

# SAFETY DATA SHEET

Issue Date 22-May-2014

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Version 1

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

Product identifier

Product Name SUBSTANCE SF

Other means of identification

Synonyms SubSF

Recommended use of the chemical and restrictions on use

**Recommended Use**General Purpose UV Cure Resin

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address MakerJuice Labs LLC 14100 Santa Fe Trail Drive Suite #105 Lenexa, KS 66215 USA

Email: josh@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)

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

### Label elements

# **Emergency Overview**

## Danger

### Hazard statements

Causes skin irritation Causes serious eye damage May cause an allergic skin reaction



Appearance viscous Physical state liquid Odor Ester

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should 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.

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

#### **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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
acrylate ester	proprietary	>60	*
photoinitiator	proprietary	<1	*

<sup>\*</sup> 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.

Hazardous combustion products: Formaldehyde.

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

#### Personal precautions, protective equipment and emergency procedures

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 containment and cleanup

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

exposure limits established by the region specific regulatory bodies.

# Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety 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,

@ 20 °C

work area and clothing is recommended.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state liquid

Flammability Limit in Air

AppearanceviscousOdorEster

Color red, yellow, green, blue, black, white Odor threshold No information available

Property Values Remarks • Method

pH No information available
Melting point/freezing point No information available
Boiling point / boiling range No information available
Flash point > 100 °C (> 212 °F)
Evaporation rate No information available
Flammability (solid, gas) No information available

Upper flammability limit: No information available
Lower flammability limit: No information available
Vapor pressure No information available
Vapor density No information available

Specific GravityApprox. 1Water solubilityLow solubility

Solubility in other solvents

Partition coefficient

Autoignition temperature

Decomposition temperature

Kinematic viscosity

No information available
No information available
No information available
No information available

Dynamic viscosity 555 cP

Explosive properties No information available Oxidizing properties No information available

Softening point

Molecular weight

VOC Content (%)

Density

No information available

## 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. UVradiation/sunlight.

#### **Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

## **Hazardous Decomposition Products**

Formaldehyde.

# 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

#### **Product Information**

Inhalation

No data available.

Eye contact

Risk of serious damage to eyes.

**Skin Contact** 

May cause sensitization by skin contact.

Ingestion No data available.

**Component Information** 

**Chemical Name** 

acrylate ester

Oral LD50 = 4600 mg/kg (Rat)

**Dermal LD50** > 2 g/kg (Rabbit) Inhalation LC50

#### Information on toxicological effects

**Symptoms** May cause an allergic skin reaction.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity Risk of serious damage to eyes. Sensitization May cause sensitization by skin contact.

Germ cell mutagenicity

No information available.

May release formaldehyde when heated to high temperatures [> 150 °C (> 212 °F)] in Carcinogenicity

the presence of air. Formaldehyde is a known skin and lung sensitizer and is regulated

as a carcinogen.

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**

Toxic to aquatic life

## Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

Other adverse effects No information available

# 13. DISPOSAL CONSIDERATIONS

# Waste treatment methods

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

**DOT** Not regulated

TDG Not regulated

<u>IATA</u> Not regulated

<u>IMDG</u> Not regulated

ADR Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

### **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 hazardYesChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

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#### 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



D2B - Toxic materials

## **16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards 2	Flammability 0	Instability 0	Physical and Chemical
				Properties -
<u>HMIS</u>	Health hazards 2	Flammability 0	Physical hazards 0	Personal protection X

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# 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**