

ASU Associated Students, Inc.

Funding Request Form

"...For the Students, by the Students!"

2018-19

Necessary Documents:

- Event Flyer w/ ASI Logo
- CSI Event Reg. Form
- Estimates / Food Permits
- Event Estimates / Invoices

Contact	Organization
Officer Name:	Club/Organization: <u>Chemistry & Biochemistry Club</u>
Officer Title:	Event Title: <u>Chemistry Club</u>
Address:	Date(s) of Event: <u>10/24</u> Semester: <u>Fall 2018</u>
City/State/Zip:	Location of Event: <u>Outside La Kretz Hall</u>
Phone & Email:	Expected Total Attendance: <u>100</u>
Officer Signature:	Expected Attendance of Cal State LA Students: <u>75</u>

Event Description and Total Cost Breakdown

Briefly describe the event: These series of events will host a week-long fair of speakers and educational activities for children with the given theme of "Chemistry is Out of This World."	Is the event open to all Cal State LA students?: <u>yes</u> How will this program enhance the Cal State LA experience?: This will raise awareness for Chemistry Week by exposing students to different aspects and careers in Chemistry. Students will have a chance to network as well as participate in outreach for children.
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Hospitality	
Description	Amount

Honoraria/Contracts	
Description	Amount

Marketing	
Description	Amount

Other	
Description	Amount
UAS Banquet Order Form	\$494.53
Demo Materials	\$415.16

Event Summary For Office Use Only • Do Not Write Below

Total Cost of Event:	<u>\$909.69</u>
Amount Requested from ASI:	<u>\$3,000.00</u>
Amount from other sources:	<u>\$0.00</u>
What other resources are you employing for this event?	
No other resources.	

Important:

- All Funding Request Forms must be turned in by 12 PM Friday, the week before the Funding Sub-Committee Meetings.
- Additionally, funding request forms must be turned in no less than 10 business days (2 weeks) prior to the event.
- Deadline for Request for Payment or Purchase Order (RPP) is 15 days after the event.

All forms must have a Time Stamp and staff initial:

SK
UN
18 SEP 27 16:00:53

The Chemistry & Biochemistry Club presents
NATIONAL CHEMISTRY WEEK 2018!

CHEMISTRY is out of this world

October 21-27, 2018

SUNDAY, October 21st Noon-3pm

La Kretz Hall, lobby, bring your space-themed decorations and join us! Pizza will be provided!

MONDAY, October 22nd at 1:00pm

Main Walkway in front of the Lloyd Ferguson Courtyard
Grand Kick-Off! We will be launching rockets and giving away Fosselman's ice cream. Don't miss the countdown at 1pm!

TUESDAY, October 23rd at 12 NOON

BIOS 334 Department Seminar, Dr. Joshua Robinson, Penn State University, Synthesis of Two-Dimensional Materials. Free giveaways and lunch provided!

WEDNESDAY, October 24th 11-12:30PM

Golden Eagle Ballroom, Dr. Laurie Barge, JPL, Self-organizing chemical systems, the emergence of life on early Earth, hydrothermal vents and mineral-organic chemistry, and investigating habitability on other worlds! Includes a live demonstration with hands-on activity immediately following.

THURSDAY, October 25th 11-2PM

Lloyd Ferguson Courtyard, Science "Fair" with hands-on activities at different booths for children of all ages!

FRIDAY, October 26th 2-4pm

King Hall Lecture Hall 2, MORE Programs Seminar, Dr. Jillian Clinton, Postdoctoral Fellow, Laboratory of Dr. Harry Gray, Department of Chemistry and Chemical Engineering, Caltech. Water generation by electrochemical CO₂ reduction for future Mars missions. La Kretz Lobby, closing ceremony immediately following. Join us for cake and raffle prizes!

For information: chemcsula@gmail.com

STUDENT ORGANIZATION EVENT REGISTRATION FORM



This form must be completed 10 business days prior to the event date. Reservations for on campus events will not be confirmed unless this form has been completed. No publicity may be distributed or posted online until this form has been submitted for off campus events or until the reservation confirmation process has been completed for on campus events. **Signatures must be completed in blue or black ink.**

NAME OF ORGANIZATION: PHONE: DATE:
 EVENT CONTACT NAME: EMAIL:
 NAME OF EVENT: LOCATION:
 EVENT DATE: BEGIN TIME: END TIME: ESTIMATED ATTENDANCE:

TYPE OF ACTIVITY (THE UNIVERSITY'S GENERAL RELEASE WILL BE REQUIRED FOR CERTAIN EVENTS.)

PROCEEDS TO BENEFIT EDUCATIONAL PROGRAM SPIRITUAL PROGRAM RECREATIONAL PROGRAM
 DANCE/PARTY SOCIAL PROGRAM COMMUNITY SERVICE CONFERENCE/CONVENTION
 OTHER: SPEAKER/PANEL

WILL YOUR EVENT INCLUDE ANY OF THE FOLLOWING? (PLEASE CHECK ALL THAT APPLY)

SPORTS ACTIVITY OR COMPETITION BEACH/FOREST/PARK CLEAN-UP INTERNATIONAL TRAVEL
 BONFIRE INDOOR/OUTDOOR COOKING DOMESTIC TRAVEL
 AMPLIFIED SOUND ANIMALS

PLEASE DESCRIBE THE EVENT BELOW (INCLUDE ALL ACTIVITIES):

HOW WILL YOU MARKET THIS EVENT? (CHECK ALL THAT APPLY)

PRINTED POSTCARDS PRINTED POSTERS/FLIERS SOCIAL MEDIA: OTHER:

WHO WILL BE INVITED? (CHECK ALL THAT APPLY):

STUDENT ORG. MEMBERS CAL STATE LA COMMUNITY OTHER COLLEGES & UNIV. GENERAL PUBLIC GUEST LIST

Events intended for the general Cal State LA campus will be listed in the Student Organization Calendar of Events distributed in a bi-weekly email by the Center for Student Involvement. NO, I DO NOT WISH FOR MY EVENT TO BE POSTED.

WILL THE EVENT HAVE AN ADMISSION CHARGE, REGISTRATION FEE, OR RAISE ANY PROCEEDS TO BENEFIT THE ORGANIZATION?

(If yes, please complete statement regarding proceeds to benefit transactions on the back of this form) NO YES

WILL A MOVIE BE SHOWN? NO YES (If yes, please attach written proof of viewing rights.)

WILL THE EVENT HAVE SECURITY? NO YES If yes, please explain

WILL FOOD BE SERVED AT THE EVENT? NO YES

IF YES, WHO WILL PROVIDE THE FOOD? UNIVERSITY CATERING OTHER:

A completed food permit is required for all on-campus events with food unless the food is provided by University Catering.

WILL ALCOHOL BE PRESENT AT THE EVENT? NO YES. Please attach a completed request to serve alcoholic beverages. (This form may take up to two weeks for review and possible approval.)

WILL THE EVENT BE HELD IN A RESTAURANT/VENUE WHERE ALCOHOL IS AVAILABLE? NO YES Initials
 If so, please affirm organization members and guests will not consume alcohol. PLEASE LIST 2 TIPS and SVPT TRAINED MEMBERS ON PAGE 2.

WILL OFF-CAMPUS MEDIA BE NOTIFIED ABOUT THE EVENT (NEWSPAPER, TV, RADIO, ETC.)? NO YES, PLEASE PROVIDE WHO WILL BE INVITED ON PAGE 2.

DOES THE STUDENT ORGANIZATION WANT TO PURCHASE SPECIAL EVENT INSURANCE FOR THIS EVENT? NO YES

Please be aware that student organization events are not covered for liability or other insurance by California State University, Los Angeles or the University-Student Union. Student organization officers or the advisor may be held personally liable. If the student organization would like to purchase Special Event Insurance for a particular event, please contact CSI.

RECEIVED

STATEMENT REGARDING PROCEEDS TO BENEFIT TRANSACTIONS

As officers of this recognized student organization at Cal State LA, we affirm that all proceeds raised or assets assigned will be used solely for the benefit of the organization as a whole. Further, it is affirmed that no proceeds or assets of this organizations will accrue to the benefit of any officer, member, or any private person. We also affirm that all proceeds transactions for this event will comply with all University policies and procedures including but not limited to ICSUAM Policy 3141.01 and the Cal State LA Student Organization Funds Administration Policy. Describe the admission charge, registration, participation fee, or any proceeds that will be raised to benefit the organization. Please include how much the organization will be charging for any of these proceeds.

Not applicable. This is a free event for all students.

PRESIDENT: _____ SIGNATURE: _____ DATE: _____
 TREASURER: _____ SIGNATURE: _____ DATE: _____
 U-SU STUDENT ORGANIZATION ACCOUNT #: _____ or APPROVED EXEMPT STATUS: CSI VERIFICATION

EVENT GUIDELINES

The following guidelines are provided for the benefit of the student organization. They are intended to be followed completely. Failure to comply with any of the following guidelines may result in disciplinary action taken against the organization including suspension of recognition, events and use of facilities. More information can be found online in the Student Organization Handbook.

- CONDUCT:** The organization assumes full responsibility for the conduct of participants at the event. Any violation of University policy may subject the participants and/or the organization to disciplinary action by the Center for Student Involvement or Student Conduct.
- ALCOHOL:** In accordance with Administrative Procedure 019 - Alcoholic Beverages, any event (on or off campus) that involves the consumption of alcoholic beverages requires authorization from the University. Your organization must complete and submit a Request to Serve Alcoholic Beverages form in addition to this Event Registration Form. Please allow at least 3 weeks for this form to be reviewed by the University. Approved alcohol consumption events and events held where alcohol is available (but will not be consumed) require at least two TIPS certified members and two Sexual Violence Prevention & Resources Trained (SVPT) members to be in attendance of the entire event. Additional guidelines may be enforced.
- PUBLICITY:** All publicity material must comply with University Administrative Procedures AP P003 and AP P007. All printed marketing to be used for marketing registered events are required to be stamped by CSI prior to their approved posting. Stamps can be obtained after the event has been registered. All printed material may be posted for up to a period of fourteen (14) calendar days. For student organizations, the "POSTING VALID THRU ____" stamp must be clearly visible on the face of the posting.
- GENERAL RELEASE:** If your event will require the use of general release waivers prior to organization member and guest participation, your organization is required to comply with all instructions provided by CSI, including submitting all completed forms and requested documents.

MY SIGNATURE BELOW INDICATES THAT I WILL TAKE RESPONSIBILITY TO ENSURE THAT THE EVENT WHICH MY ORGANIZATION IS SPONSORING WILL FOLLOW ALL GUIDELINES SET FORTH BY THE UNIVERSITY. I ACKNOWLEDGE THAT THIS EVENT AND ANY ASSOCIATED EVENT SPACE RESERVATIONS MAY BE SUBJECT TO CANCELLATION BASED ON MY ORGANIZATION'S RECOGNITION STATUS.

STUDENT ORG. OFFICER'S NAME _____ SIGNATURE (PLEASE USE BLUE OR BLACK INK ONLY) _____ DATE: _____
 ADVISOR'S NAME _____ SIGNATURE _____ DATE: 9-17-18

ACKNOWLEDGMENT - FOR OFFICE USE ONLY

CENTER FOR STUDENT INVOLVEMENT (U-SU 204)

SIGNATURE: _____

DATE: 9/18/18

CSI VERIFIES THE ORG. IS RECOGNIZED BY THE UNIVERSITY _____

ASSISTANT DEAN OF STUDENTS: WELLNESS & ENGAGEMENT _____

GENERAL RELEASE REQUIRED FOR ALL PARTICIPANTS? NO YES DATE REQUIRED: _____

NOTIFICATIONS:

- PUBLIC AFFAIRS DATE: _____ ATHLETICS DATE: _____
 DEPT. OF PUBLIC SAFETY DATE: _____ FACILITIES USE COORDINATOR DATE: _____
 OTHER: _____ DATE: _____ U-SU BUSINESS OFFICE DATE: _____

NOTES OR UPDATES: (TIPS-CERTIFIED/SVPT TRAINED MEMBERS, SOCIAL MEDIA SITES/HANDLES, INVITED MEDIA, ADDITIONAL INFORMATION/REQUIREMENTS)

National Chemistry Week Budget Plan (ASI Funding Request)

Monday (10/22): [Total: \$117.95]

Fosselman's Ice Cream: \$41/3 gallon Ice Cream *2 = **\$81**

Rocket Material (Estes Tandem-X Flying Model Rocket Launch Set) : **\$36.95** (Amazon)

Wednesday (10/24): [Total: \$909.69]

UAS Banquet Order Form: **\$494.53**

Demo Materials:

-Sodium Silicate Solution: **\$47.75**

-100 g Ferric Chloride Hexahydrate: **\$101.59**

-Test tubes: **\$177.77**

-Extra Small Gloves (3 boxes): **\$88.05**

Thursday (10/25): [Total: \$727.65]

Tables: \$ 7.00 x 10= **\$70.00** (Magic Jumper Rentals)

Games:

-Stomp Rocket + refills: \$21.00+\$7.00= **\$28.00** (Amazon)

-Saturn rings basketball: **\$120** (Magic Jumper Rentals)

-Bean bag toss: **\$119.99** (Amazon)

-Can Throw/Smash: Cans + Ball

-Giant Jenga: **\$79.99** (Amazon)

-Galaxy Golf Carnival Game: **\$29.00** (Magic Jumper Rentals)

Demos:

-Vinegar:\$5.69 (2 Gallons) X 5 = **\$28.45** (Costco)

-Baking Soda: \$7.49 (13.5 lbs) X 2= **\$14.98** (Costco)

-Slime:

- Tub of clear glue (2): **\$39.98** (Amazon)

- Tub of white glue (2): **\$22.56** (Amazon)

- little styrofoam stars: **\$7.99** (Amazon)

- glitter stars: **\$7.84** (Amazon)

Photo Background:

-Props: **\$9.99** (Amazon)

-Backdrop: **\$36.39 Backdrop Stand + \$32.49 Backdrop** (Amazon)

Educational Booth:

-Solar System Set Up: ~\$100 (Paper Mache)

Food:

-Popcorn kernels: ~\$51.16 (Costco/Sam's Club)

MISC: [Total: \$1,118.15]

Posters: \$312.50 (CSULA)

Gifts:

-Mugs: \$168.00 (VistaPrint)

Prizes:

-ACS \$461.68

Table Covers (2): \$21.98 (Amazon)

Giveaways (ASI Website):

-Six Flag Tickets: \$54

-Knott's Berry Farm: \$44

-AMC 4 Tickets: \$35.99

-Starbucks Gift Cards: \$10 x2= \$20

Total: 2,944.60

Wed (10/24)



Golden Eagle Hospitality

for: Event # E34310
on: Wednesday, October 24, 2018

Client/Organization Department Of Chemistry & Biochemis try		Event Date 10/24/2018 (Wed)	Booking Contact [REDACTED]	Event # E34310
Address BIOS 336		City, St/Prov Postal Los Angeles, CA 90032	Booking Tel [REDACTED]	Guests 50 (Act)
Party Name Chem Club	Sales Rep Amy Miers	Theme	Category	

Venue

Description	Type	Start 11:00 am	End 1:00 pm	Banquet Room Ballrm 1	Setup Style Banquet 10
Food & Beverage			Equipment/Miscellaneous		
Food/Service Items	Unit	Price	Total	Food/Service Items	Unit Price Total
Lunch Setup at 12:30PM					
(50) Disposables	Each	0.50	25.00	Classroom Style for 50 - Setup at front of room	
(1) Large (Fifteen 12" Sub)	Platter(s)	85.00	85.00	LCD Projector Package	75.00
- (5) Roasted Turkey				Podium and Microphone	Each 50.00
- (5) Chicken Salad					
- (5) Grilled Chicken Pes to					
(1) Medium (Ten 12" Wraps)	Platter(s)	60.00	60.00		
- (3) Roast Beef					
- (3) Caprese					
- (2) Roasted Veggies					
- (2) Tuna Salad					
(1) Medium - Chopped Fresh Fruit (up to 55 guests)	Bowl(s)	75.00	75.00		
(1) Medium - Homemade Potato Chips With Onion Dip(36-74pp)	Bowl(s)	75.00	75.00		
(3) Fresh Brewed Unsweetened Iced Tea	Gallon(s)	22.00	66.00		
Water Service					

	Food	Beverage	Liquor	Equipment	Labor	Room	Other	Total
Subtotal	320.00	66.00	0.00	0.00	0.00	0.00	0.00	386.00
Service Charge	54.40	11.22	0.00	0.00	0.00	0.00	0.00	65.62
Taxes	35.57	7.34	0.00	0.00	0.00	0.00	0.00	42.91
Total	409.97	84.56	0.00	0.00	0.00	0.00	0.00	494.53

Authorized Signature & Date: _____
(Please sign & date all pages)

Wed (10/24)



SIGMA-ALDRICH

Order Preview(This order has not been submitted)

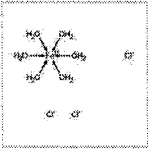

Web Copy

Order Date:2018-09-19		Email order confirmations to:				
Purchase Order:						
Payment Term:Prepaid - 1 day net						
Subtotal:47.75 USD						
Order Total:47.75 USD						
Line	Product Number	Description	Qty	Your Reference	Your Price	Net Price
000010	338443-1L	SODIUM SILICATE SOLUTION, REAGENT GRADE	1		47.75	47.75
1 In Stock from MILWAUKEE 09/19/18						

Wed (10/24)

Cart

i You are viewing the cart as a guest. Taxes and availability are shown for zip code 91803. Sign in or Create a profile for faster check out and to access more features.

Item	Price	Qty	Subtotal
 <p>Ferric Chloride Hexahydrate (Lumps/Certified ACS), Fisher Chemical Catalog number 188-100 Quantity: 100g, Packaging: Poly Bottle</p>	<p><input checked="" type="radio"/> \$101.59 / Each</p> <p><input type="radio"/> \$487.62 / Case of 6 EA</p>	<input type="text" value="1"/>	<p>\$101.59</p>
<p><input checked="" type="checkbox"/> In Stock (1) - Estimated delivery 10/03/2018</p>			
 <p>Fisherbrand™ Powder-Free Nitrile Exam Gloves Catalog number 19-130-1597A Size: X-Small</p>	<p><input checked="" type="radio"/> \$29.35 / Pack of 100</p> <p><input type="radio"/> \$249.48 / Case of 10 PK</p>	<input type="text" value="3"/>	<p>\$88.05</p>
<p><input checked="" type="checkbox"/> In Stock (3) - Estimated delivery 09/28/2018</p>			

Order Summary

Subtotal	\$189.64
▲ Estimated Shipping	\$45.27
Hazardous material charge	\$23.25
Shipping fuel surcharge	\$4.95
Shipping charge	\$17.07
▲ Estimated Tax	\$22.31
Sales tax	\$22.31



Card Number

CORNING



Life Sciences

wed (10/24)



Expiration Date

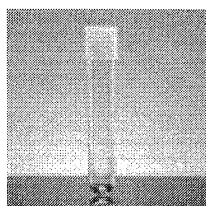
Month

Year

Month

Year

Security Code



352001

\$177.77

Falcon® 14 mL Round Bottom Polystyrene Test Tube, with Snap Cap, Sterile, Individually Wrapped, 500/Case

Item Price: \$177.77

QUANTITY: 1

UOM: Case

QTY/UOM: 500

Subtotal:

\$177.77

Shipping & Handling (est.):

\$0.00

Order Total

\$177.77 ✓

By placing the order, I am confirming that I have read and agree with the Terms & Conditions

Material Safety Data Sheet

Ferric chloride solution 10% (BSI)

ACC# 88104

Section 1 - Chemical Product and Company Identification

MSDS Name: Ferric chloride solution 10% (BSI)

Catalog Numbers: 25018

Synonyms: Iron (III) chloride; Iron chloride; Iron trichloride; Iron sesquichloride.

Company Identification:

Fisher Diagnostics
Fisher Scientific Company, LLC
8365 Valley Pike
Middletown, VA 22645-0307

For information, call: 800-524-0294

Emergency Number: 800-524-0294

For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7732-18-5	Water	89.9	231-791-2
10025-77-1	Ferric chloride hexahydrate	10	unlisted
7647-01-0	Hydrochloric acid	0.1	231-595-7

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear yellow liquid. **Caution!** May be harmful if swallowed. May cause severe respiratory and digestive tract irritation with possible burns. May cause severe eye and skin irritation with possible burns. May cause liver and kidney damage. May cause adverse reproductive effects based upon animal studies.

Target Organs: Kidneys, liver.

Potential Health Effects

Eye: May cause eye burns. Contact produces irritation, tearing, and burning pain.

Skin: May be absorbed through the skin. May cause severe irritation and possible burns.

Ingestion: May cause liver and kidney damage. May cause perforation of the digestive tract. May cause vascular collapse and damage. Causes severe pain, nausea, vomiting, diarrhea, and shock.

Inhalation: Inhalation of vapor may cause severe respiratory tract irritation.

Chronic: Prolonged or repeated exposure may cause adverse reproductive effects. Repeated exposure may increase iron levels in the liver, spleen and lymphatic system. Damage may occur in the spleen and liver.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed.

Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Antidote: The use of Deferoxamine as a chelating agent should be determined only by qualified medical personnel.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Substance is noncombustible.

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

Flash Point: Not applicable.

Autoignition Temperature: Not applicable.

Explosion Limits, Lower: Not available.

Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Spill may be carefully neutralized with lime (calcium oxide, CaO).

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Water	none listed	none listed	none listed
Ferric chloride hexahydrate	1 mg/m ³ TWA (as Fe) (listed under Iron salts (soluble)).	1 mg/m ³ TWA (as Fe) (listed under Iron salts (soluble)).	none listed
Hydrochloric acid	2 ppm Ceiling	50 ppm IDLH	5 ppm Ceiling; 7 mg/m ³ Ceiling

OSHA Vacated PELs: Water: No OSHA Vacated PELs are listed for this chemical. Ferric chloride hexahydrate: No OSHA Vacated PELs are listed for this chemical. Hydrochloric acid: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: clear yellow

Odor: Slight chlorine odor.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Decomposition Temperature: Not available.

Solubility: Complete in water.

Specific Gravity/Density: 1.07 (Water=1)

Molecular Formula: Not applicable.

Molecular Weight: Not available.

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Temperatures above recommended temperatures, incompatible materials.

Incompatibilities with Other Materials: Alkalis, allyl chloride, ethylene oxide, nylon, oxidizers, potassium, sodium. Corrosive to most metals.

Hazardous Decomposition Products: Hydrogen chloride, chlorine, carbon monoxide, carbon dioxide.

Hazardous Polymerization: Has not been reported

Section 11 - Toxicological Information

RTECS#:

CAS# 7732-18-5: ZC0110000

CAS# 10025-77-1: NO5425000

CAS# 7647-01-0: MW4025000; MW4031000

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;

CAS# 10025-77-1:

CAS# 7647-01-0:

Inhalation, mouse: LC50 = 1108 ppm/1H;

Inhalation, mouse: LC50 = 20487 mg/m³/5M;

Inhalation, mouse: LC50 = 3940 mg/m³/30M;

Inhalation, mouse: LC50 = 8300 mg/m³/30M;

Inhalation, rat: LC50 = 3124 ppm/1H;

Inhalation, rat: LC50 = 60938 mg/m³/5M;

Inhalation, rat: LC50 = 7004 mg/m³/30M;

Inhalation, rat: LC50 = 45000 mg/m³/5M;

Inhalation, rat: LC50 = 8300 mg/m³/30M;

Oral, rabbit: LD50 = 900 mg/kg;

Carcinogenicity:

CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 10025-77-1: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS# 7647-01-0: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: Fertility: Pre-implantation mortality, intravaginal- rat TDLo=29mg/kg. Paternal Effects: Spermatogenesis and Testes/sperm duct/epididymis, intratesticular-rat TDLo=12976ug/kg.

Neurotoxicity: No information available.

Mutagenicity: No information available.

Other Studies: None.

Section 12 - Ecological Information

Ecotoxicity: No data available. Daphnia (fresh water) TLm=15ppm/96H Mosquito fish TLm=74ppm/96H Minnow TLm=540ppm/1.5H

Environmental: No information reported.

Physical: No information available.

Other: None.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not reviewed.	No information available.
Hazard Class:		
UN Number:		
Packing Group:		

Section 15 - Regulatory Information

US FEDERAL

TSCA

CAS# 7732-18-5 is listed on the TSCA inventory.
CAS# 10025-77-1 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form is on the inventory (40CFR720.3(u)(2)).
CAS# 7647-01-0 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

CERCLA Hazardous Substances and corresponding RQs

CAS# 7647-01-0: 5000 lb final RQ; 2270 kg final RQ

SARA Section 302 Extremely Hazardous Substances

CAS# 7647-01-0: 500 lb TPQ

SARA Codes

CAS # 10025-77-1: acute. CAS # 7647-01-0: acute.

Section 313

This chemical is not at a high enough concentration to be reportable under Section 313. No chemicals are reportable under Section 313.

Clean Air Act:

CAS# 7647-01-0 is listed as a hazardous air pollutant (HAP). This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 7647-01-0 is listed as a Hazardous Substance under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

CAS# 7647-01-0 is considered highly hazardous by OSHA.

STATE

CAS# 7732-18-5 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

CAS# 10025-77-1 can be found on the following state right to know lists: California, (listed as Iron salts (soluble)), Pennsylvania, (listed as Iron salts (soluble)), Minnesota, (listed as Iron salts (soluble)).

CAS# 7647-01-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 7732-18-5: No information available.

CAS# 10025-77-1: No information available.

CAS# 7647-01-0: 1

Canada - DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 7647-01-0 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

Canadian Ingredient Disclosure List

CAS# 10025-77-1 (listed as Iron salts (soluble)) is listed on the Canadian Ingredient Disclosure List.

CAS# 7647-01-0 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 10/15/1997

Revision #3 Date: 4/24/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

Wednesday 10/24 - Demonstrations				
Vendor	Items	Price	Quantity	Total
Sigma - Aldrich	Sodium Silicate Solution	\$47.75	1	\$47.75
Fisher Scientific	100g Ferric Chloride Hexahydrate	\$101.59	1	\$101.59
Coring	Test tubes (500 pieces)	\$177.77	1	\$177.77
Fisher Scientific	Extra Small Gloves	\$29.35	3	\$88.05
Thursday 10/25 - Demonstrations				
Vendor	Items	Price	Quantity	Total
Costco	Vinegar	\$5.69	2	\$28.45
Costco	Baking Soda	\$7.49	2	\$14.98
Amazon	Slime:			
	Clear Glue, Tub	\$19.99	2	\$39.98
	White Glue, Tub	\$22.56	2	\$45.12
	Styrofoam Stars, Small	\$7.99	1	\$7.99
	Glitter Stars	\$7.84	1	\$7.84

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Sodium silicate solution
Product Number : 338443
Brand : Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to metals (Category 1), H290
Skin corrosion (Category 1), H314
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Specific target organ toxicity - repeated exposure (Category 1), H372

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H290 : May be corrosive to metals.
H314 : Causes severe skin burns and eye damage.
H335 : May cause respiratory irritation.
H372 : Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P234 : Keep only in original container.
P260 : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264 : Wash skin thoroughly after handling.
P270 : Do not eat, drink or smoke when using this product.
P271 : Use only outdoors or in a well-ventilated area.
P280 : Wear protective gloves/ protective clothing/ eye protection/ face

P301 + P330 + P331	protection.
P303 + P361 + P353	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	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/doctor.
P314	Get medical advice/ attention if you feel unwell.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P406	Store in corrosive resistant stainless steel container with a resistant inner liner.
P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Synonyms : Water glass
Sodium trisilicatesolution

Formula : $\text{Na}_2\text{O}_7\text{Si}_3$

Hazardous components

Component	Classification	Concentration
Disodium metasilicate		
CAS-No. 6834-92-0	Met. Corr. 1; Skin Corr. 1B; Eye Dam. 1; STOT SE 3; H290, H314, H335	50 - 70 %
EC-No. 229-912-9		
Index-No. 014-010-00-8		
Silicon dioxide		
CAS-No. 7631-86-9		10 - 20 %
EC-No. 231-545-4		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Component	CAS-No.	Value	Control parameters	Basis
Silicon dioxide	7631-86-9	TWA	20 Million particles per cubic foot	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
	Remarks	Based on impinger samples counted by light-field techniques. mppcf X 35.3 = million particles per cubic meter = particles per c.c		

		TWA	80mg/m ³ / %SiO ₂	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
		TWA	6 mg/m ³	USA. NIOSH Recommended Exposure Limits
		PEL	6 mg/m ³	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Hazardous components without workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|--------------------|------------------------------------|
| a) Appearance | Form: liquid
Colour: colourless |
| b) Odour | No data available |
| c) Odour Threshold | No data available |

d) pH	12.5
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	1.39 g/cm ³ at 25 °C (77 °F)
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sodium oxides, silicon oxides

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence (Silicon dioxide)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3266 Class: 8 Packing group: III
Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (Disodium metasilicate)
Reportable Quantity (RQ):
Poison Inhalation Hazard: No

IMDG

UN number: 3266 Class: 8 Packing group: III EMS-No: F-A, S-B
Proper shipping name: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium metasilicate)

IATA

UN number: 3266 Class: 8 Packing group: III
Proper shipping name: Corrosive liquid, basic, inorganic, n.o.s. (Disodium metasilicate)

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Silicon dioxide	7631-86-9	1993-04-24

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Disodium metasilicate	6834-92-0	
Silicon dioxide	7631-86-9	1993-04-24

New Jersey Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Disodium metasilicate	6834-92-0	
Silicon dioxide	7631-86-9	1993-04-24

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Dam.	Serious eye damage
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
STOT SE	Specific target organ toxicity - single exposure

HMIS Rating

Health hazard:	3
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.9

Revision Date: 09/28/2017

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