

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Name:

Tetraethyl Orthosilicate (and) PEG-40 Hydrogenated Castor Oil (and) Polysorbate 80

**Product identifier:** Iulii MMXII

### Other means of Identification

**Synonym:** 712

---

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

#### Relevant identified uses:

Cosmetics

#### Uses advised against:

External use only

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

#### Supplier:

712 Labs, LLC

111 Smith Hines Road, Suite E, Greenville, SC 29607

#### E-Mail Address

sherri.daniel@orbishealthsolutions.com

### 1.4 EMERGENCY TELEPHONE NUMBER:

Chemtrec TBD

---

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture:

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

Flammable liquids

Category 3, H226

Acute toxicity, Inhalation

Category 3, H331

Eye irritation

Category 2A, H319

Specific target organ toxicity - single exposure

Category 3, Respiratory system, H335

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

---

### 2.2 Label elements



Pictogram

GHS02, GHS07

**Signal word**

Warning

**Hazard Statements**

H226 Flammable liquid and vapor.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.

**Precautionary Statements****Prevention**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store lock up.  
P501 Dispose of Content/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**

Trade name	Synonyms	Weight %	CAS #	Trade Secret
Tetraethyl orthosilicate	TEOS	Withheld	78-10-4	No
Polyoxyethylene sorbitan monooleate	Polysorbate 80	Withheld	9005-65-6	No
Peg-40 Hydrogenated Castor oil	HCO-40	Withheld	11138-66-2	No

**3.2 Mixtures****Description of the mixture:**

Anhydrous solution of tetraethyl orthosilicate, polyoxyethylene sorbitan monooleate, PEG-40 hydrogenated castor oil

**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. Move out of dangerous area.

**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 immediately with soap and plenty of water. Seek medical attention if symptoms occur.

**In case of eye contact**

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

**If swallowed**

Do NOT induce vomiting. Rinse mouth. Seek medical attention.

**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****Notes to Physician**

Treat symptomatically

---

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

**Unsuitable extinguishing media**

No information available

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

Carbon oxides, silicon oxides.

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. Use water spray to cool unopened containers.

---

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment as required. Remove all sources of ignition. Take precautionary measures against discharges.

**6.2 Environmental precautions**

Should not be released into the environment and surface water. See Section 12 for additional Ecological Information.

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

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

---

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice. Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat, sparks and flame.

**7.3 Specific end use(s)**

Risk Management Methods (RMM)- The information required is contained in this Material Safety Data Sheet.

---

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limits**

Exposure guidelines are not relevant when product is used as intended in a household setting.

**Biological limit values**

Not applicable

**Exposure limits at intended use**

Exposure guidelines are not relevant when product is used as intended in a household setting.

---

**8.2 Exposure controls****Appropriate engineering controls**

No information available

**Personal protective equipment****Eye / Face protection**Suitable eye protection

Manufacturing Sites: Wear safety glasses with side shields (or goggles)

Distribution, Workplace and Household Settings: No special protective equipment required

Other eye protection measures

None

**Skin protection**Hand protection

No special protective equipment required

Body protection

No special protective equipment required

Other skin protection measures

No special protective equipment required

**Respiratory protection**

No special protective equipment required

---

**SECTION 9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>Appearance:</b>	Opaque, cloudy
<b>Physical state:</b>	Liquid
<b>Color:</b>	Yellow
<b>Odor:</b>	Nondescript

pH	No available data
Melting point/freezing point	No available data
Initial boiling point/boiling range	No available data
Flash point	No available data
Evaporation rate	No available data
Flammability (solid, gas)	No available data
Upper/lower flammability or explosive limits	
Upper explosive limits	No available data
Lower explosive limits	No available data
Vapour pressure	No available data
Vapour density	No available data
Relative density	No available data
Solubility(ies)	No available data

Partition coefficient: n-octanol/water	No available data
Auto-ignition temperature	No available data
Decomposition temperature	No available data
Viscosity	
Viscosity, dynamic	20 cP
Viscosity, kinematic	20.12 cSt
Explosive properties	No available data
Oxidising properties	No available data

---

**SECTION 10: Stability and reactivity****10.1 Reactivity**

None under normal use conditions.

**10.2 Chemical stability**

Moisture sensitive. Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid:**

Extreme temperatures and direct sunlight. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition. Exposure to moisture.

**10.5 Incompatible materials:**

Strong oxidizing agents, Strong acids

**10.6 Hazardous decomposition products:**

Hazardous decomposition products formed under fire conditions. -Carbon oxides, silicon oxides.  
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**

No known effect

**Skin corrosion/irritation****Practical experience / human evidence**

No known effect

**Eye damage/irritation**

No known effect

**Sensitization to the respiratory tract/skin**

No known effect

**Sensitization to the respiratory tract**

No known effect

**Skin sensitization**

No known effect

**Germ cell mutagenicity**

No known effect

**Carcinogenicity**

No known effect

**Reproductive toxicity**

No known effect

**Specific target organ toxicity (single exposure)****STOT SE 1 and 2**

No known effect

**STOT SE 3**

No known effect

**Irritation to respiratory tract**

No known effect

**Narcotic effects**

No known effect

**Specific target organ toxicity (repeated exposure)****STOT RE 1 and 2**

No known effect

**Aspiration hazard**

No known effect

**Symptoms related to the physical, chemical and toxicological characteristics:****In case of ingestion**

No known effect

**In case of skin contact:**

No known effect

**In case of inhalation:**

No known effect

**In case of eye contact:**

No known effect

---

**SECTION 12: Ecological information***The product is not expected to be hazardous to the environment.***12.1 Toxicity:**

**Aquatic toxicity**

No information available.

**Sediment toxicity**

No information available.

**12.2 Persistence and degradability****Biodegradation**

No information available.

**Abiotic Degradation**

No information available.

**12.3 Bioaccumulative potential****Bioconcentration factor (BCF)**

No information available.

**12.4 Mobility in soil**

No information available.

**12.5 Other Adverse Effects**

No information available.

---

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

---

**SECTION 14: Transport information**

**DOT:** Not regulated

**IMDG:** Not regulated

**IATA:** Not regulated

---

**SECTION 15: Regulatory information**

No information available

---

**SECTION 16: Other information**



Version: 1.0  
Prepared by

Page 9 of 9  
Dani Zwanziger

Revision date: 07.14.2020

**Issuing Date**

14-Jul-2020

**Recommendations on use**

Cosmetics and personal care applications

*Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text*

End of SDS