



TEST REPORT

LAB LOCATION: Norwood, MA, USA
REPORT NUMBER: 67320-050030 Rev 1

ISSUE DATE: January 14, 2021
PAGE: Page 1 of 2

Applicant : Thames & Kosmos LLC
Sample Description : Silicone Lubricant (Poly(Dimethylsiloxane)) - (Component of Mega Cyborg Hand)
Date of Submission : January 12, 2020
Test Performance Dates : January 12, 2020 – January 14, 2021

TEST RESULTS SUMMARY	
Test Requested	Results
Safety Data Sheet (US)	Please refer to the report.

For and on behalf of
Modern Testing Services, LLC

Jongsei Park, Ph.D.
Fellow, Academy of Toxicological Sciences
UK Register of Toxicologists
European Registered Toxicologist (ERT)
Diplomate, American Board of Forensic Toxicology
CLD, American Board of Bioanalysis

This Test Report is used by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the limitations of liability, indemnification and jurisdictional issue defined therein. The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full, without prior written permission of the Company.



TEST REPORT

LAB LOCATION: Norwood, MA, USA
REPORT NUMBER: 67320-050030 Rev 1

ISSUE DATE: January 14, 2021
PAGE: Page 2 of 2

PHOTOGRAPH OF SUBMITTED SAMPLE



Note:

If there are questions or concerns regarding the test results, please contact:

Jongsei Park (Ph.D; CEO; Chemist/Toxicologist)
Tel. 508-638-1793
Mobile 508-208-5994
Fax 508-638-1759
Email jongsei.park@moderntestingservices.com

This test report is governed by the Terms and Conditions, available on request or accessible at <http://www.mts-global.com/en/terms.html>. Attention is especially drawn to the limitations of liability, indemnification and jurisdictional provisions defined therein. This report is issued strictly based on the testing of the samples submitted by you. The test results in this report refer only to the sample(s) actually tested and do not refer or be deemed to refer to any bulk production from which such sample(s) may be said to have been obtained. In the event that MTS was requested to survey and test any bulk production quantity of samples, MTS, in the absence of any contrary written instructions, performed random sampling of bulk production for testing purposes. Variations in the conditions under which samples are stored, transported, etc., may lead to variations in the test results. MTS cannot anticipate and shall not be held responsible for variations in test results that may be due to factors beyond MTS' control, such as, sample cross-contamination, evaporation of volatile substances due to storage temperature, humidity, etc. This report does not constitute a recommendation, actual or implied, for any specific course of action. Other than the expressed warranties made in the Terms and Conditions of the MTS Test Request Form, MTS makes no warranties or representations either express or implied with respect to this report. In no circumstances whatsoever shall MTS be liable for any consequential, special or incidental damages arising out of, or in connection with, this report.



67320-050030 Rev 1

US SAFETY DATA SHEET
In accordance with Occupational Safety and Health Act (1970)
Hazard Communication Standard 2012 (29 CFR 1910-1200) (HazCom 2012)
(Based on UN GHS/CLP)



SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers:

Product Name: Silicone Lubricant (Poly(Dimethylsiloxane)) - Component of Mega Cyborg Hand (Colors: Colorless)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Identified Uses: Component of Mega Cyborg Hand

1.3 Details of the supplier of the safety data sheet

Company: Modern Testing Services, LLC
349 Lenox Street
Norwood, MA 02062, USA

Telephone: 1-508-638-1793
Fax: 1-508-638-1759

1.4 Details of the applicant of the safety data sheet

Company: Thames & Kosmos LLC
89 Ship Street
Providence, RI 02903
Telephone: Phone: 1-800-587-2872
Fax: 1-401-459-6775
Email: products@thamesandkosmos.com

Emergency Telephone Number: (US Poison Control) 1-800-222-1222

SECTION 2 – HAZARDS IDENTIFICATION

OSHA/HCS Status: This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

2.1 Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity: Not Classified
Skin irritation: Not Classified
Eye irritation: Not Classified
Respiratory sensitization: Not Classified
Skin sensitization: Not Classified
Specific target organ toxicity: Not Classified

2.2 GHS Label elements, including precautionary statements

Pictogram: Not Needed
Signal Word: Not Needed
Hazard Statement(s): Not Needed
Precautionary Statement(s): Not Needed

- 2.3 **Hazards not otherwise classified (HNOC) or not covered by GHS**
None.

SECTION 3 – COMPOSITION ON INGREDIENTS

- 3.1 **Substances**
The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 – FIRST AID MEASURES

4.1 **Description of first aid measures**

General advice

This product is not expected to produce any unusual hazards during normal use. If you feel unwell, seek medical advice. Consult a physician.

If inhaled

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

In case of skin contact

Wash with water and soap and rinse thoroughly after use. Obtain medical attention if irritation occurs, develops or persists.

In case of eye contact

Rinse immediately with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Do not rub eyes and seek medical advice if irritation develops or persists.

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**

Under normal conditions of intended use, this product is not expected to be a health risk.

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

No additional information available.

SECTION 5 – FIREFIGHTING MEASURES

5.1 **Extinguishing media**

Suitable extinguishing media

Use water spray, dry chemical, carbon dioxide, or chemical foam.

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

No additional information available.

5.3 **Advice for firefighters**

Precautionary measures

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Fire-fighting equipment/instructions

Exercise caution when fighting any chemical fire.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection.

5.4 **Further information**

None.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

General Measures

Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust or fumes. Avoid skin and eye contact.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2 Environmental precautions

Avoid discharge to drains, sewers, and other water systems.

6.3 Methods and materials for containment and cleaning up

Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal.

6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Open and handle container with care.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store away from water or moisture.

7.3 Specific end use(s)

No further information available.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not Known

8.2 Exposure controls

Appropriate engineering controls

None needed.

Personal protective equipment

Eye/face protection

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin protection

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Gloves: Natural rubber, Neoprene, PVC or equivalent.

Body protection

Protective clothing is not required under normal conditions.

Respiratory Protection

No respirator is required under normal conditions of use.

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Control of environmental exposure

Not needed.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Keep away from foodstuffs, beverages and food.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

a) Appearance	Liquid
b) Colour	Colorless
c) Odour	Odorless
d) Odour Threshold	Not Determined
e) pH	Not Determined
f) Melting point/freezing	Not Determined
g) Initial boiling point and boiling range	Not Determined
h) Flash point	330 C
i) Evaporation rate	Not Determined
j) Flammability (solid/gas)	Not flammable
k) Upper/lower flammability or explosive limits	Not Determined
l) Vapour pressure	Not Determined
m) Vapour density	Not Determined
n) Relative density	Not Determined
o) Water solubility	Not Determined
p) Partition coefficient: n-octanol/water	Not Determined
q) Auto-ignition temperature	Not Determined
r) Decomposition temperature	Not Determined
s) Viscosity	Not Determined
t) Explosive properties	Not Determined
u) Oxidizing properties	Not Determined

9.2 Other safety information

None.

SECTION 10 – STABILITY AND REACTIVITY**10.1 Precautions for safe handling**

Not known.

10.2 Chemical stability

Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions**
Not known.
- 10.4 Conditions to avoid**
Excessive heat, water and moisture.
- 10.5 Incompatible materials**
Strong oxidizing agents.
- 10.6 Hazardous decomposition products**
Not known.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Not known.

Skin corrosion/irritation

May cause skin irritation.

Serious eye damage/eye irritation

May cause eye irritation.

Respiratory or skin sensitisation

Not known.

Germ cell mutagenicity

Not known.

Carcinogenicity

IARC: Not known.
ACGIH: Not known.
NTP: Not known.
OSHA: Not known.

Reproductive toxicity

Not known.

Specific target organ toxicity-single exposure

Not known.

Specific target organ toxicity-repeated exposure

Not known.

Aspiration hazard

Not known.

Additional information

None.

SECTION 12 – ECOLOGICAL INFORMATION

- 12.1 Toxicity**
Avoid release to the environment.
- 12.2 Persistence and degradability**
Not known.
- 12.3 Bioaccumulative potential**
Not known.
- 12.4 Mobility in soil**
Not known.
- 12.5 Results of PBT and vPvB assessment**
Not known.
- 12.6 Other adverse effects**
Not known.

SECTION 13 – DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Dispose of in a manner consistent with Federal, State and Local Regulations.

Contaminated packaging

Destroy at an authorized site. Follow general procedures consistent with Federal, State and Local Regulations.

SECTION 14 – TRANSPORT INFORMATION**DOT (US)**

UN number: Not Assigned Class: Not Assigned Packing group: Not Assigned
Proper shipping name: Not Assigned

IMDG

UN number: Not Assigned Class: Not Assigned Packing group: Not Assigned
Proper shipping name: Not Assigned

IATA

UN number: Not Assigned Class: Not Assigned Packing group: Not Assigned
Proper shipping name: Not Assigned

SECTION 15 – REGULATORY INFORMATION**SARA 302 Components**

None are listed.

SARA 313 Components

None are listed.

SARA 311/312 Hazards

None are listed.

Massachusetts Right To Know Components

None.

Pennsylvania Right To Know Components

None.

New Jersey Right To Know Components

None.

California Prop. 65 Components

None.

SECTION 16 – OTHER INFORMATION

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

None.

HMIS Rating

Health hazard:	0
Flammability:	0
Physical hazard:	0

NFPA Rating

Health hazard:	0
Fire hazard:	0
Reactivity hazard:	0

Containers of materials larger than one ounce must have full precautionary labeling as determined by manufacturer. No other precautionary labeling is deemed necessary. Where containers materials which require warning, labels are packed in a point of sale packaging which obscures the warning statement, the point of sale package must have the signal word and the following wording: "Read cautions on individual containers carefully".

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. MTS-US LLC and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

January 14, 2021