

# Domolish NS



## Technical Dossier

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S H E P A R D   B R O S .   I N C .

# DOMOLISH NS

## Alkaline Cleaner

### PRODUCT DESCRIPTION

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**DOMOLISH NS** is a liquid, aluminum safe cleaner/degreaser, formulated for the cleaning of bake pans, churns, and food product containers.

### PROPERTIES AND BENEFITS

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Biodegradable and free rinsing.

Non-foaming.

Built-in water conditioners with heavy-duty chelants.

Contains a blend of inorganic and organic corrosion inhibitors, to prevent corrosion of tin, aluminum and other soft metals.

Works well in all water conditions.

Leaves metal surfaces free of hard water mineral deposits.

Dissolves fats and proteins quickly and easily.

### DIRECTIONS

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Recommended Use Rate: 1-3 fl-oz. **DOMOLISH NS** for 1 Gallon water

Consult your Shepard Bros., Inc. representative for specific use instructions and recommended dispensing equipment.

### SAFE HANDLING

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A Safety Data Sheet containing detailed information regarding the properties and safe handling of **DOMOLISH NS** is available on request and should be reviewed prior to using this product.

(Rev. 12/16)

The technical information and use suggestions herein are presented in good faith and are believed to be reliable. They do not constitute a part of our terms and conditions of sale unless specifically incorporated in our Order Acknowledgement. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct, or that the product described is merchantable or fit for a particular purpose, or that said information, data or product can be used without infringing patents of a third party. The purchaser must determine individually, by preliminary tests or otherwise, the suitability of this product for the intended purpose.

Shepard Bros., Inc.

503 S. Cypress St. La Habra, CA 90631

(800) 645-3594

### 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product Code:</b>	DNS		
<b>Product Name:</b>	Domolish NS		
<b>Company Name:</b>	Shepard Bros. Inc. 503 S. Cypress St. La Habra, CA 90631	<b>Phone Number:</b>	+1 (562)697-1366
<b>Web site address:</b>	www.shepardbros.com		
<b>Emergency Contact:</b>	CHEMTREC		+1 (800)424-9300

**Product Category:**

### 2. HAZARDS IDENTIFICATION

**Skin Corrosion/Irritation, Category 1A**



<b>GHS Signal Word:</b>	<b>Danger</b>
<b>GHS Hazard Phrases:</b>	H314 - Causes severe skin burns and eye damage.
<b>GHS Precautionary Phrases:</b>	P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>GHS Response Phrases:</b>	P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician. P321 - Specific treatment see ... on this label. P363 - Wash contaminated clothing before reuse.
<b>GHS Storage and Disposal Phrases:</b>	P405 - Store locked up. P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.
<b>Potential Health Effects (Acute and Chronic):</b>	Hazards not otherwise classified (HNOC) or not covered by GHS -none.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide	<25.0 %

### 4. FIRST AID MEASURES

<b>Emergency and First Aid Procedures:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>In Case of Inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In Case of Skin Contact:</b>	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
<b>Signs and Symptoms Of Exposure:</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Indication of any immediate medical attention and special treatment needed:</b>	No data available.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	NP
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	No data.
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
<b>Fire Fighting Instructions:</b>	Wear self contained breathing apparatus for fire fighting if necessary. Further information. No data available.
<b>Flammable Properties and Hazards:</b>	No data available.
<b>Hazardous Combustion Products:</b>	No data available.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a dry and well-ventilated place.
<b>Other Precautions:</b>	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide	PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
1310-73-2	Sodium hydroxide	NIOSH	CEIL: 2 mg/m3	
<b>Respiratory Equipment (Specify Type):</b>		Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).		
<b>Eye Protection:</b>		Face shield and safety glasses.		
<b>Protective Gloves:</b>		Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact. Material: Nitrile rubber Minimum layer thickness: 0.11 mm. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.		
<b>Other Protective Clothing:</b>		Complete suit protecting against chemicals.		
<b>Engineering Controls (Ventilation etc.):</b>		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.		
<b>Environmental Exposure Controls:</b>		Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas    [X] Liquid    [ ] Solid	
<b>Appearance and Odor:</b>	Appearance:	
	Color: White.	
	Odor: Odorless.	
	Odor Threshold:	
<b>pH:</b>	13.2	
<b>Melting Point:</b>	318.00 C	
<b>Boiling Point:</b>	1.00 C	
<b>Flash Pt:</b>	NP	
<b>Evaporation Rate:</b>	NA	
<b>Flammability (solid, gas):</b>	No data available.	
<b>Explosive Limits:</b>	LEL: No data.	UEL: No data.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NA	
<b>Vapor Density (vs. Air = 1):</b>	NA	
<b>Specific Gravity (Water = 1):</b>	1.264	
<b>Density:</b>	2.1300 G/CM3	
<b>Bulk density:</b>	NA	
<b>Solubility in Water:</b>	Complete	
<b>Saturated Vapor Concentration:</b>	NA	



# SAFETY DATA SHEET

## Domolish NS

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Printed: 06/17/2020

Revision: 06/17/2020

Supersedes Revision: 10/27/2013

Octanol/Water Partition Coefficient: No data.

Percent Volatile: NA

VOC / Volume: NA

HAP / Volume: NA

Autoignition Pt: No data.

Decomposition Temperature: NA

Viscosity: NA

Particle Size: NA

Heat Value: NA

Corrosion Rate: NA

Molecular Formula & Weight: PROPRIETARY 0.0

### 10. STABILITY AND REACTIVITY

Reactivity: No data available.

Stability: Unstable [ ] Stable [ X ]

Conditions To Avoid - Instability: No data available.

Incompatibility - Materials To Avoid: Strong oxidizing agents, Strong acids, Organic materials.

Hazardous Decomposition or Byproducts: No data available. In the event of fire: see section 5.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [ X ]

Conditions To Avoid - Hazardous Reactions: No data available.

### 11. TOXICOLOGICAL INFORMATION

Toxicological Information: Acute toxicity: No data available. Inhalation: Dermal. Germ cell mutagenicity: Reproductive toxicity: Aspiration hazard:

Irritation or Corrosion: Skin corrosion/irritation. Result: Tumorigenic: Tumors at site or application. Causes severe burns. Serious eye damage/eye irritation: Eyes: Rabbit.

Sensitization: Will not occur.

Chronic Toxicological Effects: Specific target organ toxicity -single exposure (Globally Harmonized System) No data available. Specific target organ toxicity -repeated exposure: no data available.

Carcinogenicity/Other Information: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

## 12. ECOLOGICAL INFORMATION

	No data available.
<b>Results of PBT and vPvB assessment:</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
<b>Persistence and Degradability:</b>	The methods for determining the biological degradability are not applicable to inorganic substances.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>Other adverse effects:</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method:</b>	Product. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging.
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## 14. TRANSPORT INFORMATION

### LAND TRANSPORT (US DOT):

<b>DOT Proper Shipping Name:</b>	Sodium hydroxide solution.		
<b>DOT Hazard Class:</b>	8	CORROSIVE	
<b>UN/NA Number:</b>	UN1824	<b>Packing Group:</b>	II



### AIR TRANSPORT (ICAO/IATA):

<b>ICAO/IATA Shipping Name:</b>	Sodium hydroxide solution.		
<b>UN Number:</b>	1824	<b>Packing Group:</b>	II
<b>Hazard Class:</b>	8 - CORROSIVE		

## 15. REGULATORY INFORMATION

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

### This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Explosive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Flammable (gases, aerosols, liquid, or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Oxidizer (liquid, solid or gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric (liquid or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Self-heating	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Reproductive toxicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Organic peroxide	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Specific target organ toxicity (single or repeated exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrosive to metal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Aspiration Hazard
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Gas under pressure (compressed gas)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Simple Asphyxiant
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No In contact with water emits flammable gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Health) Hazard Not Otherwise Classified (HNOC)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Combustible Dust	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Physical) Hazard Not Otherwise Classified (HNOC)	



# SAFETY DATA SHEET

## Domolish NS

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Printed: 06/17/2020

Revision: 06/17/2020

Supersedes Revision: 10/27/2013

**CAS #**

1310-73-2

**Hazardous Components (Chemical Name)**

Sodium hydroxide

**Other US EPA or State Lists**

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:  
TAC: Cat. IIb, Title 8

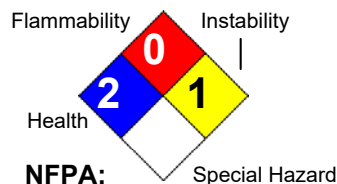
### 16. OTHER INFORMATION

**Revision Date:**

06/17/2020

**Preparer Name:**

Jose Arias (562)697-1366

**Hazard Rating System:**

**Additional Information About** No data available.

**This Product:****Company Policy or****Disclaimer:**

Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.



# DOMOLISH NS

(Formerly LS-89)  
ALKALINE CLEANER

## DANGER

Causes severe skin burns and eye damage

**Precautionary Statements:** Do not breathe mist/vapors/spray. Wear protective gloves, protective clothing, eye protection, and face protection. Wash hands thoroughly after handling.

## First Aid:

IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or a doctor.

SPECIFIC TREATMENT: See Section 4 of the SDS to reference supplemental first aid instruction if immediate measures are required.

**Storage/Disposal:** Dispose of contents and containers in accordance with local, regional, national, and international regulations.

**Supplemental Information:** This product may be fatal if swallowed in large amounts. Take proper precautions, especially when using this product in an enclosed or semi-enclosed area. At elevated temperatures, this product may react with the reducing sugars in foods and beverages to produce toxic carbon monoxide. When entering a tank, even an empty one, follow all appropriate confined entry procedures (ANSI Z117.1).

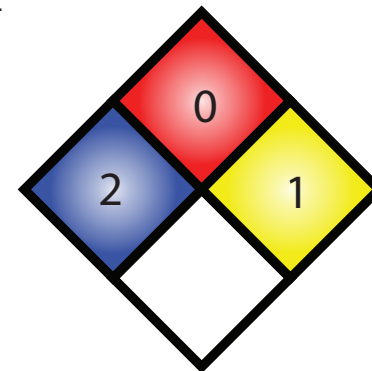
KEEP OUT OF REACH OF CHILDREN.



**SAME  
TRUSTED  
FORMULA**

CONTAINS: SODIUM HYDROXIDE. DO NOT MIX WITH STRONG ACIDS. AVOID FREEZING! (Freezes < 35F)

Contact your Shepard Bros., Inc. representative for more specific use instructions and recommended dispensing equipment.



Read safety data sheets for more detailed information.

PROPER SHIPPING NAME:

**UN1824,**  
SODIUM HYDROXIDE SOLUTION, 8, PGII

PRODUCT ID:

BATCH NO.:

NET CONTENTS:



SHEPARD BROS., INC.  
503 S. CYPRESS ST.  
La Habra, CA 90631 • (562) 697-1366



503 S. Cypress St., La Habra, CA 90631

phone: 562/697-1366

fax: 562/697-5786

January 1, 2020

Based on current U.S. Food and Drug Administration Guidelines, this Letter of Guarantee certifies that the Shepard Bros., Inc. product, **Domolish NS**, is safe and suitable as a general cleaning agent on all surfaces or for use with steam or mechanical cleaning devices in all departments of establishments processing food for human or animal consumption.

When used according to the product label directions and in accordance with Good Manufacturing Practice this product will have no deleterious effects on the foods being processed.

This product must be used, handled and stored in a manner that will not adulterate food products. Before using this compound, food products and packaging materials must be removed from the room or carefully protected. After using this compound, surfaces must be thoroughly rinsed with potable water. This product must always be used according to applicable label directions.

Sincerely,

Jose Arias  
Director of Compliance & Regulatory Affairs  
Shepard Bros., Inc.



SHEPARD BROS.

Shepard Bros., Inc.

503 S. Cypress St.

La Habra, CA 90631

(562) 697-1366

**Domolish NS**

Alkalinity Test Kit

**SBRTK5050-Z**

1. Rinse test tube (0701) 3 times with sample. Fill to 10mL line.
  2. Add 3 drops of Phenolphthalein indicator (PH1605), mix (solution will turn pink).
  3. Add Sulfuric Acid 0.5N (SA7590) drop-wise while swirling until sample turns clear.  
Count the number of drops. Hold bottle vertically.
  4. **Calculations:**
    - number of drops x 80 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)
    - number of drops x 0.125 = to obtain % product in solution (by volume)
    - number of drops x 0.167 = to obtain fl-oz product/gallon
    - number of drops x 1250 to obtain ppm product in solution (by volume)
- Example:** 1.0 fl-oz/gal = 6 drops  
1% product in solution by vol = 8 drops

**NOTE:** For accuracy and consistency hold the dropper bottle in a vertical position during the titration.

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