-3 Naphthalene Oral: LD50 490 mg/kg (rat)

Dermal: LD50 5000 mg/kg (rat) Inhalative: LC50/4 h 0.34 mg/l (rat)

Primary irritant effect:

on the skin: Irritant to skin and mucous membranes. May cause an allergic skin reaction.

on the eye: Irritating effect. Causes serious eye irritation.

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

calculation methods for preparations: Harmful. Irritant.

12. Ecological Information

Toxicity

Aquatic toxicity: Avoid release into the environment. Runoff from fire control or dilution water

may cause pollution.

91-20-3 Naphthalene: EC50 1.00-3.40 mg/l (daphnia)

Persistence and degradability No further relevant information available.

Behavior in environmental systems

Bioaccumulative potential No further relevant information available.

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Mobility in soil No further relevant information available.

Ecotoxical effects

Remark No further information available

Additional ecological information

General notes: Do not allow product to reach ground water, water course or sewage system

Results of PBT and vPvB assessment

PBT Not applicable. vPvB Not applicable.

Other adverse effects No further relevant information available.

13. Disposal Considerations

Waste Treatment Methods

Recommendation Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

Uncleaned packagings

Recommendation Dispose of as unused product. Disposal must be made according to

official regulations.

14. Transportation Information

UN-Number

DOT, ADR, 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 Not applicable.

UN "Model Regulation" -

II of MARPOL73/78 and the IBC Code

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15. Regulatory Information

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

Sara

Section 355 (extremely hazardous substances)

Section 313 (Specific toxic

None of the ingredients are listed

chemical listings):

TSCA (Toxic Substances Control Act): 91-20-3 Naphthalene

Proposition 65

Chemicals known to cause cancer:

Chemicals known to cause

reproductive toxicity for females:

Chemicals known to cause

reproductive toxicity for males:

Chemicals known to cause developmental toxicity:

Carcinogenic categories

EPA (Environmental Protection

Agency)

TLV (Threshold Limit Value

established by ACGIH)

NIOSH-Ca (National Institute for Occupational Safety and Health)

GHS label elements

Hazard pictograms

None of the ingredients are listed

91-20-3 Naphthalene

91-20-3 Naphthalene

None of the ingredients are listed.

The product is classified and labeled according to the Globally Harmonized

System (GHS).

GHS07

Signal word Warning

Hazard-determining components

of labeling

Hazard statements

91-20-3 Naphthalene

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing cancer. Harmful to

aquatic life with long lasting effects.





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15. Regulatory Information (continued)

Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Wear eye protection / face protection. Avoid release to the environment. Wash thoroughly after handling.

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

Contaminated work clothing must not be allowed out of the workplace.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood. 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). Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention. If skin irritation or rash 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.

All ingredients are listed.

State Right to Know Naphthalen

H320, Skin Sens. 1, H317

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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 02/04/2015 / -

Abbreviations and acronyms: 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 Dangerous

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

: Flammable liquids, Hazard Category 4
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skip lerit 3: Skip correction limitation. Hazard Category

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

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

: Hazardous to the aquatic environment - AcuteHazard, Category 3

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

Data compared to the previous version altered

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