

CITY OF UPLAND
GOODS PURCHASE AGREEMENT

This Goods Purchase Agreement (“Agreement”) is entered into this 9th day of September, 2024, by and between the City of Upland, a general law city and municipal corporation organized under the laws of the State of California with its principal place of business at 460 N. Euclid Avenue, Upland, CA 91786 (“City”), and Hasa, Inc. a California Corporation with its principal place of business at 1415 E. 3rd Street Pomona, CA 91766 (“Supplier”). City and Supplier are sometimes individually referred to as “Party” and collectively as “Parties” in this Agreement.

Section 1. DEFINITIONS.

A. “Goods” means all machinery, equipment, supplies, items, parts, materials, labor or other services, including design, engineering and installation services, provided by Supplier as specified in Exhibit “A,” attached hereto and incorporated herein by reference.

B. “Delivery Date(s)” means that date or dates upon which the Goods is to be delivered to City, ready for approval, testing and/or use as specified in Exhibit “B”, attached hereto and incorporated herein by reference.

Section 2. MATERIALS AND WORKMANSHIP.

When Exhibit “A” specifies machinery, equipment or material by manufacturer, model or trade name, no substitution will be made without City’s written approval. Machinery, equipment or material installed in the Goods without the approval required by this Section 2 will be deemed to be defective material for purposes of Section 4. Where machinery, equipment or materials are referred to in Exhibit “A” as equal to any particular standard, City will decide the question of equality. When requested by City, Supplier will furnish City with the name of the manufacturer, the performance capabilities and other pertinent information necessary to properly determine the quality and suitability of any machines, equipment and material to be incorporated in the Goods. Material samples will be submitted at City’s request.

Section 3. INSPECTIONS AND TESTS.

City shall have the right to inspect and/or test the Goods prior to acceptance. If upon inspection or testing the Goods or any portion thereof are found to be nonconforming, unsatisfactory, defective, of inferior quality or workmanship, or fail to meet any requirements or specifications contained in Exhibit “A,” then without prejudice to any other rights or remedies, City may reject the Goods or exercise any of its rights under Section 4.C. The inspection, failure to make inspection, acceptance of goods, or payment for goods shall not impair City’s right to reject nonconforming goods, irrespective of City’s failure to notify Supplier of a rejection of nonconforming goods or revocation of acceptance thereof or to specify with particularity any defect in nonconforming goods after

rejection or acceptance thereof.

Section 4. WARRANTY.

A. Supplier warrants that the Goods will be of merchantable quality and free from defects in design, engineering, material, and workmanship for a period of two (2) years, or such longer period as provided by a manufacturer's warranty or as agreed to by Supplier and City, from the date of final written acceptance of the Goods by City as required for final payment under Section 7. Supplier further warrants that any services provided in connection with the Goods will be performed in a professional and workmanlike manner and in accordance with the highest industry standards.

B. Supplier further warrants that all machinery, equipment, or process included in the Goods will meet the performance requirements and specifications specified in Exhibit "A" and shall be fit for the purpose intended. City's inspection, testing, approval, or acceptance of any such machinery, equipment, or process will not relieve Supplier of its obligations under this Section 4.B.

C. For any breach of the warranties contained in Section 4.A and Section 4.B, Supplier will, immediately after receiving notice from City, at the option of City, and at Supplier's own expense and without cost to City:

1. Repair the defective Goods;
2. Replace the defective Goods with conforming Goods, F.O.B. City's plant, office or other location of City where the Goods was originally performed or delivered; or
3. Repay to City the purchase price of the defective Goods.

If City selects repair or replacement, any defects will be remedied without cost to City, including but not limited to, the costs of removal, repair, and replacement of the defective Goods, and reinstallation of new Goods. All such defective Goods that is so remedied will be similarly warranted as stated above. In addition, Supplier will repair or replace other items of the Goods which may have been damaged by such defects or the repairing of the same, all at its own expense and without cost to City.

D. Supplier also warrants that the Goods is free and clear of all liens and encumbrances whatsoever, that Supplier has a good and marketable title to same, and that Supplier owns or has a valid license for all of the proprietary technology and intellectual property incorporated within the Goods. Supplier agrees to indemnify, defend, and hold City harmless against any and all third party claims resulting from the breach or inaccuracy of any of the foregoing warranties.

E. In the event of a breach by Supplier of its obligations under this Section 4, City will not be limited to the remedies set forth in this Section 4, but will have all the rights

and remedies permitted by applicable law, including without limitation, all of the rights and remedies afforded to City under the California Commercial Code.

Section 5. PRICES.

Unless expressly provided otherwise, all prices and fees specified in Exhibit “C,” attached hereto and incorporated herein by reference, are firm and shall not be subject to change without the written approval of City. No extra charges of any kind will be allowed unless specifically agreed to in writing by City’s authorized representative. The total price shall include (i) all federal, state and local sales, use, excise, privilege, payroll, occupational and other taxes applicable to the Goods furnished to City hereunder; and (ii) all charges for packing, freight and transportation to destination.

Section 6. CHANGES.

City, at any time, by a written order, and without notice to any surety, may make changes in the Goods, including but not limited to, City’s requirements and specifications. If such changes affect the cost of the Goods or time required for its performance, an equitable adjustment will be made in the price or time for performance or both. Any change in the price necessitated by such change will be agreed upon between City and Supplier and such change will be authorized by a change order document signed by City and accepted by Supplier. Additionally, the City Manager may approve the purchase of additional Goods up to ten percent (10%) of the amount of the Agreement as specified in Exhibit “C” or one thousand five hundred dollars (\$1,500.00). In no event shall the total sum of the Agreement (basic agreement amount and additional goods) exceed the sum specified in Exhibit “C” plus one thousand five hundred dollars (\$1,500.00). The purchase of any additional Goods in excess of this amount shall be approved by the City Council.

Section 7. PAYMENTS.

A. Terms of payment, are net thirty (30) days, less any applicable retention, after receipt of invoice, or completion of applicable Progress Milestones. Final payment shall be made by City after Supplier has satisfied all contractual requirements. Payment of invoices shall not constitute acceptance of Goods.

B. If Progress Milestones have been specified in Exhibit “B,” then payments for the Goods will be made as the requirements of such Progress Milestones are met. Progress payments for the Goods will be made by City upon proper application by Supplier during the progress of the Goods and according to the terms of payment as specified in Exhibit “B.” Supplier’s progress billing invoice will include progress payments due for the original scope of work and changes. Each “Item for Payment” shown in Exhibit “B” and each change order will be itemized on the invoice. Invoices for cost plus work, whether part of Exhibit “B” or a change order, must have subcontractor and/or supplier invoices attached to Supplier’s invoice. Other format and support documents for invoices will be determined by City in advance of the first invoice cycle.

C. Payments otherwise due may be withheld by City on account of defective Goods not remedied, liens or other claims filed, reasonable evidence indicating probable filing of liens or other claims, failure of Supplier to make payments properly to its subcontractors or for material or labor, the failure of Supplier to perform any of its other obligations under the Agreement, or to protect City against any liability arising out of Supplier's failure to pay or discharge taxes or other obligations. If the causes for which payment is withheld are removed, the withheld payments will be made promptly. If the said causes are not removed within a reasonable period after written notice, City may remove them at Supplier's expense.

D. Payment of the final Progress Milestone payment or any retention will be made by City upon:

1. Submission of an invoice for satisfactory completion of the requirements of a Progress Milestone as defined in Exhibit "B" and in the amount associated with the Progress Milestone;
2. Written acceptance of the Goods by City;
3. Delivery of all drawings and specifications, if required by City;
4. Delivery of executed full releases of any and all liens arising out of this Agreement; and
5. Delivery of an affidavit listing all persons who might otherwise be entitled to file, claim, or maintain a lien of any kind or character, and containing an averment that all of the said persons have been paid in full.

If any person refuses to furnish an actual release or receipt in full, Supplier may furnish a bond satisfactory to City to indemnify City against any claim or lien at no cost to City.

E. Acceptance by Supplier of payment of the final Progress Milestone payment pursuant to Section 7.D will constitute a waiver, release and discharge of any and all claims and demands of any kind or character which Supplier then has, or can subsequently acquire against City, its successors and assigns, for or on account of any matter or thing arising out of, or in any manner connected with, the performance of this Agreement. However, payment for the final Progress Milestone by City will not constitute a waiver, release or discharge of any claims or demands which City then has, or can subsequently acquire, against Supplier, its successors and assigns, for or on account of any matter or thing arising out of, or in any manner connected with, the performance of this Agreement.

Section 8. SCHEDULE FOR DELIVERY.

A. The time of Supplier's performance is of the essence for this Agreement. The Goods will be delivered in accordance with the schedule set forth in Exhibit "B."

Supplier must immediately notify City in writing any time delivery is behind schedule or may not be completed on schedule. In addition to any other rights City may have under this Agreement or at law, Supplier shall pay City the sum of \$250 per item of Goods for each calendar day for which the item of Goods is unavailable beyond the scheduled delivery date(s) specified in Exhibit "B."

B. In the event that the Goods is part of a larger project or projects that require the coordination of multiple contractors or suppliers, then Supplier will fully cooperate in scheduling the delivery so that City can maximize the efficient completion of such project(s).

Section 9. TAXES.

A. Supplier agrees to timely pay all sales and use tax (including any value added or gross receipts tax imposed similar to a sales and use tax) imposed by any federal, state or local taxing authority on the ultimate purchase price of the Goods provided under this Agreement.

B. Supplier will withhold, and require its subcontractors, where applicable, to withhold all required taxes and contributions of any federal, state or local taxing authority which is measured by wages, salaries or other remuneration of its employees or the employees of its subcontractors. Supplier will deposit, or cause to be deposited, in a timely manner with the appropriate taxing authorities all amounts required to be withheld.

C. All other taxes, however denominated or measured, imposed upon the price of the Goods provided hereunder, will be the responsibility of Supplier. In addition, all taxes assessed by any taxing jurisdiction based on Supplier property used or consumed in the provision of the Goods such as and including ad valorem, use, personal property and inventory taxes will be the responsibility of Supplier.

D. Supplier will, upon written request, submit to City written evidence of any filings or payments of all taxes required to be paid by Supplier hereunder.

Section 10. INDEPENDENT CONTRACTOR.

Supplier enters into this Agreement as an independent contractor and not as an employee of City. Supplier shall have no power or authority by this Agreement to bind City in any respect. Nothing in this Agreement shall be construed to be inconsistent with this relationship or status. All employees, agents, contractors or subcontractors hired or retained by the Supplier are employees, agents, contractors or subcontractors of the Supplier and not of City. City shall not be obligated in any way to pay any wage claims or other claims made against Supplier by any such employees, agents, contractors or subcontractors or any other person resulting from performance of this Agreement.

A. In the event that Supplier or any employee, agent, or subcontractor of Supplier providing services under this Agreement claims or is determined by a court of competent jurisdiction or the California Public Employees Retirement System ("PERS")

to be eligible for enrollment in PERS as an employee of the City, Supplier shall indemnify, defend, and hold harmless City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Supplier or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

B. Notwithstanding any other agency, state or federal policy, rule, regulation, law or ordinance to the contrary, Supplier and any of its employees, agents, and subcontractors providing service under this Agreement shall not qualify for or become entitled to, and hereby agree to waive any claims to, any compensation, benefit, or any incident of employment by City, including but not limited to eligibility to enroll in PERS as an employee of City and entitlement to any contribution to be paid by City for employer contribution and/or employee contributions for PERS benefits.

Section 11. SUBCONTRACTS.

Unless otherwise specified, Supplier must obtain City's written permission before subcontracting any portion of the Goods. Except for the insurance requirements in Section 13.A, all subcontracts and orders for the purchase or rental of supplies, materials or equipment, or any other part of the Goods, will require that the subcontractor be bound by and subject to all of the terms and conditions of the Agreement. No subcontract or order will relieve Supplier from its obligations to City, including, but not limited to Supplier's insurance and indemnification obligations. No subcontract or order will bind City.

Section 12. TITLE AND RISK OF LOSS.

Unless otherwise agreed, City will have title to, and risk of loss of, all completed and partially completed portions of the Goods upon delivery, as well as materials delivered to and stored on City property which are intended to become a part of the Goods. However, Supplier will be liable for any loss or damage to the Goods and/or the materials caused by Supplier or its subcontractors, their agents or employees, and Supplier will replace or repair said Goods or materials at its own cost to the complete satisfaction of City. Notwithstanding the foregoing, in the event that the City has paid Supplier for all or a portion of the Goods which remains in the possession of Supplier, then City shall have title to, and the right to take possession of, such Goods at any time following payment therefor. Risk of loss for any Goods which remains in the possession of Supplier shall remain with Supplier until such Goods has been delivered or City has taken possession thereof. Supplier will have risk of loss or damage to Supplier's property used in the construction of the Goods but which does not become a part of the Goods.

Section 13. INDEMNIFICATION.

A. Supplier shall defend, indemnify and hold the City, its officials, officers, employees, volunteers and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury, in law or equity, to property or persons, including wrongful death, in any manner arising out of or incident to any alleged acts, omissions, negligence or willful misconduct of Supplier, its officials,

officers, employees, agents, subcontractors and subconsultants arising out of or in connection with the Goods or the performance of this Agreement, including without limitation the payment of all consequential damages and attorneys' fees and other related costs and expenses except such loss or damage which was caused by the sole negligence or willful misconduct of the City.

B. Supplier's defense obligation for any and all such aforesaid suits, actions or other legal proceedings of every kind that may be brought or instituted against the City, its officials, officers, employees, agents, or volunteers shall be at Supplier's own cost, expense, and risk. Supplier shall pay and satisfy any judgment, award, or decree that may be rendered against City or its officials, officers, employees, agents, or volunteers, in any such suit, action, or other legal proceeding. Supplier shall reimburse City and its officials, officers, employees, agents, and/or volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

C. Supplier's obligation to indemnify shall not be restricted to insurance proceeds, if any, received by the City, its officials, officers, employees, agents or volunteers.

Section 14. INSURANCE.

A. General. Supplier shall take out and maintain:

1. Commercial General Liability Insurance, of at least \$1,000,000 per occurrence/ \$2,000,000 aggregate for bodily injury, personal injury and property damage, at least as broad as Insurance Services Office Commercial General Liability most recent Occurrence Form CG 00 01;

2. Automobile Liability Insurance for bodily injury and property damage including coverage for owned, non-owned and hired vehicles, of at least \$1,000,000 per accident for bodily injury and property damage, at least as broad as most recent Insurance Services Office Form Number CA 00 01 covering automobile liability, Code 1 (any auto);

3. Workers' Compensation in compliance with applicable statutory requirements and Employer's Liability Coverage of at least \$1,000,000 per occurrence; and

4. Pollution Liability Insurance of at least \$1,000,000 per occurrence and \$2,000,000 aggregate shall be provided by the Supplier if transporting hazardous materials.

5. If Supplier is also the manufacturer of any equipment included in the Goods, Supplier shall carry Product Liability and/or Errors and Omissions Insurance which covers said equipment with limits of not less than \$1,000,000.

B. Additional Insured; Primary; Waiver of Subrogation; No Limitation on Coverage. The policies required under this Section shall give City, its officials, officers, employees, agents or volunteers additional insured status. Such policies shall contain a provision stating that Supplier's policy is primary insurance and that any insurance, self-insurance or other coverage maintained by the City or any additional insureds shall not be called upon to contribute to any loss, and shall contain or be endorsed with a waiver of subrogation in favor of the City, its officials, officers, employees, agents, and volunteers. The limits set forth herein shall apply separately to each insured against whom claims are made or suits are brought, except with respect to the limits of liability. Requirements of specific coverage or limits contained in this section are not intended as a limitation on coverage, limits, or other requirement, or a waiver of any coverage normally provided by any insurance. Any available coverage shall be provided to the parties required to be named as additional insured pursuant to this Agreement.

C. Insurance Carrier. All insurance required under this Section is to be placed with insurers with a current A.M. Best's rating no less than A:-VII, licensed to do business in California, and satisfactory to the City.

D. Evidence of Insurance. Supplier shall furnish City with original certificates of insurance and endorsements effecting coverage required by the Agreement. The certificates and endorsements for each insurance policy shall be signed by a person authorized by that insurer to bind coverage on its behalf, and shall be on forms supplied or approved by the City. All certificates and endorsements must be received and approved by the City before delivery commences. The City reserves the right to require complete, certified copies of all required insurance policies, at any time.

E. Subcontractors. All subcontractors shall meet the requirements of this Section before commencing work. In addition, Supplier shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.

F. Freight. Supplier shall ensure that third party shippers contracted by Supplier have adequate insurance coverage for the shipped Goods.

Section 15. LIENS.

A. Supplier, subcontractors and suppliers will not make, file or maintain a mechanic's or other lien or claim of any kind or character against the Goods, for or on account of any labor, materials, fixtures, tools, machinery, equipment, or any other things furnished, or any other work done or performance given under, arising out of, or in any manner connected with the Agreement (such liens or claims referred to as "Claims"); and Supplier, subcontractor and suppliers expressly waive and relinquish any and all rights which they now have, or may subsequently acquire, to file or maintain any Claim and Supplier, subcontractor and suppliers agree that this provision waiving the right of Claims will be an independent covenant.

B. Supplier will save and hold City harmless from and against any and all Claims that may be filed by a subcontractor, supplier or any other person or entity and Supplier will, at its own expense, defend any and all actions based upon such Claims and will pay all charges of attorneys and all costs and other expenses arising from such Claims.

Section 16. TERMINATION OF AGREEMENT BY CITY.

A. Should Supplier at any time refuse or fail to deliver the Goods with promptness and diligence, or to perform any of its other obligations under the Agreement, City may terminate Supplier's right to proceed with the delivery of the Goods by written notice to Supplier. In such event City may obtain the Goods by whatever method it may deem expedient, including the hiring of another contractor or other contractors and, for that purpose, may take possession of all materials, machinery, equipment, tools and appliances and exercise all rights, options and privileges of Supplier. In such case Supplier will not be entitled to receive any further payments until the Goods is delivered. If City's cost of obtaining the Goods, including compensation for additional managerial and administrative services, will exceed the unpaid balance of the Agreement, Supplier will be liable for and will pay the difference to City.

B. City may, for its own convenience, terminate Supplier's right to proceed with the delivery of any portion or all of the Goods by written notice to Supplier. Such termination will be effective in the manner specified in such notice, will be without prejudice to any claims which City may have against Supplier, and will not affect the obligations and duties of Supplier under the Agreement with respect to portions of the Goods not terminated.

C. On receipt of notice under Section 16.B, Supplier will, with respect to the portion of the Goods terminated, unless the notice states otherwise,

1. Immediately discontinue such portion of the Goods and the placing of orders for materials, facilities, and supplies in connection with the Goods,
2. Unless otherwise directed by City, make every reasonable effort to procure cancellation of all existing orders or contracts upon terms satisfactory to City; and
3. Deliver only such portions of the Goods which City deems necessary to preserve and protect those portions of the Goods already in progress and to protect material, plant and equipment at the Goods site or in transit to the Goods site.

D. Upon termination pursuant to Section 16.B, Supplier will be paid a pro rata portion of the compensation in the Agreement for any portion of the terminated Goods already delivered, including material and services for which it has made firm contracts which are not canceled, it being understood that City will be entitled to such material and services. Upon determination of the amount of said pro rata compensation, City will

promptly pay such amount to Supplier upon delivery by Supplier of the releases of liens and affidavit, pursuant to Section 7.C.

Section 17. FORCE MAJEURE

A. Supplier shall not be held responsible for failure or delay in shipping nor City for failure or delay in accepting goods described herein if such failure or delay is due to a Force Majeure Event.

B. A Force Majeure Event shall mean an event that materially affects a Party's performance and is one or more of the following: (1) Acts of God or other natural disasters occurring at the project site; (2) terrorism or other acts of a public enemy; (3) orders of governmental authorities (including, without limitation, unreasonable and unforeseeable delay in the issuance of permits or approvals by governmental authorities that are required for the work); (4) pandemics, epidemics or quarantine restrictions; and (5) strikes and other organized labor action occurring at the project site and the effects thereof on the work, only to the extent such strikes and other organized labor action are beyond the control of Supplier and its subcontractors, of every tier, and to the extent the effects thereof cannot be avoided by use of replacement workers. For purposes of this section, "orders of governmental authorities," includes ordinances, emergency proclamations and orders, rules to protect the public health, welfare and safety, and other actions of the City in its capacity as a municipal authority.

C. In the event of any such excused interference with shipments, City shall have the option either to reduce the quantity provided for in the order accordingly or to exercise its right of cancellation as set forth in this Agreement.

Section 18. MISCELLANEOUS PROVISIONS.

A. Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective parties at the following address or at such other address as the respective parties may provide in writing for this purpose:

CITY:

City of Upland
460 N. Euclid Avenue
Upland, CA 91786
Attn: City Manager
With Copy To:
City of Upland
460 N. Euclid Avenue
Upland, CA 91786
Attn: City Attorney

SUPPLIER:

Hasa, Inc
1415 E 3rd Street
Pomona, CA 91766
Attn: Ken Ward
kenward@hasa.com

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

B. Assignment or Transfer. Supplier shall not assign or transfer any interest in this Agreement whether by assignment or novation, without the prior written consent of the City, which will not be unreasonably withheld. Provided, however, that claims for money due or to become due Supplier from the City under this Agreement may be assigned to a financial institution or to a trustee in bankruptcy, without such approval. Notice of any assignment or transfer, whether voluntary or involuntary, shall be furnished promptly to the City.

C. Successors and Assigns. This Agreement shall be binding on the successors and assigns of the Parties.

D. Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both Parties.

E. Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel or otherwise.

F. Governing Law. This Agreement shall be governed by the laws of the State of California. Venue shall be in San Bernardino County.

G. Attorneys' Fees and Costs. If any action in law or equity, including an action for declaratory relief, is brought to enforce or interpret the provisions of this Agreement, each Party shall pay its own attorneys' fees.

H. Interpretation. Since the Parties or their agents have participated fully in the preparation of this Agreement, the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party.

I. No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the Parties.

J. Authority to Enter Agreement. Each Party warrants that the individuals who have signed this Agreement have the legal power, right and authority to make this Agreement and bind each respective Party.

K. Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

L. Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

M. City's Right to Employ Other Suppliers. City reserves its right to employ other contractors in connection with the Goods.

N. Entire Agreement. This Agreement constitutes the entire agreement between the Parties relative to the Goods specified herein. There are no understandings, agreements, conditions, representations, warranties or promises with respect to this Agreement, except those contained in or referred to in the writing.

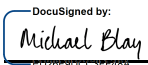
[SIGNATURES ON FOLLOWING PAGE]

**SIGNATURE PAGE TO GOODS PURCHASE AGREEMENT
BETWEEN THE CITY OF UPLAND
AND HASA, INC.**


IN WITNESS WHEREOF, the Parties hereto have executed this Agreement on the date first above written.

CITY OF UPLAND

Approved By:

By:  _____
Michael Blay
City Manager

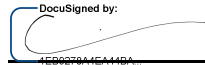
Attested by:

By:  _____
Keri Johnson
City Clerk


Approved as to form:

By:  _____
Best Best & Krieger LLP
City Attorney

HASA, INC.

By:  _____
Its: President & CEO

Printed Name: Chris Brink

By:  _____
Its: CFO

Printed Name: Ken ward

Exhibit A
Goods Specifications

[ATTACHED]



MULTI-CHLOR

Safety Data Sheet

12.5% Sodium Hypochlorite




MULTI-CHLOR
Safety Data Sheet (SDS No. 108)

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarters: Hasa Inc.
P.O. Box 802736
Santa Clarita, CA 91355
Telephone • 661.259.5848
Fax • 661.259.1538

SECTION 1: IDENTIFICATION

1.1	Product Identification:	
1.1.1	Product Name:	MULTI-CHLOR
1.1.2	CAS # (Chemical Abstracts Service):	7681-52-9
1.1.3	RTECS (Registry of Toxic Effects of Chemical Substances):	NH3486300
1.1.4	EINECS (European Inventory of Existing Commercial Substances):	231-668-3
1.1.5	EC Number:	231-668-3
1.1.6	Synonym:	Bleach, Hypo, Hypochlorite, Liquid Chlorine Solution
1.1.7	Chemical Name:	Sodium Hypochlorite
1.1.8	Chemical Formula:	NaOCl
1.2	Recommended Uses:	Dairy, food and beverage industries: Sanitizing processing equipment. Water treatment chlorination.
1.3	Company Identification:	Hasa Inc. P. O. Box 802736 Santa Clarita, CA 91355
1.4	Emergency Telephone Number:	CHEMTREC 1-800-424-9300 (24 hour Emergency Telephone)
1.5	Non-Emergency Assistance:	661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: HAZARD(S) IDENTIFICATION			
HEALTH HAZARD	Skin corrosion / irritation:	Category 1	
	Serious Eye damage / Eye Irritation	Category 1	
	Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)	
ENVIRONMENTAL HAZARD	Hazardous to the aquatic environment, acute hazard	Category 1	
PHYSICAL HAZARD	Corrosive to metals.	Category 1	
SYMBOLS			
SIGNAL WORD	DANGER		
HAZARD STATEMENT	May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life.		
PRECAUTIONARY STATEMENT	Prevention		
	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment.		
	Response		
	If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.		
	Storage and Disposal		
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container. Dispose of container/contents in accordance with local, regional, national, international regulations as specified.			

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS				
	Ingredient	Synonyms	CAS No.	Weight %
3.1	Sodium Hypochlorite	Bleach	7681-52-9	12.5%
3.2	Sodium Hydroxide	Caustic Soda	1310-73-2	0.2%

SECTION 4: FIRST AID MEASURES		
4.1	IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
4.2	IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
4.3	IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
4.4	IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER		
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.		
NOTE TO PHYSICIAN		
Probable mucosal damage may contraindicate the use of gastric lavage.		

SECTION 5: FIRE FIGHTING MEASURES		
5.1	Flash Point:	Not applicable.
5.2	Flammability:	Nonflammable and noncombustible.
5.3	Auto-Ignition Temperature:	Not applicable.
5.4	Products of Combustion:	Not pertinent.
5.5	Fire Hazards:	May decompose, generating irritating chlorine gas.
5.6	Explosion Hazards:	Not explosive.
5.7	Fire Fighting Media and Instructions:	
	5.7.1 Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide.
	5.7.2 Small Fires:	Use carbon dioxide, or water spray.
	5.7.3 Large Fires:	Use flooding quantities of water as fog.
5.8	Special Remarks on Fire Hazards:	Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause explosion with release of toxic gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Small Spill:	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
6.2	Large Spill:	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
6.3	Personal Precautions, Protective Equipment & Emergency Procedures:	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.
6.4	Environmental Precautions:	Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

SECTION 7: HANDLING AND STORAGE

7.1	Handling:	<ul style="list-style-type: none"> • Avoid contact with skin or eyes. • Do not ingest. • Avoid inhalation of vapor or mist. • Wear protective equipment if necessary. • Mix only with water in accordance with label directions. • Mixing this product with ammonia, acids, detergents, etc or with organic materials, e.g. feces, urine, etc. will release chlorine gas, which is irritating to eyes, lungs, and mucous membranes.
7.2	Hygiene Measures:	<ul style="list-style-type: none"> • Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. • While handling this product, avoid eating, drinking or smoking.
7.3	Storage:	<ul style="list-style-type: none"> • Do not freeze. • Store in a cool, shaded outdoor area. • Inside storage should be in a cool, dry, well-ventilated area. • To maintain hypochlorite strength, do not store in direct or heated indoor areas. • Keep in original vented container. • Keep container closed when not in use. • Do not store adjacent to chemicals that may react if spillage occurs. • If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1	Engineering Controls:	Local exhaust ventilation to maintain levels below STEL (Short Term Exposure Limit) of 1 ppm as chlorine.	
8.2	Personal Protection:		
8.2.1	Eye / Face Protection:	Wear safety glasses, goggles or face shield to prevent eye contact.	
8.2.2	Skin Protection:	Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Butyl rubber, Neoprene, or Nitrile Gloves should be worn when handling this material. Wear chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse.	
8.2.3	Respiratory Protection:	Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and chemical goggles. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus.	
8.2.4	Other Safety Equipment:	Eye wash facility and emergency shower should be in close proximity.	
8.3	Exposure Limits:	Sodium Hypochlorite	Chlorine*
8.3.1	AIHA (American Industrial Hygiene Association) / WEEL (Workplace Environmental Exposure Level guides) 2010	2 mg/m ³ : 15 minute. (Short-term time weighted average)	Not established
8.3.2	ACGIH (American Conference of Governmental Industrial Hygienists) TWA (Time Weighted Average)	Not established.	0.5 ppm
8.3.3	ACGIH STEL (Short Term Exposure Limit)	Not established.	1 ppm
8.3.4	OSHA PEL (Permissible Exposure Limit)	Not established.	0.5 ppm
8.3.5	ACGIH Ceiling	Not established.	Not established
8.3.6	NIOSH (National Institute for Occupational Safety & Health) IDLH (Immediate Danger to Life & Health)	Not established.	10 ppm
8.3.7	OSHA STEL (Short Term Exposure Limit)	Not established.	1 ppm as Cl ₂
8.3.8	NIOSH (15 min. ceiling)	Not established.	0.5 ppm
* Chlorine is unlikely to be present as a decomposition product, but may be present in incidents of accidental mixing with other chemicals.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Greenish yellow liquid.
9.2	Odor:	Pungent.
9.3	Odor Threshold:	0.9 mg/m ³ .
9.4	pH:	11.2 – 11.4 (1% solution)
9.5	Melting Point:	Not pertinent.
9.6	Freezing point:	-23.3 °C (-10 °F)
9.7	Boiling Point & Boiling Range:	Decomposes @ 110 °C (230 °F)
9.8	Flash Point:	No information available.
9.9	Evaporation Rate:	No information available.
9.10	Flammability (solid, gas):	Not flammable.
9.11	Upper / Lower Flammability or Explosive Limits:	No information available.
9.12	Vapor Pressure:	12.1 mm Hg @ 20 °C (68 °F)
9.13	Vapor Density:	2.61 (air=1)
9.14	Relative Density (Specific Gravity):	1.2 g/mL or 10 lb/gallon @ 20 °C (68 °F)
9.15	Solubility in Water:	Mixes infinitely with water.
9.16	Partition Coefficient: (n-octanol / water):	No information available.
9.17	Auto-ignition Temperature:	No information available.
9.18	Decomposition Temperature:	Decomposes @ 110 °C (230 °F)
9.19	Molecular Weight:	74.5 g/mole
9.20	Viscosity:	1.75 - 2.50 centipoises (varies with temperature)

SECTION 10: STABILITY AND REACTIVITY

10.1	Stability:	Stable under normal conditions of storage, handling, and use.
10.2	Instability / Decomposition Temperature:	All bleach decomposition is dependant on temperature. For any given temperature, the higher the strength, the faster it decomposes. In summary, for every 10°C increase in storage temperature, the sodium hypochlorite will decompose at an increased rate factor of approximately 3.5.
10.3	Conditions of Instability:	High heat, ultraviolet light.
10.4	Incompatibility with Various Substances:	Oxidizing agents, acids, nitrogen containing organics, metals, iron, copper, nickel, cobalt, organic materials, and ammonia.
10.5	Corrosivity:	Corrosive to metals.
10.6	Special Remarks on Reactivity:	Rate of decomposition increases with heat. May develop chlorine if mixed with acidic solutions.
10.7	Special Remarks on Corrosivity:	None.
10.8	Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION		
11.1	Routes of Entry:	Eyes, skin, ingestion, dermal absorption.
11.2	Acute Toxicity:	
	11.2.1 Oral Toxicity (LD₅₀):	3-5 g/kg (rat)
	11.2.2 Dermal Toxicity (LD₅₀):	>2 g/kg (rabbit)
	11.2.3 Primary Eye Irritation:	Corrosive
	11.2.4 Primary Skin Irritation:	Corrosive
	11.2.5 Inhalation Toxicity (LC₅₀):	No data available.
11.3	Chronic Effects (Human Risk Assessment):	Based on the toxicity profile and exposure scenarios for sodium hypochlorite, EPA concludes that the risks from chronic and subchronic exposure to low levels of these pesticides are minimal and without consequence to human health.
11.4	Tolerance Requirement:	Exempt (EPA document "Index to Pesticide Chemical Names, Part 180 Tolerance Information, and Food and Feed Commodities (by Commodity)" July 2010

SECTION 12: ECOLOGICAL INFORMATION		
12.1	Ecotoxicity:	Sodium hypochlorite is low in toxicity to avian wildlife, but it is highly toxic to freshwater fish and invertebrates.
	12.1.1 Freshwater Fish Toxicity:	Atlantic Herring (<i>clupea harengus</i>) LC ₅₀ = 0.033 - 0.097 mg/l/96 hr, flow through bioassay (pH: 8) Shiner Perch (<i>cymatogaster aggregata</i>) LC ₅₀ = 0.045 - 0.098 mg/l/96 hr, flow through bioassay (pH: 8) Three Spine Stickleback (<i>gasterosteus aculeatus</i>) LC ₅₀ = 0.141 - 0.193 mg/l/96 hr, flow through bioassay (pH: 8) Pink Salmon (<i>oncorhynchus gorbuscha</i>) LC ₅₀ = 0.023 - 0.052 mg/l/96 hr, flow through bioassay (pH: 8) Coho Salmon (<i>oncorhynchus kisutch</i>) LC ₅₀ = 0.026 - 0.038 mg/l/96 hr, flow through bioassay (pH: 8) English Sole (<i>parophrys vetulus</i>) LC ₅₀ = 0.044 - 0.144 mg/l/96 hr, flow through bioassay (pH: 8) Fat Head Minnow (<i>pimephales promelas</i>) LC ₅₀ = 0.22 - 0.62 mg/l/96 hr, flow through bioassay (pH: 7)
	12.1.2 Invertebrate Toxicity:	Water Flea (<i>ceriodaphnia</i> sp. 0) LC ₅₀ = 0.006 mg/l/24 hr Water Flea (<i>daphnia magna</i>) LC ₅₀ = 0.07 - 0.7 mg/l/24 hr Water Flea (<i>daphnia magna</i>) LC ₅₀ = 2.1 mg/l/96 hr Fresh Water Shrimp (<i>gammarus fasciatus</i>) LC ₅₀ = 0.4 mg/l/96 hr No common name (<i>nitocra spinipes</i>) LC ₅₀ = 0.40 mg/l/96 hr Grass Shrimp (<i>palaemonetes pugio</i>) LC ₅₀ = 0.52 mg/l/96 hr
12.2	Persistence:	No data available.
12.3	Environmental Fate:	In fresh water, sodium hypochlorite breaks down rapidly into non-toxic compounds when exposed to sunlight. In seawater, chlorine levels decline rapidly; however, hypobromite (which is acutely toxic to aquatic organisms) is formed. EPA believes that the risk of acute exposure to aquatic organisms is sufficiently mitigated by precautionary labeling and National Pollutant Discharge Elimination System (NPDES) permit requirements.
12.4	Bioconcentration:	This material is not expected to bioconcentrate in organisms.
12.5	Biodegradation:	This material is inorganic and not subject to biodegradation.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. This product can be neutralized with sodium bisulfite, sodium thiosulfate, sodium sulfite. Do not confuse these products with sulfates or bisulfates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination system (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not contaminate water containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Dispose of in accordance with all applicable local, County, State, and Federal regulations.

SECTION 14: TRANSPORT INFORMATION

		Inside containers (< 1.3 gallons)	Container (> 1.3 gallons)
14.1	UN Number	Limited Quantity	UN 1791
14.2	UN Proper Shipping Name	--	Hypochlorite Solutions (Sodium Hypochlorite)
14.3	Transport Hazard Class	--	8
14.4	Packing Group	--	PG III
14.5	Environmental Hazard (e.g. Marine Pollutant)	Yes	Yes
14.6	Reportable Quantity (RQ):	100 lb (45.4 kg) or 80 gallons (based on 12.5% active ingredient)	100 lb (45.4 kg) or 80 gallons (based on 12.5% active ingredient)
14.7	Materials of Trade (MOT) Exceptions. Certain hazardous materials transported in small quantities as part of a business are subject to less regulation, because of the limited hazard they pose. These materials are known as Materials of Trade. The regulations that apply to MOTs are found in 49 CFR § 173.6.		

This information is not intended to convey all specific regulatory or operational requirements / information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION		
15.1	U.S. Regulations:	
15.1.1	OSHA HAZCOM (Hazard Communication)	This material is considered hazardous under the HAZCOM Standard (29 CFR 1910.1200)
15.1.2	OSHA PSM (Process Safety Management)	Not regulated under PSM Standard (29 CFR 1910.119)
15.1.3	EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act)	EPA Reg. No. :10897-26 (Registered pesticide under 40 CFR 152.10)
15.1.4	EPA TSCA (Toxic Substance Control Act)	All components are listed or exempted. TSCA 12(b): This product is not subject to export notification.
15.1.5	EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	Reportable Quantity (RQ): 45.4 kg (100 lbs) or 80 gallons (based on 12.5% active ingredient).
15.1.6	EPA RMP (Risk Management Plan)	Not listed. (40 CFR 68.130)
15.2	State of California Regulations:	
15.2.1	Safe Drinking Water and Toxic Enforcement Act of 1986 [Proposition 65, California only]: This product is not subject to warning labeling under California Proposition 65.	
15.2.2	CDPR (California Department of Pesticide Regulation)	Registration No: 10897-26-AA
15.2.3	CalARP (California Accidental Release Prevention Program)	Not regulated.
15.3	Canada Regulations:	
15.3.1	WHMIS (Workplace Hazardous Materials Information System)	<ul style="list-style-type: none"> • Classification: E (Corrosive Materials) • Health Effects Criteria Met by this Chemical: <ul style="list-style-type: none"> ▪ E - Corrosive to skin ▪ E - TDG class 8 - corrosive substance • Ingredient Disclosure List: Included for disclosure at 1% or greater.
15.3.2	DSL (Domestic Substances List)	All components of this product are on the DSL.
15.4	International Inventory:	
15.4.1	AICS (Australian Inventory of Chemical Substances)	On inventory or in compliance with inventory.
15.4.2	KECI (Korean Existing Chemicals Inventory)	On inventory or in compliance with inventory.
15.4.3	PICCS (Philippine Inventory of Chemicals and Chemical Substances)	On inventory or in compliance with inventory.
15.4.4	IECSC (Inventory of Existing Chemical Substances in China)	On inventory or in compliance with inventory.
15.4.5	NZIoC (New Zealand Inventory of Chemicals)	On inventory or in compliance with inventory.

SECTION 16: OTHER INFORMATION			
16.1	HMIS III (Hazardous Materials Identification System):		
	16.1.1	HEALTH	2
	16.1.2	FLAMMABILITY	0
	16.1.3	PHYSICAL HAZARD	1
	16.1.4	PERSONAL PROTECTION	See Section 8.
16.2	NFPA 704 (National Fire Protection Association):		
	16.2.1	HEALTH	2
	16.2.2	FLAMMABILITY	0
	16.2.3	INSTABILITY	0
	16.2.4	SPECIAL	None
16.3	International Fire Code / International Building Code:		Irritant.
16.4	ANSI (American National Standards Institute):		
	16.4.1	Hazardous Industrial Chemicals - SDS-Preparation:	Complies with ANSI Z400.1 – 2004.
	16.4.2	Hazardous Industrial Chemicals - Precautionary Labeling:	Complies with ANSI Z129.1 – 2006.



MULTI-CHLOR
Safety Data Sheet (SDS No. 108)

Note: The information contained herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge and belief. NO WARRANTY OR GUARANTEE, express or implied, is made regarding the product performance, product stability, or as to any other condition of use, handling, transportation, and storage. Customer use, handling, transportation, and storage may involve additional safety and/or performance considerations. Our technical personnel will be happy to respond to questions regarding safe handling, storage, transportation, and use procedures. The safe handling, storage, transportation, and use procedures remain the sole responsibility of the customer. No suggestions for handling, storage, transportation, or use are intended as or to be construed as recommendations which may infringe on any existing patents or violate any Federal, State, and/or local law and/or regulation, ordinance, standard, etc. This Safety Data Sheet has been prepared by HASA, Inc. staff from test reports and other information available in the public domain.



NSF Product and Service Listings



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of Tuesday, January 23, 2024 at 12:15 a.m. Eastern Time. Please [contact NSF](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://info.nsf.org/Certified/PwsChemicals/Listings.asP-?ComP-anY=-OA68o&Standard-ø6o&>

NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals - Health Effects

Hasa Inc.

23119 Drayton Street

Saugus, CA 91350

United States

925-432-3866

[Visit this comp-any!'s website \(http://www.hasaP-ool.com\).](http://www.hasaP-ool.com)

Facility : Eloy, AZ

Sodium Hypochlorite[HY]

Trade Designation

Multi-Chlor

Multi-chlor 15.5%

Product Function

Disinfection & Oxidation

Disinfection & Oxidation

Max Use

84mg/L

68mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Facility : Pittsburg, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
12.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	84mg/L
FRESHCHLOR	Disinfection & Oxidation	84 mg/L
HASACHLOR	Disinfection & Oxidation	84mg/L
Hasa 15.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	68mg/L
Hasa Bleach 5.25%	Disinfection & Oxidation	200mg/L
Hasa Sani-clor	Disinfection & Oxidation	84mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L
Multi-chlor 15.5%	Disinfection & Oxidation	68 mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Pomona, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Classic Bleach	Bactericide	175mg/L
	Disinfection & Oxidation	
HASA BLEACH 5.25%	Bactericide	200mg/L
	Disinfection & Oxidation	
Multi-Chlor	Bactericide	84mg/L
	Disinfection & Oxidation	

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Facility : Saugus, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
12.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	84mg/L
FRESHCHLOR	Disinfection & Oxidation	84mg/L
HASACHLOR	Disinfection & Oxidation	84mg/L
Hasa 15.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	68mg/L
Hasa Bleach 5.25%	Disinfection & Oxidation	200mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L
Multi-chlor 15.5%	Disinfection & Oxidation	68mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA 8300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility: Spring Valley, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Multi-chlor	Disinfection & Oxidation	84mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA 8300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Facility : Bryan, TX

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
HASACHLOR	Disinfection & Oxidation	84mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the **AWWA B300** (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Longview, WA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
12.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	84mg/L
FRESHCHLOR	Disinfection & Oxidation	84mg/L
HASACHLOR	Disinfection & Oxidation	84mg/L
Hasa 15.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	68mg/L
Hasa Bleach 5.25%	Disinfection & Oxidation	200mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L
Multi-chlor 15.5%	Disinfection & Oxidation	68mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the **AWWA B300** (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Number of matching Manufacturers is 1

Number of matching Products is 30

Processing **time** was 0 seconds

Exhibit B
Delivery Schedule

See attached Scope of Work for delivery information.

Delivery may also be contingent on rate of usage and ordered as needed.



PUBLIC WORKS DEPARTMENT
1370 North Benson Avenue
Upland, California 91786-0460
Telephone (909) 291-2930
Facsimile (909) 291-2974

06/27/2024

City of Upland
Public Works
1370 N. Benson Avenue
Upland, CA 91786

Scope of Work

Introduction:

The City of Upland (City) has a Basin that needs to be kept clean, safe and visually appealing. The City is soliciting quotes for the work to be performed described in this scope of work. The quote should cover all labor, materials and equipment to perform the work described.

Project Location:

See attached exhibit showing the location of the Upland Basin that is along the south side of Arrow Route and the east side of Monte Vista Avenue.

Description of Work:

The purpose of this solicitation is to obtain the services of a firm able to perform weed abatement services. The City is requesting two quotes for the Upland Basin, one quote for quarterly service and the other for a yearly service.

Services to be performed:

- Remove any litter/ trash on-site before the abatement begins.
- Cutting down existing weeds throughout the site as close to existing grade as possible.
- Green waste material resulting from the services performed can be left on site to decompose.
- Healthy native shrubs/ small trees to be left on site.
- Herbicide spraying to the dirt areas shall take place after abatement of weeds has been completed.

Submittal of Quote:

All responses and questions pertaining to this solicitation can be emailed to:

Jose Aguilar
Assistant Engineer
City of Upland
Public Works Department
1370 N. Benson Avenue
Upland, CA 91786
jaguilar@uplandca.gov
(909) 291-2979

Exhibit C
Fee Schedule

[ATTACHED]



Norberto Ferreirar/ City of Upland - Operations Supervisor

July 22, 2024

Jose Aguilar / Assistant Engineer

Department Engineering Division
Operations Supervisor

At HASA we manufacture our own products for treating Fresh Water, Wastewater Treatment, Cooling Towers, and recreational water. Our goal is to provide the best quality products safely and consistently to our customers in an effective and timely manner. We have been in business since 1964 based in Saugus, CA. and produce our products 24 hours prior to delivery. We will deliver products from our Pomona location. To specifically address our Quality Service standards, we have briefly addressed each commitment as it applies to HASA, Inc.'s product and safety standards for our customer base.

1. On-time deliveries:
 - a. HASA owns and operates its fleet of delivery vehicles and employs our own drivers. This allows us the flexibility to adjust to limitations that exist in external transportation market and utilize internal resources to ensure consistent and on-time deliveries to our customers. We are the only company that delivers our products via Mini-Bulk with a (2) man team, to ensure safe deliveries for our customers.
2. Timely response:
 - a. We have four dedicated facilities in both Southern California focused on supplying our customers with their water treatment chemical needs. With other sites in No. CA., Washington, Arizona, and Texas serving (11) states in the West.
 - b. We maintain a personalized industrial account sales manager for each region dedicated to providing accurate, dependable, and expedient communication with our customers. As your representative, I am local in the market.
3. Quality as specified:
 - a. Our production facilities adhere to internal production standards that maintain consistent and uniform product quality standards. These internal production metrics conform with NSF 60 and AWWA B300 standards. Supporting documentation is included below.
 - b. HASA manufactures, ships, and delivers our products in a tight timeline to ensure product arrives to the customer in pristine condition.
4. Quality control
 - a. HASA, Inc. is the manufacturer of our water treatment chemicals we deliver. This allows us to tightly adhere to product quality standards described above.
5. Customer satisfaction
 - a. By emphasizing cooperative partnerships with our customers HASA, Inc. consistently strives to raise the level of our customer satisfaction.

We look forward to creating a long-term partnership with the City of Upland. If there are any specific questions or concerns, please contact me via email or by phone at 661-749-3698.

Phillip Flores
Industrial Sales, Southern California
phillipflores@hasa.com
HASA, Inc.

Phil Flores



Price Quote

City of Upland

Date: 7/22/2024

Contact: Jose Aguilar

Phone: 909-291-2979

e-mail: jaguilar@upland.gov

Ship To	Effective Date	Expiration Date	Product Code	Item Description	Pkg	Misc. Parts	Price	Transportation Surcharge
Plant 7 – 1655 W. 17 th Street	7/22/24	6/30/24	07001	HASA / Multi-Chlor	Mini Bulk	Per Gallon	\$2.92	0.05
Upland Treatment Plant							CA. Pesticide Tax 2.45% per gal	0.07
2545 Mountain Lane				Year one guareented pricing			City Sales Tax 7.75%	0.23
								\$3.26
<i>Please visit hasapool.com to see our Terms and Conditions that apply to this Price Quote</i>								

PAYMENT TERMS:
DEMURRAGE:
EMERGENCY FEE:
RESTOCKING FEE:

Net 30 days
 1 hrs free unload time / \$17.50 p/quarter hr. thereafter
 \$300.00 + demurrage
 25%, + Freight

Submitted by: HASA Inc.
Sales Representative: Phil Flores
Phone number: 661-749-3698
Email: phillipflores@hasapool.com

<u>Refundable Container Deposits</u>	<u>Each</u>
<u>Four 1- Gallon Jugs & Crate</u>	\$10.00
5-gallon	\$15.00
15-gallon	\$50.00
53-gallon drums	\$75.00
330-gallon totes	\$900.00
Pallets	\$20.00



Price Quote

City of Upland

Date: 7/22/2024
Contact: Jose Aguilar
Phone: 909-291-2979
e-mail: jaguilar@upland.gov

Ship To	Effective Date	Expiration Date	Product Code	Item Description	Pkg	Misc. Parts	Price	Transportation Surcharge
Plant 7 – 1655 W. 17 th Street	7/22/24	6/30/24	07001	HASA / Multi-Chlor	Mini Bulk	Per Gallon	\$2.88	0.05
Upland Treatment Plant							CA. Pesticide Tax 2.45% per gal	0.07
2545 Mountain Lane				We have guareented pricing for year one on 2 year deal.			City Sales Tax 7.75%	0.22
				Based on current market conditions we would present pricing in April of 2025 for year two ensuring no greater increase of 5% with supporting documentation. Should the market comandnd a pricing adjustment. If not we hold the current price for year two				\$3.22
<i>Please visit hasapool.com to see our Terms and Conditions that apply to this Price Quote</i>								

Submitted by: HASA Inc.

PAYMENT TERMS:
DEMURRAGE:
EMERGENCY FEE:
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<u>Refundable Container Deposits</u>	<u>Each</u>
Four 1- Gallon Jugs & Crate	\$10.00
5-gallon	\$15.00
15-gallon	\$50.00
53-gallon drums	\$75.00



HASA Inc., 23119 Drayton Street, Saugus, CA. 91350 www.hasapool.com phillipflores@hasapool.com

Food and Drug Administration (FDA) Letter of Guaranty



February 27, 2023

Food and Drug Administration (FDA) Letter of Guaranty

Hasa Inc. states that, as of the date of shipment, the product(s) hereafter listed, when used for intended use, are neither adulterated nor misbranded when shipped, within the meaning of the Federal Food, Drug and Cosmetic Act, as amended, or any substantially similar state or local law. Further, they comply with the provisions of 21 CFR §176.170 and §176.180.

We further guaranty that, as of the date of shipment, the products hereafter listed, when used for their intended use (a) are not "food additives" as defined in the Act because there is either no migration to the food being packaged or the substance is "generally recognized as safe" as defined in the Act, or (b) have either been approved for use without limitation or within approved limitations and under prescribed conditions as required by the Food Additives Amendment and the Regulations issued by the Food and Drug Administration (in such cases, the limitations and conditions are annexed hereto) and, where applicable, the products are within the extraction limitations of the appropriate test for paper and paperboard as prescribed in Part 176 of the Code of Federal Regulations.

The guaranty covers the following products according to the specific 21 CFR section, as noted:

PRODUCTS

HASA sodium hypochlorite products

In compliance with FDA regulation

We understand that the intended use of the above product(s) may be for food packaging.

This is a continuing guaranty and shall apply to each shipment made to you of such products until you receive written notification of termination. Upon termination, this guaranty shall apply to shipments made prior to your receipt of such termination notice.

A handwritten signature in black ink, appearing to read "Darcia", is written over a solid black horizontal line.

Signature



Affidavit of Compliance



October 25, 2023

Affidavit of Compliance

HASA Inc. hereby certifies that all sodium hypochlorite products manufactured by HASA Inc. are made in the U.S.A and meet the standards of the (AWWA) American Water Works Association. Including the following product brand name(s):

Hasachlor

Multi-chlor



ulti-C lor S S



MULTI-CHLOR

Safety Data Sheet

12.5% Sodium Hypochlorite


MULTI-CHLOR
Safety Data Sheet (SDS No. 108)

Emergency 24 Hour Telephone: **CHEMTREC 800.424.9300**

Corporate Headquarters: Hasa Inc.
P.O. Box 802736
Santa Clarita, CA 91355
Telephone • 661.259.5848
Fax • 661.259.1538

SECTION 1: IDENTIFICATION

1.1	Product Identification:	
1.1.1	Product Name:	MULTI-CHLOR
1.1.2	CAS # (Chemical Abstracts Service):	7681-52-9
1.1.3	RTECS (Registry of Toxic Effects of Chemical Substances):	NH3486300
1.1.4	EINECS (European Inventory of Existing Commercial Substances):	231-668-3
1.1.5	EC Number:	231-668-3
1.1.6	Synonym:	Bleach, Hypo, Hypochlorite, Liquid Chlorine Solution
1.1.7	Chemical Name:	Sodium Hypochlorite
1.1.8	Chemical Formula:	NaOCl
1.2	Recommended Uses:	Dairy, food and beverage industries: Sanitizing processing equipment. Water treatment chlorination.
1.3	Company Identification:	Hasa Inc. P. O. Box 802736 Santa Clarita, CA 91355
1.4	Emergency Telephone Number:	CHEMTREC 1-800-424-9300 (24 hour Emergency Telephone)
1.5	Non-Emergency Assistance:	661-259-5848 (8 AM – 5 PM PST / PDT)

SECTION 2: HAZARD(S) IDENTIFICATION		
HEALTH HAZARD	Skin corrosion / irritation:	Category 1
	Serious Eye damage / Eye Irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 (respiratory tract irritation)
ENVIRONMENTAL HAZARD	Hazardous to the aquatic environment, acute hazard	Category 1
PHYSICAL HAZARD	Corrosive to metals.	Category 1
SYMBOLS		
SIGNAL WORD	DANGER	
HAZARD STATEMENT	May be corrosive to metals. Causes severe skin burns and eye damage. May cause respiratory irritation. Very toxic to aquatic life.	
PRECAUTIONARY STATEMENT	Prevention	
	Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only in original container. Avoid release to the environment.	
	Response	
	If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Collect spillage.	
Storage and Disposal		
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container. Dispose of container/contents in accordance with local, regional, national, international regulations as specified.		

SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS				
	Ingredient	Synonyms	CAS No.	Weight %
3.1	Sodium Hypochlorite	Bleach	7681-52-9	12.5%
3.2	Sodium Hydroxide	Caustic Soda	1310-73-2	0.2%

SECTION 4: FIRST AID MEASURES		
4.1	IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
4.2	IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
4.3	IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
4.4	IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER		
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.		
NOTE TO PHYSICIAN		
Probable mucosal damage may contraindicate the use of gastric lavage.		

SECTION 5: FIRE FIGHTING MEASURES		
5.1	Flash Point:	Not applicable.
5.2	Flammability:	Nonflammable and noncombustible.
5.3	Auto-Ignition Temperature:	Not applicable.
5.4	Products of Combustion:	Not pertinent.
5.5	Fire Hazards:	May decompose, generating irritating chlorine gas.
5.6	Explosion Hazards:	Not explosive.
5.7	Fire Fighting Media and Instructions:	
	5.7.1 Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide.
	5.7.2 Small Fires:	Use carbon dioxide, or water spray.
	5.7.3 Large Fires:	Use flooding quantities of water as fog.
5.8	Special Remarks on Fire Hazards:	Do not use Mono Ammonium Phosphate (MAP) fire extinguishers. Such use may cause explosion with release of toxic gases.

SECTION 6: ACCIDENTAL RELEASE MEASURES		
6.1	Small Spill:	Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
6.2	Large Spill:	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
6.3	Personal Precautions, Protective Equipment & Emergency Procedures:	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.
6.4	Environmental Precautions:	Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases.

SECTION 7: HANDLING AND STORAGE		
7.1	Handling:	<ul style="list-style-type: none"> • Avoid contact with skin or eyes. • Do not ingest. • Avoid inhalation of vapor or mist. • Wear protective equipment if necessary. • Mix only with water in accordance with label directions. • Mixing this product with ammonia, acids, detergents, etc or with organic materials, e.g. feces, urine, etc. will release chlorine gas, which is irritating to eyes, lungs, and mucous membranes.
7.2	Hygiene Measures:	<ul style="list-style-type: none"> • Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. • While handling this product, avoid eating, drinking or smoking.
7.3	Storage:	<ul style="list-style-type: none"> • Do not freeze. • Store in a cool, shaded outdoor area. • Inside storage should be in a cool, dry, well-ventilated area. • To maintain hypochlorite strength, do not store in direct or heated indoor areas. • Keep in original vented container. • Keep container closed when not in use. • Do not store adjacent to chemicals that may react if spillage occurs. • If closed containers become heated, vent to release decomposition products (mainly oxygen under normal decomposition).

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION			
8.1	Engineering Controls:	Local exhaust ventilation to maintain levels below STEL (Short Term Exposure Limit) of 1 ppm as chlorine.	
8.2	Personal Protection:		
8.2.1	Eye / Face Protection:	Wear safety glasses, goggles or face shield to prevent eye contact.	
8.2.2	Skin Protection:	Wear appropriate chemical resistant protective clothing and chemical resistant gloves to prevent skin contact. Butyl rubber, Neoprene, or Nitrile Gloves should be worn when handling this material. Wear chemical resistant clothing such as a rubber apron when splashing may occur. Rinse immediately if skin is contaminated. Remove contaminated clothing promptly and wash before reuse. Clean protective equipment before reuse.	
8.2.3	Respiratory Protection:	Avoid breathing vapor or mist. When airborne exposure limits are exceeded (see below), use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and chemical goggles. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full face positive-pressure, self-contained breathing apparatus.	
8.2.4	Other Safety Equipment:	Eye wash facility and emergency shower should be in close proximity.	
8.3	Exposure Limits:	Sodium Hypochlorite	Chlorine*
8.3.1	AIHA (American Industrial Hygiene Association) / WEEL (Workplace Environmental Exposure Level guides) 2010	2 mg/m ³ : 15 minute. (Short-term time weighted average)	Not established
8.3.2	ACGIH (American Conference of Governmental Industrial Hygienists) TWA (Time Weighted Average)	Not established.	0.5 ppm
8.3.3	ACGIH STEL (Short Term Exposure Limit)	Not established.	1 ppm
8.3.4	OSHA PEL (Permissible Exposure Limit)	Not established.	0.5 ppm
8.3.5	ACGIH Ceiling	Not established.	Not established
8.3.6	NIOSH (National Institute for Occupational Safety & Health) IDLH (Immediate Danger to Life & Health)	Not established.	10 ppm
8.3.7	OSHA STEL (Short Term Exposure Limit)	Not established.	1 ppm as Cl ₂
8.3.8	NIOSH (15 min. ceiling)	Not established.	0.5 ppm
* Chlorine is unlikely to be present as a decomposition product, but may be present in incidents of accidental mixing with other chemicals.			

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Greenish yellow liquid.
9.2	Odor:	Pungent.
9.3	Odor Threshold:	0.9 mg/m ³ .
9.4	pH:	11.2 – 11.4 (1% solution)
9.5	Melting Point:	Not pertinent.
9.6	Freezing point:	-23.3 °C (-10 °F)
9.7	Boiling Point & Boiling Range:	Decomposes @ 110 °C (230 °F)
9.8	Flash Point:	No information available.
9.9	Evaporation Rate:	No information available.
9.10	Flammability (solid, gas):	Not flammable.
9.11	Upper / Lower Flammability or Explosive Limits:	No information available.
9.12	Vapor Pressure:	12.1 mm Hg @ 20 °C (68 °F)
9.13	Vapor Density:	2.61 (air=1)
9.14	Relative Density (Specific Gravity):	1.2 g/mL or 10 lb/gallon @ 20 °C (68 °F)
9.15	Solubility in Water:	Mixes infinitely with water.
9.16	Partition Coefficient: (n-octanol / water):	No information available.
9.17	Auto-ignition Temperature:	No information available.
9.18	Decomposition Temperature:	Decomposes @ 110 °C (230 °F)
9.19	Molecular Weight:	74.5 g/mole
9.20	Viscosity:	1.75 - 2.50 centipoises (varies with temperature)

SECTION 10: STABILITY AND REACTIVITY

10.1	Stability:	Stable under normal conditions of storage, handling, and use.
10.2	Instability / Decomposition Temperature:	All bleach decomposition is dependant on temperature. For any given temperature, the higher the strength, the faster it decomposes. In summary, for every 10°C increase in storage temperature, the sodium hypochlorite will decompose at an increased rate factor of approximately 3.5.
10.3	Conditions of Instability:	High heat, ultraviolet light.
10.4	Incompatibility with Various Substances:	Oxidizing agents, acids, nitrogen containing organics, metals, iron, copper, nickel, cobalt, organic materials, and ammonia.
10.5	Corrosivity:	Corrosive to metals.
10.6	Special Remarks on Reactivity:	Rate of decomposition increases with heat. May develop chlorine if mixed with acidic solutions.
10.7	Special Remarks on Corrosivity:	None.
10.8	Hazardous Polymerization:	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION		
11.1	Routes of Entry:	Eyes, skin, ingestion, dermal absorption.
11.2	Acute Toxicity:	
	11.2.1 Oral Toxicity (LD₅₀):	3-5 g/kg (rat)
	11.2.2 Dermal Toxicity (LD₅₀):	>2 g/kg (rabbit)
	11.2.3 Primary Eye Irritation:	Corrosive
	11.2.4 Primary Skin Irritation:	Corrosive
	11.2.5 Inhalation Toxicity (LC₅₀):	No data available.
11.3	Chronic Effects (Human Risk Assessment):	Based on the toxicity profile and exposure scenarios for sodium hypochlorite, EPA concludes that the risks from chronic and subchronic exposure to low levels of these pesticides are minimal and without consequence to human health.
11.4	Tolerance Requirement:	Exempt (EPA document "Index to Pesticide Chemical Names, Part 180 Tolerance Information, and Food and Feed Commodities (by Commodity)" July 2010)

SECTION 12: ECOLOGICAL INFORMATION		
12.1	Ecotoxicity:	Sodium hypochlorite is low in toxicity to avian wildlife, but it is highly toxic to freshwater fish and invertebrates.
	12.1.1 Freshwater Fish Toxicity:	Atlantic Herring (<i>clupea harengus</i>) LC ₅₀ = 0.033 - 0.097 mg/l/96 hr, flow through bioassay (pH: 8) Shiner Perch (<i>cymatogaster aggregata</i>) LC ₅₀ = 0.045 - 0.098 mg/l/96 hr, flow through bioassay (pH: 8) Three Spine Stickleback (<i>gasterosteus aculeatus</i>) LC ₅₀ = 0.141 - 0.193 mg/l/96 hr, flow through bioassay (pH: 8) Pink Salmon (<i>oncorhynchus gorbuscha</i>) LC ₅₀ = 0.023 - 0.052 mg/l/96 hr, flow through bioassay (pH: 8) Coho Salmon (<i>oncorhynchus kisutch</i>) LC ₅₀ = 0.026 - 0.038 mg/l/96 hr, flow through bioassay (pH: 8) English Sole (<i>parophrys vetulus</i>) LC ₅₀ = 0.044 - 0.144 mg/l/96 hr, flow through bioassay (pH: 8) Fat Head Minnow (<i>pimephales promelas</i>) LC ₅₀ = 0.22 - 0.62 mg/l/96 hr, flow through bioassay (pH: 7)
	12.1.2 Invertebrate Toxicity:	Water Flea (<i>ceriodaphnia</i> sp. 0) LC ₅₀ = 0.006 mg/l/24 hr Water Flea (<i>daphnia magna</i>) LC ₅₀ = 0.07 - 0.7 mg/l/24 hr Water Flea (<i>daphnia magna</i>) LC ₅₀ = 2.1 mg/l/96 hr Fresh Water Shrimp (<i>gammarus fasciatus</i>) LC ₅₀ = 0.4 mg/l/96 hr No common name (<i>nitocra spinipes</i>) LC ₅₀ = 0.40 mg/l/96 hr Grass Shrimp (<i>palaemonetes pugio</i>) LC ₅₀ = 0.52 mg/l/96 hr
12.2	Persistence:	No data available.
12.3	Environmental Fate:	In fresh water, sodium hypochlorite breaks down rapidly into non-toxic compounds when exposed to sunlight. In seawater, chlorine levels decline rapidly; however, hypobromite (which is acutely toxic to aquatic organisms) is formed. EPA believes that the risk of acute exposure to aquatic organisms is sufficiently mitigated by precautionary labeling and National Pollutant Discharge Elimination System (NPDES) permit requirements.
12.4	Bioconcentration:	This material is not expected to bioconcentrate in organisms.
12.5	Biodegradation:	This material is inorganic and not subject to biodegradation.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate food or feed by storage, disposal, or cleaning of equipment. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. This product can be neutralized with sodium bisulfite, sodium thiosulfate, sodium sulfite. Do not confuse these products with sulfates or bisulfates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination system (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not contaminate water containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Dispose of in accordance with all applicable local, County, State, and Federal regulations.

SECTION 14: TRANSPORT INFORMATION

		Inside containers (< 1.3 gallons)	Container (> 1.3 gallons)
14.1	UN Number	Limited Quantity	UN 1791
14.2	UN Proper Shipping Name	--	Hypochlorite Solutions (Sodium Hypochlorite)
14.3	Transport Hazard Class	--	8
14.4	Packing Group	--	PG III
14.5	Environmental Hazard (e.g. Marine Pollutant)	Yes	Yes
14.6	Reportable Quantity (RQ):	100 lb (45.4 kg) or 80 gallons (based on 12.5% active ingredient)	100 lb (45.4 kg) or 80 gallons (based on 12.5% active ingredient)
14.7	Materials of Trade (MOT) Exceptions. Certain hazardous materials transported in small quantities as part of a business are subject to less regulation, because of the limited hazard they pose. These materials are known as Materials of Trade. The regulations that apply to MOTs are found in 49 CFR § 173.6.		

This information is not intended to convey all specific regulatory or operational requirements / information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION		
15.1	U.S. Regulations:	
15.1.1	OSHA HAZCOM (Hazard Communication)	This material is considered hazardous under the HAZCOM Standard (29 CFR 1910.1200)
15.1.2	OSHA PSM (Process Safety Management)	Not regulated under PSM Standard (29 CFR 1910.119)
15.1.3	EPA FIFRA (Federal Insecticide, Fungicide and Rodenticide Act)	EPA Reg. No. :10897-26 (Registered pesticide under 40 CFR 152.10)
15.1.4	EPA TSCA (Toxic Substance Control Act)	All components are listed or exempted. TSCA 12(b): This product is not subject to export notification.
15.1.5	EPA CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)	Reportable Quantity (RQ): 45.4 kg (100 lbs) or 80 gallons (based on 12.5% active ingredient).
15.1.6	EPA RMP (Risk Management Plan)	Not listed. (40 CFR 68.130)
15.2	State of California Regulations:	
15.2.1	Safe Drinking Water and Toxic Enforcement Act of 1986 [Proposition 65, California only]: This product is not subject to warning labeling under California Proposition 65.	
15.2.2	CDPR (California Department of Pesticide Regulation)	Registration No: 10897-26-AA
15.2.3	CalARP (California Accidental Release Prevention Program)	Not regulated.
15.3	Canada Regulations:	
15.3.1	WHMIS (Workplace Hazardous Materials Information System)	<ul style="list-style-type: none"> • Classification: E (Corrosive Materials) • Health Effects Criteria Met by this Chemical: <ul style="list-style-type: none"> ▪ E - Corrosive to skin ▪ E - TDG class 8 - corrosive substance • Ingredient Disclosure List: Included for disclosure at 1% or greater.
15.3.2	DSL (Domestic Substances List)	All components of this product are on the DSL.
15.4	International Inventory:	
15.4.1	AICS (Australian Inventory of Chemical Substances)	On inventory or in compliance with inventory.
15.4.2	KECI (Korean Existing Chemicals Inventory)	On inventory or in compliance with inventory.
15.4.3	PICCS (Philippine Inventory of Chemicals and Chemical Substances)	On inventory or in compliance with inventory.
15.4.4	IECSC (Inventory of Existing Chemical Substances in China)	On inventory or in compliance with inventory.
15.4.5	NZIoC (New Zealand Inventory of Chemicals)	On inventory or in compliance with inventory.

SECTION 16: OTHER INFORMATION			
16.1	HMIS III (Hazardous Materials Identification System):		
	16.1.1	HEALTH	2
	16.1.2	FLAMMABILITY	0
	16.1.3	PHYSICAL HAZARD	1
	16.1.4	PERSONAL PROTECTION	See Section 8.
16.2	NFPA 704 (National Fire Protection Association):		
	16.2.1	HEALTH	2
	16.2.2	FLAMMABILITY	0
	16.2.3	INSTABILITY	0
	16.2.4	SPECIAL	None
16.3	International Fire Code / International Building Code:		Irritant.
16.4	ANSI (American National Standards Institute):		
	16.4.1	Hazardous Industrial Chemicals - SDS-Preparation:	Complies with ANSI Z400.1 – 2004.
	16.4.2	Hazardous Industrial Chemicals - Precautionary Labeling:	Complies with ANSI Z129.1 – 2006.



MULTI-CHLOR
Safety Data Sheet (SDS No. 108)

Note: The information contained herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge and belief. NO WARRANTY OR GUARANTEE, express or implied, is made regarding the product performance, product stability, or as to any other condition of use, handling, transportation, and storage. Customer use, handling, transportation, and storage may involve additional safety and/or performance considerations. Our technical personnel will be happy to respond to questions regarding safe handling, storage, transportation, and use procedures. The safe handling, storage, transportation, and use procedures remain the sole responsibility of the customer. No suggestions for handling, storage, transportation, or use are intended as or to be construed as recommendations which may infringe on any existing patents or violate any Federal, State, and/or local law and/or regulation, ordinance, standard, etc. This Safety Data Sheet has been prepared by HASA, Inc. staff from test reports and other information available in the public domain.



NSF Product and Service Listings



The Public Health and Safety Organization

NSF Product and Service Listings

These NSF Official Listings are current as of Tuesday, January 23, 2024 at 12:15 a.m. Eastern Time. Please [contact NSF](#) to confirm the status of any Listing, report errors, or make suggestions.

Alert: NSF is concerned about fraudulent downloading and manipulation of website text. Always confirm this information by clicking on the below link for the most accurate information:

<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?Comp-anY=-OA68o&Standard-06o&>

NSF/ANSI/CAN 60 Drinking Water Treatment Chemicals - Health Effects

Hasa Inc.

23119 Drayton Street

Saugus, CA 91350

United States

925-432-3866

[Visit this company's website \(http://www.hasa-pool.com\).](http://www.hasa-pool.com)

Facility : Eloy, AZ

Sodium Hypochlorite[HY]

Trade Designation	Product Function	Max Use
Multi-Chlor	Disinfection & Oxidation	84mg/L
Multi-chlor 15.5%	Disinfection & Oxidation	68mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Facility : Pittsburg, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
12.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	84mg/L
FRESHCHLOR	Disinfection & Oxidation	84 mg/L
HASACHLOR	Disinfection & Oxidation	84mg/L
Hasa 15.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	68mg/L
Hasa Bleach 5.25%	Disinfection & Oxidation	200mg/L
Hasa Sani-clor	Disinfection & Oxidation	84mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L
Multi-chlor 15.5%	Disinfection & Oxidation	68 mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

Facility : Pomona, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Classic Bleach	Bactericide	175mg/L
	Disinfection & Oxidation	
HASA BLEACH 5.25%	Bactericide	200mg/L
	Disinfection & Oxidation	
Multi-Chlor	Bactericide	84mg/L
	Disinfection & Oxidation	

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Facility : Saugus, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
12.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	84mg/L
FRESHCHLOR	Disinfection & Oxidation	84mg/L
HASACHLOR	Disinfection & Oxidation	84mg/L
Hasa 15.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	68mg/L
Hasa Bleach 5.25%	Disinfection & Oxidation	200mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L
Multi-chlor 15.5%	Disinfection & Oxidation	68mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA 8300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

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Facility: Spring Valley, CA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
Multi-chlor	Disinfection & Oxidation	84mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the AWWA 8300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

Facility : Bryan, TX

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
HASACHLOR	Disinfection & Oxidation	84mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the **AWWA** B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

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Facility : Longview, WA

Sodium Hypochlorite[HY]

<i>Trade Designation</i>	<i>Product Function</i>	<i>Max Use</i>
12.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	84mg/L
FRESHCHLOR	Disinfection & Oxidation	84mg/L
HASACHLOR	Disinfection & Oxidation	84mg/L
Hasa 15.5% Sodium Hypochlorite Solution	Disinfection & Oxidation	68mg/L
Hasa Bleach 5.25%	Disinfection & Oxidation	200mg/L
MULTI-CHLOR	Disinfection & Oxidation	84mg/L
Multi-chlor 15.5%	Disinfection & Oxidation	68mg/L

[HY] The residual levels of chlorine (hypochlorite ion and hypochlorous acid), chlorine dioxide, chlorate ion, chloramine and disinfection by-products shall be monitored in the finished drinking water to ensure compliance to all applicable regulations. Also, reference the **AWWA** B300 (Hypochlorites) standard's Recommendations for the Handling and Storage of Hypochlorite Solutions appendix for information on preservation techniques for hypochlorite bleach in transit and storage.

NOTE: Only products bearing the NSF Mark on the product, product packaging, and/or documentation shipped with the product are Certified.

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