# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 591.00

Revision Date: March 21, 2014

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Phenolphthalein

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

DANGER

Pictograms

#### **SECTION 2 - HAZARDS IDENTIFICATION**

Hazard class: Germ cell mutagenicity (Category 2). Suspected of causing genetic defects (H341). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Carcinogenicity (Category 1B). May cause cancer (H350). Phenolphthalein is categorized as "Reasonably anticipated to be a human carcinogen" by the National Toxicology Program (first listed in 2000).

Hazard class: Reproductive toxicity (Category 2). Suspected of damaging fertility or the unborn child (H361).

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SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Phenolphthalein	77-09-8	$C_{20}H_{14}O_4$	318.31	
				2"
Synonym: 3,3-Bis(4-hydroxyphenol)-1(3H)-isobenzofuranone				

#### SECTION 4 - FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

#### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None established

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Wipe up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

# FLINN SCIENTIFIC, INC.

Safety Data Sheet

Phenolphthalein

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### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #9. Store with dyes, indicators and stains.

Keep container tightly closed. Store in a cool, dry place. Use only in a hood or in a well ventilated area.

## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or in a well ventilated area.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Pale yellow powder. Odorless.

Soluble: Alcohol, alkalies, and ether. Insoluble in water.

Melting point: 262.5 °C Specific gravity: 1.277

pH indicator: 8.2 colorless to 10 pink.

### SECTION 10 - STABILITY AND REACTIVITY

Avoid contact with strong oxidizers. Shelf life: Indefinite, if stored properly.

## SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant, laxative, nausea, vomiting, gastritis

Chronic effects: Possible carcinogen (IARC-2B, NTP-R)

Target organs: G.J. tract

ORL-MAN TLD<sub>0</sub>: 29 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

## SECTION 12 - ECOLOGICAL INFORMATION

Data not yet available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

# **SECTION 14 - TRANSPORT INFORMATION**

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

## SECTION 15 - REGULATORY INFORMATION

TSCA-listed, EINECS-listed (201-004-7).

#### SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 21, 2014

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 734.00

Revision Date: March 25, 2014

## SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

# Sodium Hydroxide

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word

DANGER

**Pictograms** 

#### **SECTION 2 — HAZARDS IDENTIFICATION**

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).

Hazard class: Corrosive to metals (Category 1). May be corrosive to metals (H290).

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SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium hydroxide	1310-73-2	NaOH	39.997	
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			de al	Est Est
			× 20	

## **SECTION 4 - FIRST AID MEASURES**

Immediately call a POISON CENTER or physician (P310).

If inhaled: Remove victim to fresh air in a position comfortable for breathing (P304+P3-0).

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). If on skin (or hair): Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

## SECTION 5 - FIRE FIGHTING MEASURES

Noncombustible solid.	NFPA CODE
Hot molten sodium hydroxide can react violently with water. Contact with aluminum, tin, and zinc liberates	H-3
hydrogen gas. When heated to decomposition, may emit toxic fumes.	F-0
In case of fire: Use a tri-class dry chemical fire extinguisher.	R-1

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. Absorb spills to prevent material damage (P390). See Sections 8 and 13 for further information.

FLINN SCIENTIFIC, INC.

Safety Data Sheet

Sodium Hydroxide

SDS #: 734.00

Revision Date: March 25, 2014

#### SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates. Absorbs CO<sub>2</sub> and water from air. Keep container tightly closed. Keep only in original container (P234).

#### SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Exposure guidelines: PEL 2 mg/m³ (OSHA); Ceiling 2 mg/m³ (ACGIH); IDLH 10 mg/m³

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

White pellets or flakes. Absorbs CO2 and water from air.

Odorless.

Soluble: Water and alcohol

Boiling point: 1388 °C Melting point: 323 °C

pH: basic

Specific gravity: 2.13

## SECTION 10 - STABILITY AND REACTIVITY

Contact with aluminum, tin, and zinc liberates, hydrogen gas. Avoid contact with strong oxidizers, strong acids, organic material, chlorinated solvents.

Shelf life: Good, if kept tightly closed. See Section 7 for further information.

#### SECTION 11 - TOXICOLOGICAL INFORMATION

Acute effects: Eye and skin burns. Mucous membrane irritant.

pneumonitis.

Chronic effects: N.A.

Target organs: Eyes, skin, respiratory system.

ORL-RBT LDL<sub>0</sub>: 500 mg/kg

IHL-RAT LC<sub>50</sub>: N.A.

SKN-RBT LD<sub>50</sub>: 50 mg/24H

N.A. = Not available, not all health aspects of this substance have been fully investigated.

#### **SECTION 12 - ECOLOGICAL INFORMATION**

Data not yet available.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding. Flinn Suggested Disposal Method #10 is one option.

## **SECTION 14 - TRANSPORT INFORMATION**

Shipping name: Sodium hydroxide, solid. Hazard class: 8, Corrosive. UN number: UN1823.

N/A = Not applicable

#### **SECTION 15 - REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (215-185-5), RCRA code D002, D003.

## **SECTION 16 - OTHER INFORMATION**

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

Revision Date: March 25, 2014

# FLINN SCIENTIFIC, INC. Safety Data Sheet (SDS)

SDS #: 789.00

Revision Date: March 25, 2014

#### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

## Sucrose

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word N

I/A

**Pictograms** 

#### **SECTION 2 — HAZARDS IDENTIFICATION**

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

Product should be treated as a chemical and is not for consumption as it has been stored with other nonfood-grade chemicals.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sucrose	57-50-1	$C_{12}H_{22}O_{11}$	342.31	
			5U0 9.	3
Synonyms: Sugar; Table sugar; Food sprinkles; Cane sugar; Sanding sugar			berread	-

### **SECTION 4 — FIRST AID MEASURES**

Call a POISON CENTER or physician if you feel unwell.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Wash with plenty of water.

If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

Nonflammable solid.

NFPA CODE

When heated to decomposition, may emit toxic fumes.

None

In case of fire: Use a tri-class dry chemical fire extinguisher.

established

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Wash spill site after material pick-up is complete. See Sections 8 and 13 for further information.

Safety Data Sheet

Sucrose

SDS #: 789.00

Revision Date: March 25, 2014

#### **SECTION 7 - HANDLING AND STORAGE**

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides. Store in a cool, dry place. Store in a Flinn Chem-Saf<sup>TM</sup> bag.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes. Wash hands thoroughly after handling.

Exposure guidelines: (as total dust) PEL 15 mg/m<sup>3</sup> (OSHA); TLV 10 mg/m<sup>3</sup> (ACGIH)

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Hard, white crystals or colored spheres or cylinders. Malt-like odor.

Soluble: Water. Slightly in alcohol.

Melting point: 185-187 °C (decomposes)

Specific gravity: 1.5877 Not for human consumption.

## SECTION 10 - STABILITY AND REACTIVITY

Avoid contact with strong oxidizers.

Shelf life: Indefinite, if stored properly and kept dry.

# SECTION 11 - TOXICOLOGICAL INFORMATION

Acute effects: N.A.

ORL-RAT LD<sub>50</sub>: 23,700 mg/kg

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

# SECTION 12 - ECOLOGICAL INFORMATION

Data not yet available.

# SECTION 13 - DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

## SECTION 14 - TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

## **SECTION 15 — REGULATORY INFORMATION**

TSCA-listed, EINECS-listed (200-334-9).

## SECTION 16 — OTHER INFORMATION

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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals. Revision Date: March 25, 2014

SDS RUPERT, CIRBON & SPIDER PO BOX 425, HEALDSBURG CA, PAGE TEL: (767) 423-4577 FAX: (707) 433-4940

SDS No: All Colors Date: 6/6/15 Name: Green Label Silk Dycs

Contact Information: Rupard Glaben & Spider 1147 Healdsburg CR Headdsburg CA 95446 800-442-045 1-800-42-905 HEMTREC (24HR Emergency Telephone), call: 1-800-42-905 For non-amergency sasistence, call: 800-442-0455 For non-amergency sasistence, call: 800-442-0455

2. Composition and Information on Ingredients Composition: CAS # % by W

CAS # % by Weight

resonants, accus means remains: when states on gurses pags, this product has shown a postative skin serimitization polerabili. This product has caused it septiation; serialization in some individual signs and Symptoms of Exposure: Skin sensitization may include one or more of the following: Signs and Symptoms of Exposure: Skin sensitization may include one or more of the following: oxight, and striktard syste to astronate symptoms. These effects can lead to shock and cough, and striktard syste to astronate symptoms. These effects can lead to shock and itselficial conditions and polerated latinal.

Itselficial Conditions Aggressised: Persons with any pre-existing skin or eye conditions may be more susceptible to the effects of this product. 3. Hazarda Identification

Bacters of Empty INHALATION/YES, SKIN ABSORPTION:NO, INGESTION: NO
SKIN CONTACT: YES, EYE CONTACT: YES

Potential Acual Health Effects: When basted on guinea piga; this product has shown a positive skin sensification potential. This product has caused reapliatory sensification in arome individual reases after recented exposure.

General Information: Immodately remove all continuitated ciciting. Eye Contact: Wash immodately with large amounts of water for 15 minutes, lifting the upper and lower falls until no evidence of product remain. Get medical attention immediately. Do not west contact lensus while handling, in the product attention. Never give fluids or induce vomiting if patient is unconsidous or has convulsions.

SDS SAFETY DATA SHEET RUPER, GREEN & SPIDER PO BOX 424, REALDSBURG CA, SMAITEL, GROUN AS SPIDER PO BOX 424, REALDSBURG CA, SMAITEL, GROUN ASSAULT TAX, GROUN 412-4904

pH (1% achr/water): Approx. 4.0 - 5.0 bolling before. NA balling Pedert. NA water NA before a pederal pedert. NA child of the pederal pederal

Odor Threshold: NA Water/Oll Dist. Coeff.: NA lonidity (in Water): NA Dispersion Properties: NA Solubility: +f- 70-100 g/L

Section 18: Stability and Reactivity Data stability; stable brability; stable bratishtifty famperature: No fremal decomposition when stored and handled correctly. Conditions of harsholity; IA shoomspatibility with various substances: NA Conneality; Conneality: None sypected Special Memarit on Reactivity: None expected Special Remarks on Reactivity: None expected Special Remarks on Reactivity: None expected

Section 11: Taxicological Information
Reades of Entry: Not available
Taxiety to Animats:
Animat Toxicity Crail – LD50 (regestion), >3000 mg/l (rata)
Fini, LC50, 700 mg/l (48 hour, Nottien)
Eye Effects – Non-Intart
Sind Entry Hon-Intary
Senditation – May cause amultiration by a May

Smallization – May cause sensitization by sion contact (Guines Pig).
Chrenit Effects on Humans: Not swallable
Special Remarks on Toxicity to Admaist since
Special Remarks on Toxicity to Admaist since
Special Remarks on Chrenit Effects on Humans: None
Special Remarks on Chrenit Effects on Humans: None

Section 12: Ecological Information Bodos and code: NA Products of Blodegnedation: NA Toxicity of the Products of Blodegnedation: NA Special Remarks on the Products of Blodegradation: NA

in a cultable plant. Uncleaned Packaging: Solled, empty containers are to be treated in the same way as the Section 13: Disposal Considerations Waste Disposal Considerations Product is not possible, it should be disposed of in Product: if utilization or recycling of the product is not possible, it should be disposed of in accordance with skitting federal. M state and local environmental regulations, e.g. by India in a matake plant.

Section 14: Transport Information

SOS SAFETY DATA SHEET RULES GIBBON & SPIDEN PO BOX 415, HEALBARRURG CA, 95444 TEL: (107) 433-4577 FAX: (197) 433-4904

shwatelons: It inhated, remove to thesh air, it not harshing, plex afficial respirator, preferably mouth to mouth. It breshing is difficult, give oxygen. Cata a physician. Salks Centract, Brancove all conteminated circlinio temediately. Wash immediately with scap and plently of water, it is semporary askin reaction occurs, it should be treated as allergic contact demands. Launder curtaminated circlinio before exusa.

Section 5: Fire and Explosion Date
harmwalking of the product: NA
Auto-graticon Temperature: U.
Flash Politics. Not Applicable
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SCRIDM 5.CACIGENT, DRIEBLES / MEASURE A Large or Small Spill: 10x not empty into drains or waiters. Do not louch or wait, through the spilled marterial: stop leak if you can do it without dats. Take up with sand or other non-combustible absorberit material, or valiable vacuum and place into labeled sealable containers. For further disposal measures see section 13.

Section 7: Handling and Storage Pracautions: in accord with good industrial practice. Handle with care and avoid personal

Storage: In accord with good industrial practice. Handle with care and avoid personal contact.

Section 5: Exposure Controls/Personal Protection General Protective Measures: Avoid contact with eyes and skin. Immediately remove all contaminated circthing.

Ventillerion: Use local ventillerion.

Other: Wear overals, apron or other prolective clothing.

Personal Protection in Case of a Large Spill: Gloves, & other prolective clothing.

Exposure Limits: NA

Odor: None Tasts: NA Molecular Weight: NA Color: Ranges from Yellow to Dark Brown Section 9: Physical and Chemical Properties Physical state and appearance: Powder Odor: None

SDS SAFETY DATA SHEET RUEEN, CIBBON & SPIDER PO BOX 425, REALDSBURG CA. FINE TEL: (787) 422-4537 FAX: (787) 432-4904

DOT Classification: 1 x regulated Identification: Non-he sardous ink Material Special Provisions to 'Transport: Fri. Class Package: 5 i

Scribes 15: Other Regulatory Information
Federal and State Rejudations:
TSON: The components of this product are listed on the TSCA inventory
SARA 313: This product is not subject SARA Title III Section 313 reporting requirent
SARA 312:
SARA 312:
American SARA 312:
American SARA 312:

SARA 312.

Delayad (chronic) health hazard – Yes
The hazard – Kes
Fire hazard – Ses
Sudden Relected of Presure – No
Ellected Relected of Presure – No
California Proposition SE. This product does not contain any components ourserily on the
California Proposition SE. This product does not contain any components ourserily on the
California Lie of Known Carcinogens and reproductive Toxins.
Other Regulations: Label in excondence with the EEC directives:

Hazard Symbols: Yn Harmful
S22: Do not hearth dust
S22: Do not hearth dust
S32: Any course sensitization by inhalation and skin contact
S37: West suitable gloves
S37: West suitable gloves
This product is not aubject to the German Ordinance that bans certain azo dyes or the 19<sup>th</sup>
Amendment of two Council Directive 76/768/EEC

Other Classification WHMIS (Canada): DSCL (EEC):

HMIS (U.S.A.):
Health Hazard: Yes (Acute)
Fire Hazard: NA
Peerformy: Reserving: Reserving: Management Reserving: Management Reserving: Reserving: NA
Health: NA
Flemmability: NA
Reserving: NA

Specific hazard: NA Protective Equipment: NA

Section 15: Other Information
The Information and the SDS is based on data from sources considered to be reliable
to Rupert, Gibbon 5 Spider inc. does not guarantee the accuracy or completeness thereof.
Rupert, Gibbon 5 Spider inc. Tiges each customer or recipient of this SDS to study it carefully to
become aware of and understruct the hexards associated with this product. The reader should
consider consulting trafference works or individuals who are experts in wentilation, toxicology or fire
and understand the data in this SDS.