

SAFETY DATA SHEET

Preparation Date: 11/26/2019

Revision date 11/26/2019

Revision Number: G1

1. IDENTIFICATION

Product identifier

Product code: SY105
Product Name: SYRUP, NF

Other means of identification

Synonyms: Liquid sugar
Simple syrup
CAS #: Mixture
RTECS # Not available
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Food Additive. Sweetener.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: <https://www.spectrumchemical.com>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Tom Tyner (USA - West Coast)
Contact Person: Ibad Tirmiz (USA - East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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

Label elements

Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Sucrose	57-50-1	85
Water	7732-18-5	13
Methylparaben	99-76-3	1
Citric Acid, Anhydrous	77-92-9	1

4. FIRST AID MEASURES

First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

- Symptoms** May cause eye/skin irritation
May cause respiratory irritation
Ingestion of large amounts may cause nausea, vomiting, abdominal pain

Indication of any immediate medical attention and special treatment needed

- Notes to Physician:** Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

- Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

- Unsuitable Extinguishing Media:** No information available.

Specific hazards arising from the chemical

- Hazardous combustion products** No information available.

- Specific hazards** No information available.

Special Protective Actions for Firefighters

Specific Methods:

No information available

Special Protective Equipment 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. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth). In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sucrose	57-50-1	15 mg/m ³ TWA 5 mg/m ³ TWA	10 mg/m ³ TWA 5 mg/m ³ TWA	10 mg/m ³ TWA	None
Water	7732-18-5	None	None	None	None
Methylparaben	99-76-3	None	None	None	None
Citric Acid, Anhydrous	77-92-9	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sucrose	57-50-1	10 mg/m ³ TWA	10 mg/m ³ TWA total dust 3 mg/m ³ TWA respirable fraction	None	10 mg/m ³ TWAEV
Water	7732-18-5	None	None	None	None
Methylparaben	99-76-3	None	None	None	None
Citric Acid, Anhydrous	77-92-9	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Sucrose	57-50-1	10 mg/m ³ TWA	10 mg/m ³ TWA 20 mg/m ³ STEL
Water	7732-18-5	None	None
Methylparaben	99-76-3	None	None
Citric Acid, Anhydrous	77-92-9	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

- Eye protection:** Goggles or Safety glasses with side-shields.
- Skin and body protection:** apron
Long sleeved clothing
Gloves
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

- | | | |
|---|--|---|
| Physical state:
Liquid | Appearance:
No information available. | Color:
Colorless to pale yellow. Light brown. |
| Odor:
Caramel. Sweet. | Taste
Sweet. | Formula
No information available |
| Molecular/Formula weight (g/mole):
No information available | Flammability (solid, gas)
no data available | Flashpoint (°C/°F):
No information available |
| Flash Point Tested according to:
Not available | Autoignition Temperature (°C/°F):
No information available | Lower Explosion Limit (%):
No information available |
| Upper Explosion Limit (%): | | |

No information available

Melting point/range(°C/°F):

No information available

Decomposition temperature(°C/°F):

No information available

Boiling point/range(°C/°F):

>105°C

Bulk density:

No information available

Density (g/cm3):

1.3-1.4

Specific gravity:

No information available

pH

6.0-8.5

Vapor pressure @ 20°C (kPa):

No information available

Evaporation rate:

No information available

Vapor density:

No information available

VOC content (g/L):

No information available

Odor threshold (ppm):

No information available

Partition coefficient

(n-octanol/water):

No information available

Viscosity:

No information available

Miscibility:

No information available

Solubility:

Soluble in Water

Soluble in Alcohol

Soluble in Ether

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability:

Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid:

Heat. Ignition sources. Incompatible materials.

Incompatible Materials:

Strong oxidizing agents

Hazardous decomposition products:

No information available.

Other Information

Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Eyes. Skin.

Acute Toxicity

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

ATEmix (oral)

75000 mg/kg

Component Information

Sucrose

CAS No	57-50-1
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LD50/oral/rat = 29700 mg/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Water	
CAS No	7732-18-5

LD50/oral/rat = > 90 mL/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Methylparaben	
CAS No	99-76-3

LD50/oral/rat = 2100 mg/kg (RTECS)
>5600 mg/kg (Hazardous Substance Data Bank)
LD50/oral/mouse = >8000 mg/kg (RTECS)
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = 6000 mg/kg Oral LD50 Rabbit
3000 mg/kg Oral LD50 Guinea pig

Citric Acid, Anhydrous	
CAS No	77-92-9

LD50/oral/rat = 3 g/kg Oral LD50 Rat; 3000 mg/kg Oral LD50 Rat
LD50/oral/mouse = 5040 mg/kg Oral LD50 Mouse
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = 903 mg/kg, intraperitoneal, mouse;
290 mg/kg, intraperitoneal, rat;
42 mg/kg, intravenous, mouse;
330 mg/kg, intravenous, rabbit;
2700 mg/kg, subcutaneous, mouse;
5500 mg/kg, subcutaneous, rat

Product Information

LD50/oral/rat =
Value - Acute Toxicity = No information available

LD50/oral/mouse =
Value - Acute Tox = No information available

LD50/dermal/rabbit
Value - Acute Toxicity = No information available

LD50/dermal/rat
VALUE - Acute Tox = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms**Skin Contact:** May cause skin irritation.**Eye Contact:** May cause eye irritation.**Inhalation** May cause respiratory tract irritation.**Ingestion** Health injuries are not known or expected under normal use. Ingestion of large amounts may cause nausea, vomiting and abdominal pain. Ingestion of very large quantities may cause gastrointestinal upset or indigestion.**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** No information available.**Sensitization:** No information available.**Mutagenic Effects:** No information available**Carcinogenic effects:** Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sucrose	57-50-1	Not listed	A4 Not Classifiable as a Human Carcinogen	Not listed	Not listed	Not listed	Not listed
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Methylparaben	99-76-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Citric Acid, Anhydrous	77-92-9	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)**IARC (International Agency for Research on Cancer)**NTP (National Toxicology Program)**OSHA (Occupational Safety and Health Administration of the US Department of Labor)***Reproductive toxicity** No data is available**Reproductive Effects:** No information available**Developmental Effects:** No information available**Teratogenic Effects:** No information available**Specific Target Organ Toxicity**

STOT - single exposure No information available.
 STOT - repeated exposure No information available.
 Target Organs: No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Citric Acid, Anhydrous - 77-92-9

Fish 1516 mg/L LC50 *Lepomis macrochirus* 96 h static 1
Crustacea 120 mg/L EC50 *Daphnia magna* 72 h

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soil No information available
Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
 Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
 Empty containers should be taken for local recycling, recovery or waste disposal. Do not re-use empty containers
 Dispose of as unused product. Dispose of in accordance with federal, state and local regulations

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sucrose	57-50-1	None	None	None	None
Water	7732-18-5	None	None	None	None
Methylparaben	99-76-3	None	None	None	None
Citric Acid, Anhydrous	77-92-9	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class No information available
Subsidiary Class No information available
Packing group: No information available
Emergency Response Guide Number No information available
Marine Pollutant No data available
DOT RQ (lbs): No information available
Special Provisions No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant No Information available
Description: No information available

ADR
UN Number Not regulated
Proper Shipping Name: No information available
Transport hazard class(es) No information available
Packing group No information available
Subsidiary Risk: No information available

IMDG
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Marine Pollutant No information available

RID
UN Number Not Regulated
Proper Shipping Name: No information available
Transport hazard class(es) No information available
Subsidiary Risk: No information available
Packing group No information available

ICAO (air)
UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class No information available
Subsidiary Risk: No information available
Packing Group: No information available

IATA
UN Number Not Regulated
Proper Shipping Name: No information available
Transport hazard class(es) No information available
Subsidiary Risk: No information available
Packing group No information available
Precautionary Statements - Response No information available
Special Provisions No information available

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
<i>Sucrose</i>	57-50-1	PresentACTIV E	Present KE-17258	Present	Not present	Present	Present	Present 200-334-9
<i>Water</i>	7732-18-5	PresentACTIV E	Present KE-35400	Present	Not present	Present	Present	Present 231-791-2
<i>Methylparaben</i>	99-76-3	PresentACTIV	Present	Present	Present	Present	Present	Present

		E	KE-20379		(3)-1585			202-785-7
<i>Citric Acid, Anhydrous</i>	77-92-9	Present	ACTIV E	Present KE-20831	Present	Present (2)-1318	Present [25349]	Present Present 201-069-1

U.S. Regulations

Sucrose

Massachusetts RTK: Present

Pennsylvania RTK: Present

Minnesota - Hazardous Substance List: Present

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1854

FDA - Direct Food Additives 21 CFR 172.869 (free)

FDA - 21 CFR - Total Food Additives 100.130, 101.4, 101.80, 101.9, 131.112, 131.170, 131.200, 131.203, 131.206, 133.124,
- List Sourced from EAFUS 133.178, 133.179, 145.134, 145.180, 145.3, 146.140, 146.141, 146.145, 146.146, 146.3,
150.160, 155.170, 155.200, 169.175, 169.179, 172.810, 172.816, 172.859, 172.861,
172.880, 172.884, 173.145, 184.1854, 73.85 (includes liquid)

Methylparaben

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1490

FDA - Direct Food Additives 21 CFR 172.515

FDA - 21 CFR - Total Food Additives 150.141, 150.161, 172.515, 181.23, 184.1490

- List Sourced from EAFUS

Citric Acid, Anhydrous

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1033

FDA - 21 CFR - Total Food Additives 131.111, 131.112, 133.123, 133.124, 133.129, 133.169, 133.173, 133.178, 133.179,
- List Sourced from EAFUS 145.134, 145.145, 146.187, 150.141, 150.161, 155.130, 161.190, 163.11, 163.110,
163.112, 169.115, 169.140, 169.150, 172.755, 172.861, 173.160, 173.165, 173.280,
178.1010, 184.1033, 73.85

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sucrose	57-50-1	Not Listed	Not Listed	Not Listed	Not Listed
Water	7732-18-5	Not Listed	Not Listed	Not Listed	Not Listed
Methylparaben	99-76-3	Not Listed	Not Listed	Not Listed	Not Listed
Citric Acid, Anhydrous	77-92-9	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sucrose	57-50-1	None	None	None	None	None
Water	7732-18-5	None	None	None	None	None
Methylparaben	99-76-3	None	None	None	None	None
Citric Acid, Anhydrous	77-92-9	None	None	None	None	None

U.S. TSCA

Component	CAS No	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sucrose	57-50-1	Not Applicable	Not Applicable
Water	7732-18-5	Not Applicable	Not Applicable
Methylparaben	99-76-3	Not Applicable	Not Applicable

Citric Acid, Anhydrous	77-92-9	Not Applicable	Not Applicable
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Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Sucrose
57-50-1 (85)

WHMIS 2015 Hazard Classification
Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)
Not a dangerous product according to HPR classification criteria

Water
7732-18-5 (13)
Citric Acid, Anhydrous
77-92-9 (1)

Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.; Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Sucrose	57-50-1	Present	Not Listed
Water	7732-18-5	Present	Not Listed
Methylparaben	99-76-3	Present	Not Listed
Citric Acid, Anhydrous	77-92-9	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Sucrose	57-50-1	Not listed
Water	7732-18-5	Not listed
Methylparaben	99-76-3	Not listed
Citric Acid, Anhydrous	77-92-9	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sucrose	57-50-1	Not listed
Water	7732-18-5	Not listed
Methylparaben	99-76-3	Not listed
Citric Acid, Anhydrous	77-92-9	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Sucrose	57-50-1	
Water	7732-18-5	
Methylparaben	99-76-3	No information
Citric Acid, Anhydrous	77-92-9	No information

EU - CLP (1272/2008)

R-phrase(s)

not determined (not applicable)

S -phrase(s)

none

Component	CAS No	Classification	Concentration Limits:	Safety Phrases
Sucrose	57-50-1		No information	
Water	7732-18-5		No information	
Methylparaben	99-76-3		No information	
Citric Acid, Anhydrous	77-92-9		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC**Indication of danger:**

None

16. OTHER INFORMATION

Preparation Date: 11/26/2019
Revision date 11/26/2019
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet