



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY INFORMATION CHEMICAL

**Product Name:** Smoke Oil V. 100

**Manufacturer information** Aero Cumulus, Inc.

**Product use** Aviation Smoke Oil

**Emergency phone numbers** (479) 806-5283

**Information** Product Safety Information

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Amount (Vol%)</u>
Hydrocarbon base oil	68649-12-7	70
Additive Blend	Trade Secret	30

### 3. HAZARDS IDENTIFICATION

#### Emergency Overview

This product contains no substance which at their given concentration, are considered to be hazardous to health.

**Appearance:** Clear

**Physical State:** Liquid

**Odor:** Odorless

<u>NFPA</u>	<b>Health Hazard</b> 0	<b>Flammability</b> 1	<b>Stability</b> 0	<b>Physical/chemical Hazards</b> --
<u>HMIS</u>	<b>Health Hazard</b> 0	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal Protection</b> ---

**Environmental Hazard**

See section 11 for additional Ecological Information.

### 4. FIRST AID MEASURES

**Eye Contact**

Wash with plenty of water. If irritation persists, call a physician.

**Skin Contact**

Remove and wash contaminated clothing before re-use. Wash with

<b>Inhalation</b>	water for 20 minutes. See physician if irritation persists.
<b>Ingestion</b>	Remove to fresh air. Seek medical attention if symptoms develop.
	Seek Medical attention if discomfort occurs. Material is practically NON-TOXIC. Do NOT induce vomiting.
<b>Notes to physician</b>	Treat Symptomatically

## **5. FIRE FIGHTING MEASURES**

<b>Flammable Properties:</b>	Does not promote combustion. Is considered not flammable.
<b>Flash Point</b>	360° F
<b>Suitable Extinguishing Method:</b>	Water spray or fog, foam, dry chemical, carbon dioxide if the product is involved in a fire. Avoid using solid stream spray pattern as it may spread fire.

## **6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Ensure adequate ventilation
<b>Environmental precautions</b>	Try to prevent the material from entering drains and water ways
<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers with inert material

## **7. HANDLING AND STORAGE**

<b>Advice on safe handling</b>	Wash thoroughly after handling
<b>Technical measures</b>	Store away from oxidizing agents or combustible materials
<b>Storage conditions</b>	Do not store in open or unlabeled containers

## **8. EXPOSURE CONTROL/PERSONAL PROTECTION**

### **Engineering controls:**

Use with adequate ventilation. Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Mechanical ventilation recommended.

### **Personal Protection:**

- **Eye protection**

Safety glasses (with side shields) recommended. Splash proof goggles are recommended to protect against the splash of product

- **Gloves or hand protection**

Protective gloves are recommended when prolonged skin contact cannot be avoided. The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant material may not provide adequate protection. Neoprene; Nitrile, Viton

- **Respiratory protection**

Concentration in air determines the level of respiratory needed if irritation is experienced. Niosh/MSHA approved respiratory protection should be worn. Positive- pressure respirators may be required for high airborne contaminant conditions. Respiratory protection must be provided in accordance with current local regulations.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Appearance	Color	Oder
Liquid	Clear Liquid	Colorless	Oderless

<u>Property</u>	<u>Values</u>
Ph	
Flash point	360° F
Evaporation rate	-45° F
Flammability	
Flammability upper/lower limits	
Explosion upper/lower limits	
Vapor Pressure	
Vapor density	
Specific Gravity	
Water solubility	Negligible
Solubility in other solvents	
Partition coefficient: n-octano/water	
Autoignition temperature	
Decomposition temperature	
Viscosity C	11.1 cSt @40° C
Viscosity C	2.7 cSt @100° C
Explosive Properties	No information available
Oxidizing Properties	No information available

### 10. STABILITY AND REACTIVITY

**Stability**

Stable under recommended storage conditions.

<b>Incompatible Products</b>	Strong oxidizing agents
<b>Conditions to avoid</b>	Heat above the flash point, sparks, ignition points, flames, static electricity
<b>Hazardous Decomposition Products</b>	Oxides of carbon and other asphyxiants
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur

**11. ECOLOGICAL INFORMATION**

No data Available

**12. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** This material, as supplied, is not a hazardous waste according to federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging:** Do not re-use empty containers

**13. TRANSPORT INFORMATION**

<b><u>DOT</u></b>	Not Regulated
<b><u>TDG</u></b>	Not Regulated
<b><u>MEX</u></b>	Not Regulated
<b><u>ICAO</u></b>	Not Regulated
<b><u>ICAO/IATA</u></b>	Not Regulated
<b><u>IMDG/IMO</u></b>	Not Regulated
<b><u>RID</u></b>	Not Regulated
<b><u>ADR/RID</u></b>	Not Regulated
<b><u>ADN</u></b>	Not Regulated

**14. REGULATORY INFORMATION OTHER INFORMATION**

**International Inventories**

<b>TSCA</b>	<b>TSCA</b>
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<b>DSL</b>	Complies
<b>NDSL</b>	Complies
<b>EINECS</b>	Complies
<b>ELINCS</b>	-
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

<b>TSCA-</b>	United States Toxic Substance Control Act Section 8(b) Inventory
<b>DSL/NDSL</b>	Canadian Domestic Substance List/Non-Domestic Substance List
<b>EINECS/ELINCS</b>	European Inventory of Existing Commercial chemical Substances/ EU List of notified Chemical Substances
<b>ENCS</b>	Japan Existing and new Chemical Substances
<b>IECSC</b>	China Inventory of Existing Chemical Substances
<b>KECL</b>	Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	Philippines Inventory of Chemical Substances
<b>AICS</b>	Australian Inventory of Chemical Substances

### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization act of 1986 (SARA). This Product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive hazard</b>	No

#### **Clean Water Act**

This product does not contain any substances regulated as pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be reporting requirements at the local, regional, or state level pertaining to the releases of this material.

**U.S. State Regulations**

**California Proposition 65**

California Proposition 65

**U.S. Right-to-Know Regulation**

**International Regulations**

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**Disclaimer**

The Information provided on this MSDS is correct to the best of our knowledge, information, and belief. The information given is designed only as a guide for handling, use, processing, storage, transportation, disposal, and release and its not to be considered as a warrant or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**END OF MATERIAL SAFETY DATA SHEET**