

Safety data sheet

Issue date: 04.11.2016

Version 2

Last Revision: 01.11.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

· **Product name:** A/C OIL WITH A/C EXTENDYE PAG 100

· **Part number:** 488100PBD

· **Application of the substance / the mixture** Fluorescent dye for refrigeration oil

1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Uview Ultraviolet Systems Inc., division of, CPS Products Canada Ltd.

1324 Blundell Road

Mississauga, ON L4Y 1M5

Canada

Tel: (905) 615-8620

· **email of person responsible:** customerservice@uview.com

*Universal Pag For Service
Application R134A AC
System Viscosity 100*

· **1.4 Emergency telephone number:** CHEMTREC International +1 (703) 527-3887 24 hr

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

2.2 Label elements

· **Labelling according to Regulation (EC) No 1272/2008** Not Applicable

· **Hazard pictograms** Not Applicable

· **Signal word** Not Applicable

· **Hazard statements** Not Applicable

2.3 Other hazards

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

· **Description:** Mixture: consisting of the following hazardous components.

· **Dangerous components:** Not Applicable

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

· **General information:** No special measures required.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

Wash with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

(Contd. on page 2)

Safety data sheet

Issue date: 04.11.2016

Version 2

Last Revision: 01.11.2016

Product name: AC OIL WITH AC EXTENDYE PAG 100

(Contd. of page 1)

- **After eye contact:**
Rinse cautiously with water. Remove contact lenses, if present and easy to do. Get medical attention if eye irritation develops or persists.
- **After swallowing:** DO NOT INDUCE VOMITING. Get immediate medical attention.
- **4.2 Most important symptoms and effects, both acute and delayed**
May cause eye irritation. Symptoms may include discomfort or pain, excessive blinking and tear production, with possible redness and swelling.
See section 11.
- **Information for doctor:** Treat Symptomatically
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents:**
CO₂, dry chemical, or foam. Water can be used to cool and protect exposed material.
 - **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** See section 10 for additional information.
- **5.3 Advice for firefighters**
 - **Protective equipment:**
Recommend wearing self-contained breathing apparatus. Water may cause splattering.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Particular danger of slipping on leaked/spilled product.
Personal protective equipment must be worn. Avoid contact with skin, eyes or clothing.
- **6.2 Environmental precautions:** No special measures required.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Keep containers closed when not in use. Wash thoroughly after handling. Launder contaminated clothing before reuse. Empty container contains product residue which may exhibit hazards of product. Dispose of packaging or containers in accordance with local, regional, national and international regulations.
 - **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
See section 10 for incompatible materials.

(Contd. on page 3)

GB

Safety data sheet

Issue date: 04.11.2016

Version 2

Last Revision: 01.11.2016

Product name: **AC OIL WITH AC EXTENDYE PAG 100**

(Contd. of page 2)

- **Information about storage in one common storage facility:**
Store in a cool dry place in tightly closed containers.
- **Further information about storage conditions:**
Keep container tightly sealed.
Protect from humidity and water.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:**
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
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 valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
 - **General protective and hygienic measures:**
Clean skin thoroughly immediately after handling the product.
Storing food in the working area is prohibited.
The usual precautionary measures for handling chemicals should be followed.
Do not inhale dust / smoke / mist.
 - **Respiratory protection:**
Avoid breathing in mist or vapor. Under normal use conditions this is not a breathing hazard.
Prolonged exposure to vapors may cause dizziness and headaches.
Use suitable respiratory protective device only when aerosol or mist is formed.
 - **Protection of hands:**



Chemical resistant protective gloves (EN 374)

- **Eye protection:**



Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

GB

(Contd. on page 4)

Safety data sheet

Issue date: 04.11.2016

Version 2

Last Revision: 01.11.2016

Product name: AC OIL WITH AC EXTENDYE PAG 100

(Contd. of page 3)

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****General Information****Appearance:**

- **Form:** Liquid
- **Colour:** Yellow
- **Odour:** Mineral-oil-like
- **Odour threshold:** Not determined.

· **pH-value:** Not determined.**Change in condition**

- **Melting point/Melting range:** Undetermined.
- **Boiling point/Boiling range:** Undetermined.

· **Flash point:** >200 °C· **Flammability (solid, gaseous):** Not applicable.**Ignition temperature:**

- **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:**

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Vapour pressure:** Not determined.· **Density:** Not determined.

- **Relative density at 25 °C** 0.95-1.05
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.

Solubility in / Miscibility with

- **water:** Not miscible or difficult to mix.

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

- **Dynamic:** Not determined.
- **Kinematic at 40 °C:** 90 mm²/s

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity· **10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **10.3 Possibility of hazardous reactions** No dangerous reactions known.

(Contd. on page 5)

Safety data sheet

Issue date: 04.11.2016

Version 2

Last Revision: 01.11.2016

Product name: AC OIL WITH AC EXTENDYE PAG 100
--

(Contd. of page 4)

- **10.4 Conditions to avoid** Heat, open flames, sparks.
- **10.5 Incompatible materials:** May react with strong oxidizing materials.
- **10.6 Hazardous decomposition products:**
Smoke, carbon monoxide, carbon dioxide and other products of incomplete combustion.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:		
Oral	LD50	>2000 mg/kg (rat)

Oral	LD50	>2000 mg/kg (rat)
------	------	-------------------

- **Primary irritant effect:**

- **Skin corrosion/irritation** May cause mild skin irritation.
- **Serious eye damage/irritation**
May cause eye irritation. Symptoms may include discomfort or pain, excessive blinking and tear production, with possible redness and swelling.
- **Inhalation:** May cause respiratory tract irritation.
- **Ingestion:** May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

- **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

· 12.2 Persistence and degradability	
Persistence and Degradability	75.7% 28 d (-) (OECD 301B)

Persistence and Degradability	75.7% 28 d (-) (OECD 301B)
-------------------------------	----------------------------

· 12.3 Bioaccumulative potential	
Bioaccumulation	Log POW > 7 (-)

Bioaccumulation	Log POW > 7 (-)
-----------------	-----------------

- **12.4 Mobility in soil** Not Determined

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 6)

Safety data sheet

Issue date: 04.11.2016

Version 2

Last Revision: 01.11.2016

Product name: AC OIL WITH AC EXTENDYE PAG 100

(Contd. of page 5)

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Smaller quantities can be disposed of with household waste.

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA

Not Regulated

· 14.2 UN proper shipping name

· ADR

Not Regulated

· IMDG, IATA

Not Regulated

· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA

· Class

Not Regulated

· 14.4 Packing group

· ADR, IMDG, IATA

Not Regulated

· 14.5 Environmental hazards:

· Marine pollutant:

No

· 14.6 Special precautions for user

Not applicable.

· 14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code

Not applicable.

· UN "Model Regulation":

Not Regulated

SECTION 15: Regulatory information

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

No REACH Annex XVII restrictions

Contains no REACH candidate substance

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

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

GB

(Contd. on page 7)

Safety data sheet

Issue date: 04.11.2016

Version 2

Last Revision: 01.11.2016

Product name: AC OIL WITH AC EXTENDYE PAG 100

(Contd. of page 6)

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Issue Date:** 04/NOV/2016

· **Contact:** Engineering Department

· **Revision Changes:**

v 1.0 - initial SDS release (23/OCT/2015)

v 2.0 - revised (04/NOV/2016)

· **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)

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

GB