

# Safety Data Sheet

## (SDS)

<b>Chemicals name</b>	AD-3283 Fluorinated Engineering Fluid		
<b>SDS NO.</b>	AD/Q-S-004-2022	<b>Version</b>	5.0
<b>Issue Date</b>	12/01/2023	<b>Previous Date</b>	07/18/2023
<b>Editor</b>	Vivian Zhang	<b>Approved by</b>	Julius Chou
<b>Revision information</b>	Product Name Change		

# Safety Data Sheet

Supersedes Date: 07/18/2023

Issue Date: 12/01/2023

## SECTION 1: Chemical and manufacturer data

### 1.1. Product identifier

AD-3283 Fluorinated Engineering Fluid

### 1.2. Name, address and telephone number of manufacturer, importer or supplier

**Manufacturer:** Nantong A. D Dawning Material Co, Ltd.**Address:** No.198 Jiangsu Road,, Qidong Life and Health Industrial Park, Nantong City, Jiangsu Province, China**Telephone:** +86 130 0417 0543 / +86 186 1651 4635

### 1.3. Emergency contact number/fax number/email address

**Emergency contact number:** +86 130 0417 0543 / +86 186 1651 4635**Fax number:** +86 21-58682568**Email address:** julius@megachemistry.cn / vivianzhang@megachemistry.cn

### 1.4. Recommended use and restrictions on use

For Industrial Use Only.

Not Intended for Use in Medical Device, Drug or Food,

Please contact for further information.

## SECTION 2: Hazards identification

### 2.1. Hazard classification

Not classified as hazardous.

### 2.2. Label elements

**Signal word**

Not applicable

**Symbols**

Not applicable

**Pictograms**

Not applicable

**Hazard statements**

None

**Prevention**

None

**Response**

None

**Storage**

Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

Dispose of contents/containers in accordance with local/regional/national/international regulations.

**2.3. Other hazards which are not covered by the GHS**

No information available.

**SECTION 3: Composition/information on ingredients**

Ingredient	CAS No.	% By Wt.
PERFLUORO COMPOUNDS, C5-18	86508-42-1	100

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

Move the victim to fresh air and keep airway unobstructed. Keep the victim warm and quiet. Call the medical emergency services. If breathing is difficult, give oxygen. If not breathe, give artificial respiration.

**Skin contact:**

Remove and insulate contaminated clothing, shoes and socks. Flush the skin with running water at least 20 minutes. If feel unwell, get medical help.

**Eye contact:**

Flush the eyes with running water at least 20 minutes immediately. If feel unwell, get medical help.

**Ingestion:**

Rinse mouth. Do not induce vomiting without medical advice. Keep the victim warm and quiet. Call the medical emergency services. If breathing is difficult, give oxygen. If not breathe, give artificial respiration.

**Protecting of first aiders:**

Ensure that first aiders are aware of the hazard characteristics of the product. Take precautions to protect themselves and prevent spread of contamination.

**4.2. Most important symptoms/effects, acute and delayed.**

No critical symptoms or effects. See Section 11.1, information on toxicity information.

**4.3. Indication of immediate medical attention and special treatment needed**

No information is available.

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media:**

Use a fire-fighting agent suitable for the surrounding fire.

**5.2. Specific hazards arising from the chemical**

Thermal decomposition may occur at extremely high temperature. Do not inhale the decomposed product. The potential decomposition by-products include carbon monoxide, carbon dioxide and hydrogen fluoride.

**5.3. Special protective equipment and precautions for fire-fighters**

If in case a fire happens, wear self-contained breathing apparatus (SCBA) and full protective gear, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Evacuate personal to safety area if needed.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and materials for containment and cleaning up

Working from the edges of the spill inward, cover with commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Place in a closed container approved by appropriate authorities. Dispose of collected material as soon as possible in accordance with applicable regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial use only. Do not breathe thermal decomposition products. Avoid release to the environment. Avoid contact with oxidizing agents. No eating and smoking when handling the product.

### 7.2. Conditions for safe storage

Store away from heat. Store away from oxidizing agents. Store in a tightly closed original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Occupational exposure limits:

No occupational exposure limit for this product under normal conditions according GBZ 2.1-2019 "Occupational exposure limits for hazardous agents in the workplace"

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

For those situations where the material might be exposed to extreme temperature due to misuse or equipment failure, use with appropriate local exhaust ventilation to maintain levels of decomposition products under their exposure guidelines.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Wear safety protective glasses.

##### Skin/hand protection

Protective gloves are not required under normal use conditions. However, when the product is exposed to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.

##### Respiratory protection

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

##### Other protection

Smoking is prohibited in the workplace. Wash thoroughly after work and do not bring work clothes to non-workplaces. The type of protective equipment must be selected according to the concentration and property of hazardous substances in a specific workplace.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	Colorless liquid
Odor	Odorless
pH	Not applicable
Melting Point/Freezing Point (°C)	No information available.
Boiling Point/ Initial Boiling Point/ Boiling Range (°C)	123-133 °C
Flash Point (Closed Cup) (°C)	No flash point
Vapor Pressure	1200pa (at 25 °C)
Flammability (solid, gas)	Not applicable
Flammable Limits (LEL)	None detected
Flammable Limits (UEL)	None detected
Density (g/cm <sup>3</sup> )	1.820 g/cm <sup>3</sup> (20°C)
Solubility in Water	Not soluble
Relative vapor density	No information available.
n-Octanol/Water Partition Coefficient	No information available.
Auto-ignition Temperature (°C)	No information available.
Decomposition Temperature (°C)	No information available.
Viscosity	1 .4 centipoise at 25 °C
Particle Characteristics	Not applicable.
Average Molecular Weight	521
Percent volatile	100%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with strong acids, strong bases, and strong oxidizers at very high temperature.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous polymerization

Hazardous polymerization not known

### 10.4. Conditions to avoid

Extreme heat.

### 10.5. Incompatible materials

Alkali and alkaline earth metals

### 10.6. Hazardous decomposition products

Hydrogen fluoride, carbon monoxide and carbon dioxide are the possible decomposition products during the combustion at greater than 200 °C.

## SECTION 11: Toxicological information

### 11.1. Acute Toxicity

Contact Manufacture listed in Section 1 for detail information

**Inhalation:**

No know health effects.

**Skin contact:**

No significant irritation.

**Eye contact:**

No significant irritation.

**Ingestion:**

No known health effects.

**Toxicological data**

Not classified as hazardous. Please contact the address or phone number listed on the first page for detail information.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

**Reproductive toxicity**

No information available.

**STOT-Single exposure**

No information available.

## SECTION 12: Ecological information

**12.1. Ecotoxicity**

No information available.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

Dispose of the product in accordance with the local and national regulations. Consult local authorities and regulations to ensure proper classification. Dispose of waste product in a permitted industrial waste facility. Combustion products will include HF. Facility must be capable of handling HF. Empty and clean product containers may be disposed as non-hazardous waste. Consult your local regulations and service providers to determine available options and requirements.

## SECTION 14: Transport Information

Not regulated per IATA, IMO or US DOT.

### Transport hazard class

Not applicable.

### Packaging group

Not applicable.

## SECTION 15: Regulatory information

### Chemical Inventories

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance".

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS).

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact A.D Materials Technology Corp for further regulatory and chemical inventory information.

## SECTION 16: Other information

### 16.1. Revision date

2023/12/01

### 16.2. Previous date

2023/07/18

### 16.3. According to the standard

UN "Globally Harmonized System of Classification and Labelling of Chemicals" (Rev.9)

### 16.4. Disclaimer

This Safety Data Sheet (SDS) is revised by Nantong A. D Material Co. Ltd and issued on 12/01/2023. The Previous version was created on 07/18/2023. The information in this Safety Data Sheet (SDS) is prepared as accurate as possible based on our knowledge of the date issued. Users of SDS should judge the applicability of relevant information according to the actual situation.