

Issue Date 22-Mar-2016

# **SAFETY DATA SHEET**

Version 1

 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

 Product identifier

 Product Name
 WaxCast

 Recommended use of the chemical and restrictions on use

 Recommended Use
 UV cure resin for direct investment casting applications

 Uses advised against
 No information available

 Details of the supplier of the safety data sheet

 Manufacturer Address

 MakerJuice Labs LLC

 7889 Mastin Drive

 Overland Park, KS 66204 USA

Revision Date 15-Apr-2016

Email: support@makerjuice.com Website: http://www.makerjuice.com

Emergency telephone number Company Phone Number

(913) 777-4996 [9-5PM CST, M-F]

# 2. HAZARDS IDENTIFICATION

# **Classification**

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

# Label elements

# **Emergency Overview**

# Warning Hazard statements Causes serious eye irritation May cause an allergic skin reaction Image: Comparison of the series of th

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace

# **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not Applicable

# Other Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity Caution - This mixture contains a substance not yet fully tested. Due to the structure of the substance and studies made on similar substances the substance is unclassified.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
acrylate ester	proprietary	>=60	*
photoinitiator	proprietary	<=1	*
cross-linking agent	proprietary	<=1	
stabilizer	proprietary	<=1	

\* If CAS number is "proprietary", the specific chemical identity has been withheld as a trade secret. The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

First aid measures		
General advice	If symptoms persist, call a physician.	
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.	
Skin Contact	Avoid UV-radiation/sunlight. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse.	
Inhalation	If fumes from reactions are inhaled, move to fresh air immediately. If symptoms persist, call a physician.	
Ingestion	Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Call a physician immediately.	
Self-protection of the first aider	Use personal protective equipment as required.	
Most important symptoms and effects, both acute and delayed		
Symptoms	May cause allergic skin reaction.	

# Indication of any immediate medical attention and special treatment needed

Note to physicians

May cause sensitization of susceptible persons. Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

# Suitable extinguishing media

Dry chemical, CO2, alcohol-resistant foam or water spray.

**Unsuitable extinguishing media** Do not use a solid water stream as it may scatter and spread fire.

### Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

# Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES
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# Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
Environmental precautions	
Environmental precautions	Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.
Methods and material for containme	nt and cleaning up
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

# 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling	Use only in well-ventilated areas. Avoid breathing fumes from hot material. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated	

place. Keep in properly labeled containers. Protect from direct sunlight and ultraviolet (UV). Keep away from heat.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational	
Appropriate engineering controls	exposure limits established by the region specific regulatory bodies.	
Engineering Controls	Ensure adequate ventilation, especially in confined areas.	
Individual protection measures, su	ch as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin and body protection	Wear protective nitrile rubber gloves.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
General Hygiene Considerations	When using do not eat, drink or smoke. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color

# Property pН Melting point/freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Specific Gravity** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density liquid viscous orange

### Values

No information available No information available No information available > 100 °C (> 212 °F) No information available No information available

No information available No information available No information available No information available No information available Low solubility No information available No information available No information available No information available 600cP No information available No information available

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# Remarks • Method

# **10. STABILITY AND REACTIVITY**

# Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

None under normal processing.

# Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight. To avoid thermal decomposition, do not overheat. UV-radiation/sunlight.

# Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

# **Hazardous Decomposition Products**

Possible decomposition and release of monomer at temperatures above 200°C (392°F).

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

# Product Information

Inhalation	No data available.
Eye contact	Causes serious eye irritation.
Skin Contact	May cause sensitization by skin contact.
Ingestion	No data available.

# Information on toxicological effects

Symptoms	May cause an allergic skin reaction.	
Delayed and immediate effects as v	vell as chronic effects from short and long-term exposure	
Corrosivity	Irritating to eyes.	
Sensitization	May cause sensitization by skin contact.	
Germ cell mutagenicity	No information available.	
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
STOT - single exposure	No information available.	
STOT - repeated exposure	No information available.	
Aspiration hazard	No information available.	
Numerical measures of toxicity - Product Information		
Unknown Acute Toxicity	0% of the mixture consists of ingredient(s) of unknown toxicity	

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

Harmful to aquatic life with long lasting effects

# Persistence and degradability

No information available.

# **Bioaccumulation**

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS		
Waste treatment methods		
Resin Curing	Resin is converted from a liquid state into a cured and hardened inert state by photo polymerization. Resin can also be converted from a liquid state into a cured and hardened inert state by raising the temperature above 350°F for one hour. Ensure proper ventilation is available to exhaust any fumes.	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.	
Contaminated packaging	Do not reuse container.	

14. TRANSPORT INFORMATION		
<u>DOT</u>	Not regulated	
<u>TDG</u>	Not regulated	
IATA	Not regulated	
IMDG	Not regulated	
ADR	Not regulated	
15. REGULATORY INFORMATION		

International Inventories	
TSCA	Complies

# **US Federal Regulations**

# **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

# SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# US State Regulations

# California Proposition 65

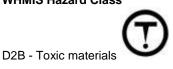
This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations

# Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR WHMIS Hazard Class



# **16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection X
Issue Date Revision Date	22-Mar-2016 22-Mar-2016			

# **Disclaimer**

The information provided in this Material 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 Safety Data Sheet**