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**SAFETY DATA SHEET**

**Issue Date** 13-May-2016 **Revision Date** 24-Oct-2019 **Version** 4

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**1. IDENTIFICATION**

**Product identifier**

**Product Name** Lythic Day 1

**Other means of identification**

**Product Code** DAY 1

**Document** DAY 1 RTU, Day 1 Concentrate

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Restricted to professional users.

**Uses advised against** Consumer use

**Details of the supplier of the safety data sheet**

**Company Phone Number** 800-624-0261 (US & Canada); 217-522-3112 (Outside North America)

**24 Hour Emergency Phone Number** 800-373-7542

**2. HAZARDS IDENTIFICATION**

**Classification**

**OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Label elements**

**Emergency Overview**

**Hazards not otherwise classified (HNOC)**

**Other Information**

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**DAY 1 Lythic Day 1**

**Supplier Address**

Solomon Colors, Inc.

4050 Color Plant Road

Springfield, IL

62702

**Manufacturer Address**

Solomon Colors, Inc.

4050 Color Plant Road

Springfield, IL

62702

Health injuries are not known or expected under normal use.

**Appearance** Cloudy liquid **Physical state** Liquid **Odor** Slight

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**Chemical Name CAS No. Weight-% Trade Secret**

Colloidal Silica Proprietary 10-60 \*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**Description of first aid measures**

**General advice** In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin Contact** Wash skin with soap and water.

**Inhalation** Remove to fresh air.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Caution: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products**Thermal decomposition can lead to the release of irritating gases and vapors. Carbon

monoxide. Carbon dioxide (CO2).

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Ensure adequate ventilation, especially in confined areas.

**Environmental precautions**

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**Environmental precautions** See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

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

**Storage Conditions** Store in a dry place. Keep at temperatures between 40 -100°F (4-38°C). Do not allow

product to freeze.

**Incompatible materials** None known based on information supplied.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

**Physical state** Liquid

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines** .

**Chemical Name ACGIH TLV OSHA PEL NIOSH IDLH**

Colloidal Silica - TWA: 20 mppcf

: (80)/(% SiO2) mg/m3 TWA

IDLH: 3000 mg/m3

TWA: 6 mg/m3

*NIOSH IDLH Immediately Dangerous to Life or Health*

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Showers

Eyewash stations

Ventilation systems.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be

required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**Appearance** Cloudy liquid **Odor** Slight

**Color** White **Odor threshold** No information available

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**Explosive properties** No information available

**Oxidizing properties** No information available

**Other Information**

**Softening point** No information available

**Molecular weight** No information available

**VOC Content (%)** None

**Density** 8.90 to 9.10 (@ 72° F)

**Bulk density** No information available

**10. STABILITY AND REACTIVITY**

**Reactivity**

**Chemical stability**

Acidic, Cationic, and salt materials may gel the product.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Do not mix with other material unless advised by supplier. Freezing conditions will damage product.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO2).

**Property Values Remarks • Method**

**pH** 9.5 to 10.5

**Melting point/freezing point** 0 °C / 32 °F

**Boiling point / boiling range** 100 °C / 212 °F

**Flash point** No information available

**Evaporation rate** No information available

**Flammability (solid, gas)** No information available

**Flammability Limit in Air**

**Upper flammability limit:** No information available

**Lower flammability limit:** No information available

**Vapor pressure** No information available

**Vapor density** No information available

**Specific Gravity** 1.00 - 1.20

**Water solubility** No information available

**Solubility in other solvents** No information available

**Partition coefficient** No information available

**Autoignition temperature** No information available

**Decomposition temperature** No information available

**Kinematic viscosity** No information available

**Dynamic viscosity** No information available

No data available

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**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information** The product is not known to present an acute toxicity hazard based on known or supplied

information for the mixture components.

**Inhalation** No known effect based on information supplied.

**Eye contact** No known effect based on information supplied.

**Skin Contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

**Chemical Name Oral LD50 Dermal LD50 Inhalation LC50**

Colloidal Silica = 7900 mg/kg ( Rat ) > 2000 mg/kg ( Rabbit ) > 2.2 mg/L ( Rat ) 1 h

**Information on toxicological effects**

**Symptoms** No information available.

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

**Skin corrosion/irritation** Not classified. (Based on mixture components.).

**Serious eye damage/eye irritation** Not classified. (Based on mixture components). Main Component: There were weakly

irritating effects on the conjunctivae only: redness score 2 (of 4) in all animals after 1 hour,

score 2 and 1 after 24 hours and reversible by 72 hours. Chemosis and discharge was very

slight only 1 hour after application (score 1). Not Sufficent for classification.

**Sensitization** Not Classified. This product does not contain known sensitizers at levels > or equal to

0.1%.

**Germ cell mutagenicity** Not classified. (Based on mixture components).

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

**Chemical Name ACGIH IARC NTP OSHA**

Colloidal Silica - Group 3 - -

**Legend**

**IARC (International Agency for Research on Cancer)**

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Reproductive toxicity** Not classified. (Based on mixture components).

**STOT - single exposure** Not classified. (Based on mixture components).

**STOT - repeated exposure** Not classified. (Based on mixture components).

**Aspiration hazard** Not classified. (Based on mixture components).

**Numerical measures of toxicity - Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document** .

**ATEmix (oral)** 12833 mg/kg

**ATEmix (dermal)** 5133 mg/kg mg/l

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

This product has not been fully evaluated on the product level.

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

regulations.

**14. TRANSPORT INFORMATION**

**DOT** Not regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO (air)** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

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**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Complies

**DSL/NDSL** Complies

**EINECS/ELINCS** Complies

**ENCS** Complies

**IECSC** Complies

**KECL** Complies

**PICCS** Complies

**AICS** Complies

**Legend:**

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

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**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**

See section 2 for more information

**CWA (Clean Water Act)**

This material, as supplied, does not contain substances that would exceed the reportable quantity as hazardous substances under

the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain substances that would exceed the reportable quantity 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 contains substances regulated by state right-to-know regulations. For more information, please contact your sales or

technical representative.

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**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**Issue Date** 13-May-2016

**Revision Date** 24-Oct-2019

**Revision Note**

Periodic Review

**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 Safety Data Sheet**

**NFPA Reactivity** 0 **Physical and Chemical**

**Properties** -

**HMIS Health hazards** 0

**Flammability** 0 **Physical hazards** 0 **Personal protection** X

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