



安徽艾约塔硅油有限公司

Iota Silicone Oil(Anhui) Co.,Ltd.

安徽省蚌埠市高新区兴中路 985 号日月科技园

Sunmoon industry park, 985 Xingzhong Road, Bengbu, China 233000

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**IOTA SILICONE OIL(ANHUI) CO.,LTD.**

**Material Safety Data Sheet**

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Revision Date: 2018/05/25

**silicone oil**

**1. IDENTIFICATION OF THE CHEMICAL AND OF THE COMPANY**

Product Name: silicone oil

Product Model:

IOTA 556	IOTA AKT	IOTA BJ1000	IOTA BJ200	IOTA BJ437	IOTA 255A	IOTA 255B	IOTA BJ710	IOTA BJ550	IOTA BJ510
IOTA 705	IOTA 704	IOTA 702	IOTA 704	IOTA 231	IOTA 232	IOTA 234	IOTA 235	IOTA 2238	IOTA 253
IOTA 252	IOTA R05	IOTA 2207	IOTA 279	IOTA 278	IOTA 56A	IOTA 54	IOTA 250-30		

Company Details:

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MSDS No.: IOTA014000556

Generic Description: Silicone

Physical Form: Liquid

Color: Colorless to pale yellow transparent

Odor: Tasteless to mild odor

NFPA Profile: Health 0 Flammability 1 Instability/Reactivity 0

Note: NFPA=National Fire Protection Association

**2. HAZARDS IDENTIFICATION**

**POTENTIAL HEALTH EFFECTS**

**Acute Effects**

Eye: Direct contact may cause temporary redness and discomfort.

Skin: No significant irritation expected from a single short-term exposure.

Inhalation: No significant effects expected from a single short-term exposure.

Oral: Low ingestion hazard in normal.

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#### **Prolong/Repeated Exposure Effects**

Skin: No known applicable information.

Inhalation: No known applicable information.

Oral: No known applicable information.

#### **Signs and Symptoms of Overexposure**

No known applicable information.

#### **Medical Conditions Aggravated by Exposure**

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

None present. This is not a hazardous material as defined in the OSHA Hazard Communication Standard.

### **4. FIRST AID MEASURES**

Eye: If irritation occurs, flush eye(s) with lukewarm gently flowing water for 5 minutes. Obtain medical attention.

Skin: No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

Oral: If irritation or discomfort occur, obtain medical advice.

Notes to Physician: Treat according to person's condition and specifics of exposure.

### **5. FIRE FIGHTING MEASURES**

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Flash point:	≥100°C
Autoignition Temperature:	Not determined.
Flammability limits in Air:	Not determined.
Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide(CO <sub>2</sub> ),dry chemical or water spray. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	None.

**6. ACCIDENTAL**

**RELEASE MEASURES**

Containment/Clean up: Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of stream, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

**7. HANDLING AND STORAGE**

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Use with adequate ventilation. Traces of benzene(carcinogen) may form if heated in air above 149°C. Provide ventilation to control exposure within inhalation guidelines when handling at elevated temperatures.

Review the OSHA benzene regulation for detailed information on safe handling requirements. Avoid eye contact.

Use reasonable care and store away from oxidizing materials.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

There are no components with workplace exposure limits.

**Engineering Controls**

Local Ventilation: None should be needed.

General Ventilation: Recommended.

**Personal Protective Equipment for Routing Handling**

Eyes: Use proper protection-safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate.

Suitable Gloves: Handle in accordance with good industrial hygiene and safety practices.

Inhalation: No respiratory protection should be needed.

Suitable Respirator: No should be needed.

**Personal Protective Equipment for Spills**

Eyes: Use proper protection-safety glasses as a minimum.

Skin: Washing at mealtime and end of shift is adequate.

Inhalation/Suitable

Respirator: No should be needed.

Precautionary Measures: Avoid eye contact. Use reasonable care.

Comments: Traces of benzene(carcinogen) may form if heated in air above 149°C. Provide

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ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com)) or contact the IOTA customer service group.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical Form:	Liquid
Color:	Colorless to pale yellow transparent
Odor:	Tasteless to mild odor
Specific Gravity(25°C):	0.90-1.1
Flash point(open cup), °C:	≥100
Fire point, °C:	Not Determined
Vapor tension at 200°C, Pa:	Not Determined
Vapor Density:	Not Determined
Refractive index at 25°C:	1.4-1.6
Autoignition Temperature:	Not Determined
Flammability Limits in Air:	Not Determined

Note: The above information is not intended for use in preparing product specifications. Contact IOTA before writing specifications.

**10. STABILITY AND REACTIVITY**

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	None.
Materials to Avoid:	Oxidizing material can cause a reaction.



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**Hazardous Decomposition Products:**

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

**11. TOXICOLOGICAL INFORMATION**

**Special Hazard Information on Components**

No known applicable information.

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution**

Complete information is not yet available.

**Environmental Effects**

Complete information is not yet available.

**Fate and Effects in Waste Water Treatment Plants**

Complete information is not yet available.

**Ecotoxicity Classification Criteria**

Hazard Parameters(LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity(mg/L)	<=1	>1and<=100	>100
Acute Terrestrial Toxicity	<=100	>100and<=2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179,p.34,1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above.

Please read the other information presented in the section concerning the overall ecological safety of this material.

**13. DISPOSAL CONSIDERATIONS**

**RCRA Hazard Class(40 CFR 261)**

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes State

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or local laws may impose additional regulatory requirements regarding disposal. Contact IOTA office, if additional information is required.

#### **14. TRANSPORT INFORMATION**

##### **DOT Road Shipment Information (49 CFR 172.101)**

Not subject to DOT.

##### **Ocean Shipment(IMDG)**

Not subject to IMDG code.

##### **Air Shipment(IATA)**

Not subject to IATA regulations.

#### **15. REGULATORY INFORMATION**

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

##### **EPA SARA Title III Chemical Listings**

###### **Section 302 Extremely Hazardous Substances(40 CFR 355):**

None.

###### **Section 304 CERCLA Hazardous Substances(40 CFR 302):**

None.

###### **Section 311/312 Hazard Class(40 CFR 370):**

Acute: No

Chronic: No

Fire: No

Pressure: No

Reactive: No

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**Section 313 Toxic Chemicals(40 CFR 372):**

None present or none present in regulated quantities.

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

**16. OTHER INFORMATION**

Prepared by: Iota Silicone Oil (Anhui) Co., Ltd

These data are offered in good faith as typical values and not as product specifications. No warranty, either expresses or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.