

Materials, Safety, and Disposal Sheet

What's included?

Instructions:

- Materials, Safety, and Disposal Sheet (this page)
- Follow-along brochure
- Detailed instructions

For UV flashlight:

- 1 - UV LED
- 2 - CR2032 button batteries

For the lava lamp:

- 1 - large glass vial of 99% Isopropyl alcohol
- 1 - pipette with Olive Oil
- 1 - paper towel with dried blue food coloring
- 1 - clean pipette
- 2 - plastic containers

For the turmeric solution:

- 1 - medium glass vial of 70% isopropyl alcohol
- 1 - pipette with Turmeric powder

For the glow in the dark paint

- 1 - pipette with Glow Paint Powder
- 1 - clean pipette
- 1 - plastic container of Glow Powder Base
- 1 - Paint Brush

Bonus glow-in-the-dark items:

- 1 - large glow-in-the-dark star
- 3 - small glow-in-the-dark stars

Safety Precautions

Glass safety

Be careful when handling the glass vial to not break the bottle. If the bottle is broken, carefully dispose of the glass shards in the trash.

Isopropyl alcohol safety

- Keep away from heat, sparks, open flames, hot surfaces
- Do not ingest or inhale vapors (if inhaled call a poison center if you feel unwell). Use in well-ventilated area
- Keep away from eyes (rinse with water if in contact with eyes)

UV safety

- The LED radiates intense UV light
- Do not look directly at the LED
- Avoid long periods of direct skin exposure
- Use with parent supervision

Glow Powder

- Do not ingest or inhale the powder.
- Do not get the powder in your eyes.

Super Base for Glow Powder

- Do not ingest or inhale the base.
- Do not get the base in your eyes.
- Do not paint heated items with the base.

Battery Information (from CR2032 MSDS)

Battery Product Identification:

Product Name: Lithium Metal Batteries

Type No: CR2032 | Volts: 3V

CHEMICAL SYSTEM: Lithium Manganese Dioxide Approximate |
Weight: 3.1g

Designed for Recharge: NO

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Battery Handling and Storage

Handling - Never swallow. Never reverse the positive and negative terminals when mounting. Never short-circuit the battery. Never heat. Never expose the battery to an open flame. Never disassemble. Never weld the terminal or wire to the body of the battery directly. Never touch the liquid leaked out of the battery. Never bring fire close to battery liquid.

Storage - Never let the battery contact with water. Never store the battery in a hot and high humid place.

Battery Hazards Identification:

This contains lithium, organic solvent, and other combustible materials. For this reason, Improper handling of the battery could lead to distortion, leakage*, overheating, explosion, fire, human injury or equipment trouble. Please strictly observe safety instructions. (*Leakage is defined as an unintended escape of liquid from a battery.)

Battery First Aid Measures:

None unless internal materials exposure. If contents are leaked out, observe following: Inhalation Fumes can cause respiratory irritation. Remove to fresh air and consult a physician.

Skin - Immediately flush skin plenty of water. If itch or irritation by chemical burn persists, consult a physician.

Eyes - Immediately flush the eye with plenty of water for at least 15 minutes. Consult a physician immediately

Ingestion - If swallowing a battery, consult a physician immediately. If contents come into mouth, immediately rinse by plenty of water and consult a physician.

Instructions for waste disposal

Trash

- The **turmeric, olive oil, paint brushes, pipettes, and glow-in-the-dark stars** can be thrown in the trash.
- The **super base+glow powder mixture** should be left to harden into a solid piece before throwing away (but you should use all of the paint for fun glow-in-the-dark projects before it hardens!)

Recycling

- The **glass vial** should be rinsed and recycled.

Sink

- **Isopropyl alcohol** may be safely disposed of in a sink while running water to dilute the alcohol

E-waste

- The **LED and battery** are considered E-waste and must be dropped off at one of the following locations - or - (for Santa Barbara residents) collected with the terminals taped in a plastic bag on top of the recycling bin.
- For more information visit <https://www.santabarbaraca.gov/services/recycling/specialwaste/ewaste.asp>
And visit <http://lessismore.org/materials/5-batteries-explained/>

E-waste Collection locations:

- **Downtown Recycling Center (MarBorg ABOP)** - Mon. - Sat. 8 AM to 4 PM; entrance at 132 Nopalitos St. (official address 725 Cacique); 963-1852
- **South Coast Recycling & Transfer Station (County Transfer Station)** - Mon. - Sat. 7 AM - 5 PM; 4430 Calle Real; 681-4345
- **Goleta Recycling Center** - Mon. - Fri 9am-4pm; Sat. 9:15am - 4pm; 20 David Love Place, Goleta; 963-1852