

# SAFETY DATA SHEET

## SECTION 1: Identification

### 1.1 Product Identifiers

Product name : Flowing Agent F-S1300  
 Brand : Inovia  
 REACH No. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.  
 CAS-No. : confidential

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Inovia Materials (Hangzhou) Co,Ltd  
 4F, Bldg 1, 3, Gaoxinjiu Rd,  
 Xiaoshan, Hangzhou, Zhejiang China  
 Telephone : 86-571-56122938

### 1.4 Emergency telephone number

Emergency Phone # : 001-720-207-8268

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315  
 Eye irritation (Category 2), H319  
 Specific target organ toxicity - single exposure (Category 3), H335  
 For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word : Warning

Hazard statement(s)

H315 : Causes skin irritation.  
 H319 : Causes serious eye irritation.  
 H335 : May cause respiratory irritation.

Precautionary statement(s)

P261 : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P264 : Wash skin thoroughly after handling.  
 P271 : Use only outdoors or in a well-ventilated area.  
 P280 : Wear protective gloves/ eye protection/ face protection.  
 P302 + P352 : IF ON SKIN: Wash with plenty of soap and water.

|                    |  |
|--------------------|--|
| P304 + P340        | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                 |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312               | Call a POISON CENTER/doctor if you feel unwell.  |
| P321               | Specific treatment (see supplemental first aid instructions on this label).  |
| P332 + P313        | If skin irritation occurs: Get medical advice/ attention.  |
| P337 + P313        | If eye irritation persists: Get medical advice/ attention.   |
| P362               | Take off contaminated clothing and wash before reuse.  |
| P403 + P233        | Store in a well-ventilated place. Keep container tightly closed.   |
| P405               | Store locked up.   |
| P501               | Dispose of contents/ container to an approved waste disposal plant.  |

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : Flowing Agent

| Component    | Classification  | Concentration |
|--------------|---|---------------|
| confidential |   |               |
|              | Skin Irrit. 2; Eye Irrit. 2A;<br>STOT SE 3; H315, H319,<br>H335 | <= 100 %      |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First-aid measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see

section 2.2) and/or in section 11

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

### **SECTION 5: Fire-fighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Sulphur oxides, Oxides of phosphorus

#### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **5.4 Further information**

No data available

### **SECTION 6: Accidental release measures**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### **6.4 Reference to other sections**

For disposal see section 13.

### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

#### **7.2 Conditions for safe storage, including any incompatibilities**

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

hygroscopic Store under inert gas.

Storage class (TRGS 510): 13: Non Combustible Solids

#### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

##### Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

The product is of ionic liquids, and its vapor pressure is negligible. There may be some trace amount of impurities, activated carbon mask is advised.

##### Control of environmental exposure

Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| a) Appearance                              | Form: Liquid<br>Colour: Light yellow  |
| b) Odour                                   | No data available   |
| c) Odour Threshold                         | No data available   |
| d) pH                                      | 7   |
| e) Melting point/freezing point            | No freezing point (100.7kPa) is observed within the temperature range of (- 70~50) °C |
| f) Initial boiling point and boiling range | No boiling point observed when heated to 310~360 °C                                   |

|    |  |   |
|----|--|---|
| g) | Flash point                                  | When the sample is heated to 169 °C, a large number of bubbles appear, and no flash point is observed |
| h) | Evaporation rate                             | No data available   |
| i) | Flammability (solid, gas)                    | No data available   |
| j) | Upper/lower flammability or explosive limits | No data available   |
| k) | Vapour pressure                              | < 0.3KPa (20°C, 25°C, 37.8°C)   |
| l) | Vapour density                               | No data available   |
| m) | Relative density                             | 1.091g/cm <sup>3</sup> (20°C)   |
| n) | Water solubility                             | > 1000g/L (20°C, PH=3.0)  |
| o) | Partition coefficient:<br>n-octanol/water    | <0.3  |
| p) | Auto-ignition Temperature                    | > 500°C   |
| q) | Decomposition temperature                    | No data available   |
| r) | Viscosity                                    | 721mm <sup>2</sup> /S   |
| s) | Explosive properties                         | No data available   |
| t) | Oxidizing properties                         | not an oxidizing liquid   |

## 9.2 Other safety information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides, Oxides of phosphorus

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 cut-off value 500 mg/kg body weight, after single oral administration to Wistar rats.

Dermal: No data available

No data available

### **Skin corrosion/irritation**

After treating the skin model EpiDerm™ with this product for 60 min, the average value of relative tissue vitality decreased to 2.1%. This value is lower than the threshold of skin irritation probability (50%). Test items with permeability value lower than 50% threshold are considered to be at least irritating to skin

### **Serious eye damage/eye irritation**

This product causes serious damage to bovine cornea. The calculated average IVIS is 49.67. According to OECD Guideline 437 (June 2020), substances with IVIS > 55 can cause serious eye damage and should be classified as UN GHS Class I

### **Respiratory or skin sensitization**

No data available

### **Germ cell mutagenicity**

This product has no mutagenic effect on Salmonella typhimurium strains TA98, TA100, TA102, TA1535 and TA1537.

### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

### **Reproductive toxicity**

No data available

### **Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

### **Specific target organ toxicity - repeated exposure**

No data available

### **Aspiration hazard**

No data available

### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Activated sludge respiration inhibition test, EC50 value > 1000mg/L

Algae growth inhibition test, EC50 value > 100mg/L

### **12.2 Persistence and degradability**

Not easily biodegradable

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **12.6 Other adverse effects**

No data available

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### **Contaminated packaging**

Dispose of as unused product.

## **SECTION 14: Transport information**

### **DOT (US)**

Not dangerous goods

### **IMDG**

Not dangerous goods

### **IATA**

Not dangerous goods

## **SECTION 15: Regulatory information**

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

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **SARA 311/312 Hazards**

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Acute Health Hazard

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**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**SECTION 16: Other information**

**Full text of H-Statements referred to under sections 2 and 3.**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Inovia Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.inoviamaterials.com](http://www.inoviamaterials.com) and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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