

ZHEJIANG NOAH FLUOROCHEMICAL CO., LTD

SAFETY DATA SHEET

# SDS

Noah 5112/Perfluoro (2-methyl-3-pentanone)

Edition: A/4

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Noah 5112/Perfluoro (2-methyl-3-pentanone).  
**Company Name:** Zhejiang Noah Fluorochemical Co., Ltd.  
**Company Address:** No.6 Weft Nine Road, Shangyu Economic Development Zone, Hangzhou Bay, Shaoxing City, Zhejiang Province, China.  
**Post Code:** 312300  
**Web:** www.zjnoah.cn  
**Fax:** 0086-575-82157561  
**Tel:** 0086-575-82738216  
**Emergency Tel:** 0086-575-82723283  
**Recommended and Restricted use of the Chemical:**  
Fully submerged fluid extinguishing agent.  
**Data Sheet Code:**  
**Effective Date:** Apr. 17<sup>th</sup>, 2023

## Section 2: HAZARD IDENTIFICATION

**Emergency Overview:**

Seek medical attention if you feel unwell.

**Label Elements:** Not applicable.

**Pictograms:** Not applicable.

**Warnings:** Not applicable.

**Hazard Statement:** H412 Harmful to aquatic life and has long lasting effects.

**Precaution:** P202 Do not operate until you have read and understood all safety precautions.

**Incident Response:** P391 Collection of spills.

**Safe Storage:** P233 + P403 Keep container tightly closed. Store in a well-ventilated place.

**Disposal:**

P501 Disposal of this product and container should be carried out in accordance with local, regional, national, and international regulations.

**Physical and Chemical Hazards:**

This product does not have the physical hazards covered by GHS, please see section 9 and 10 for more information.

**Health Hazards:**

There is no known GHS hazard classification for this product, please see section 11 for more information.

**Environmental Hazards:**

Harmful to aquatic life and has long lasting effects.

**Other Hazards:** No data.

### Section 3: INGREDIENTS

**Chemical Name:** Noah 5112/ Perfluoro (2-methyl-3-pentanone)

Component	Mass concentration	CAS NO.
Perfluoro (2-methyl-3-pentanone)	≥99.9	756-13-8

### Section 4: FIRST AID MEASURES

**Inhalation:**

May be harmful if inhalation. Move the patient to fresh air. If you feel unwell, seek medical attention immediately.

**Ingestion:**

If you feel unwell, gargle with warm water and seek medical advice.

**Skin Contact:**

Rinse the skin thoroughly with soap and water. If you feel unwell, seek medical attention.

**Eye Contact:**

Lift the eyelid and rinse with running water for at least 15 minutes, if wearing contact lenses, please take off and then rinse. Seek medical attention if you feel unwell.

**The Most Important Symptoms and Health Effect:** No data.

**Advice for Protecting Rescuers:**

Personal protective equipment should be used when entering the scene of the accident.

**Special Note to Doctors:** Treat symptomatically.

### Section 5: FIRE-FIGHTING MEASURES

**Extinguishing Agent:** The product is an extinguishing agent.

**Special Hazards:** Thermal decomposition in contact with acute heat: carbon monoxide, carbon dioxide, hydrogen fluoride, toxic vapors and gases.

**Fire-fighting Precautions and Protective Measures:** Wear protective equipment and self-contained breathing apparatus (SCBA). Avoid inhaling products and thermal decomposition products or other substances in the fire area. When the container is exposed, spray the container

with water to keep it cool to avoid breakage. Pay attention to the stability and reactivity of harmful thermal decomposition products.

## Section 6: ACCIDENTAL RELEASE MEASURES

### **Personal Protective Measures, Protective Equipment and Emergency Procedures:**

Use protective equipment. Ensure adequate ventilation. Avoid inhaling large amount of vapor. Cut off the source of leakage as much as possible. Ensure that people stay away from the leakage area or stay in the upwind direction of the leakage area. Unrelated persons are prohibited from entering. It is recommended that emergency responders wear air-carrying breathing apparatus and rubber oil-resistant gloves. Delimit the warning area according to the affected area of liquid flow and steam diffusion.

### **Environmental Protection Measures:**

If it can be operated safely, prevent further leakage. Avoid the product entering the drain, surface water, and underground water.

### **The Containment and Cleaning Methods of Leaked Chemicals and Disposal Materials Used:**

For larger leaks, the drainage ditch should be filled and build dikes to prevent the product from entering drainage system. Collect the residue containing the product as soon as possible and transport to the place permitted by the relevant authorities for disposal. From the edge of the leakage area to the inward treatment. Cover with bentonite, vermiculite or commercially available inorganic absorbent material. Mix well with these absorbers until dry. Collect as much of the spill as you can. Wash the residue with detergent and water. Seal the container well. When discharging this material, the user needs to verify that it is reported in accordance with local, state, and federal regulations.

### **Preventive Measures for Secondary Disasters:**

Prevent leaks from entering sewers, surface water and groundwater.

## Section 7: HANDLING AND STORAGE

### **Operational Disposal:**

Operators should be trained and strictly abide by the operating procedures. It is recommended that operators wear general work protective clothing and suitable chemical protective gloves. Avoid inhaling steam. The contents may be under pressure, be careful not to inhale thermal decomposition products when opening. The workplace should have ventilation systems and equipment. Wash hands and face thoroughly after operation. Be light when handling to prevent the package from breaking and causing losses. Equipped with corresponding types and quantities of leakage emergency treatment equipment.

### **Storage:**

Storage and transportation requirements shall be handled as non-dangerous goods, and follow the industry's conventional storage and transportation requirements. And the container should be stored in a clean, ventilated, and dry warehouse. Avoid direct sunlight, heat sources, and

strong bases, amines and alcohols. And use appropriate labels. Use appropriate labels, spill emergency treatment equipment and appropriate containment materials.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational exposure limits:** TWA: 150ppm (1935 mg·m<sup>-3</sup>).

### Engineering Control:

Local exhaust ventilation shall be provided over open containers. In cases where material is exposed to extreme heat due to misoperation or equipment failure, the use of a container with a local exhaust port is sufficient to ensure that the thermal decomposition product is below explosive levels. Use ordinary dilution ventilation and local exhaust ventilation to keep airborne hazardous substances (dust/smoke/gas/smoke/steam/spray) below the relevant exposure limits. If ventilation is insufficient, wear respiratory protective equipment.

### Personal Protective Equipment:

**Respiratory Protection:** As a good industrial hygiene rule: avoid inhaling steam, mist or spray. Not required under normal service conditions. If thermal decomposition occurs, do not inhale the vapor and wear a respirator. According to the concentration of pollutants in the air, choose a half mask or full mask type respirator. Based on the exposure assessment results, respiratory protection was selected to prevent respiratory exposure. Consult the respirator manufacturer to select the appropriate respirator.

**Hand Protection:** It is recommended to wear suitable protective gloves.

**Eye Protection:** Goggles.

**Skin and Body Protection:** Wear protective clothing in case of emergency.

### Other Measures:

Local regulations on normal protection of chemical handling and industrial hygiene must be followed and thermal decomposition products must not be inhaled.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Properties:</b>	Colorless transparent liquid.
<b>Odor:</b>	Odorless.
<b>pH:</b>	Not applicable.
<b>Freezing Point:</b>	-108 °C.
<b>Boiling Point:</b>	49.2 °C.
<b>Saturated Vapor Pressure:</b>	44.4 kPa (25 °C).
<b>Vapor Density:</b>	No data.
<b>Density:</b>	1.601 g·mL <sup>-1</sup> (25 °C).
<b>Insulation performance (110 kV):</b>	3.8 mA
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Temperature:</b>	Not applicable.
<b>Flash Point (Closed Cup):</b>	No flash point.

<b>Upper and Lower Flammability Limit or Explosion Limit:</b>	No data.
<b>Kinematic Viscosity:</b>	0.4014 mm <sup>2</sup> ·s <sup>-1</sup> (25 °C).
<b>GWP:</b>	< 1.
<b>ODP:</b>	0.
<b>Atmospheric Lifetimes (day):</b>	5.

## Section 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Incompatible Materials:</b>	Strong bases, amines and alcohols.
<b>Conditions to Avoid:</b>	Sunlight.
<b>Aggregating harm:</b>	No.
<b>Hazardous Decomposition Products:</b>	CO, CO <sub>2</sub> , HF, toxic vapors, gases, particulates.

## Section 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity:

Acute dermal toxicity, no lethal dose LD<sub>50</sub>>2000 mg·kg<sup>-1</sup> (big mouse);

Acute inhalation toxicity, no lethal dose LC<sub>50</sub> (4 h) > 20528.0 mg·m<sup>-3</sup>;

Acute imported toxicity, no lethal dose LD<sub>50</sub> > 5000 mg·kg<sup>-1</sup>.

**Skin Corrosion/Irritation:** No irritation to rabbit skin.

**Serious Eye Damage/Eye Irritation:** No irritation to rabbit eyes.

**Respiratory Tract Sensitization:** For this product component, no reference data are known or current data are insufficient for classification.

**Skin Sensitization:** For this product component, no reference data are known or current data are insufficient for classification.

**Germ Cell Mutagenicity:** For this product component, no reference data are known or current data are insufficient for classification.

### Bacterial Reverse Mutation Test:

For this product component, no reference data are known or current data are insufficient for classification.

### In Vitro Mammalian Cell Chromosome Aberration Test:

For this product component, no reference data are known or current data are insufficient for classification.

### Mammalian Erythrocyte Micronucleus Test:

For this product component, no reference data are known or current data are insufficient for classification.

**In Vitro Mammalian Cell Gene Mutation Test:**

For this product component, no reference data are known or current data are insufficient for classification.

**Rodent 28-day Repeated Dose Oral Toxicity:** For this product component, no reference data are known or current data are insufficient for classification.

**Sub-chronic (90 days) Inhalation Toxicity Test:** For this product component, no reference data are known or current data are insufficient for classification.

**Inhalation Hazard:** For this product component, no reference data are known or current data are insufficient for classification.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** For this product component, no reference data are known or current data are insufficient for classification.

**Persistence and Degradability:** For this product component, no reference data are known or current data are insufficient for classification.

**Potential Bioaccumulation:** For this product component, no reference data are known or current data are insufficient for classification.

**Mobility in Soil:** For this product component, no reference data are known or current data are insufficient for classification.

**Life cycle of environmental impacts:** For this product component, no reference data are known or current data are insufficient for classification.

## Section 13: DISPOSAL CONSIDERATIONS

**Waste Chemicals:**

Dispose of waste in licensed industrial waste disposal facilities. Incineration in a licensed waste incineration facility as one of the options for waste disposal. Proper destruction may use additional fuel in the incineration process. Thermal decomposition products include HF and equipment must be capable of handling halogenated materials.

**Contaminated Packaging:**

Consult the competent authorities to determine available treatment and disposal facilities.

## Section 14: TRANSPORT INFORMATION

**Transportation precautions:**

During transportation, it is necessary to ensure that the container does not leak, collapse, fall, damage, invert, or shock violently. Direct sunlight and liquid water such as rain should be avoid during transportation.

## Section 15: REGULATORY INFORMATION

**The following laws, regulations, rules and standards have made corresponding provisions on the management of this product:**

“Environmental Management Measures for New Chemical Substances” (Ministry of Environmental Protection Decree No. 7 of 2010): Not listed.

“Regulations on the Safety Management of Hazardous Chemicals”:

“Dangerous Chemicals Catalogue” (2015 Edition): Not listed.

“GB18218-2009 Identification of Major Hazard Sources of Hazardous Chemicals”:

Not listed.

“Regulations on Labor Protection in Workplaces where Toxic Substances are used” (Order 352 of The State Council in 2002):

Not listed.

## Section 16: OTHER INFORMATION

**Created Date:** July 11, 2018.

**Revision Date:** April 17, 2023.

**Revision Department:**

Zhejiang Noah Fluorochemical Co., Ltd. Tel (Fax): +86-575-82737216/82737216.

**Revision Information:** 3st revision.

**Standards:** This SDS is compiled in accordance with GB/T 16483-2008 "Chemical Safety Technical Specification Content and Item Sequence" (Compiling Guide: GB/T 17519-2013 "Chemical Safety Technical Specification Compilation Guide").

**Abbreviations and Acronyms:** CAS: American Chemical Abstracts Service, LD<sub>50</sub>: Half Lethal Concentration, LC<sub>50</sub>: Half Lethal Concentration, RID: International Rail Transport Dangerous Goods Regulations, TWA: Time-weighted Average.

**Other Information:** This SDS is compiled based on the ingredient content and other information provided by the applicant and our company's existing knowledge, and is only used as a guide. Users of this SDS must make independent judgments on the correctness and completeness of the content, determine its applicability based on the actual situation, and bear relevant legal responsibilities for the consequences of use.