

Dyna Foam 200 N



Technical Dossier

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S H E P A R D B R O S . I N C .

DYNA FOAM 200 N

Penetrating Alkaline Cleaner

PRODUCT DESCRIPTION

DYNA FOAM 200 N is a progressive alkaline cleaning compound specifically designed for the removal of baked-on food soils and deposits.

DYNA FOAM 200 N quickly cleans even the dirtiest surfaces with a minimum of effort by simply applying either a foam or paste mixture. It exhibits high foam with excellent penetrating, wetting, and detergency characteristics.

BENEFITS

- High foam with excellent cleaning, wetting, and penetration properties.
- Easily dilutable in water.
- Rinses quickly and easily.
- Simple two-step application/rinse quickly cleans even the toughest baked-on foods.
- Preferred product for many baking industry applications.
- Particularly effective against sugars and proteinaceous soils.

DIRECTIONS

DYNA FOAM 200 N is a concentrated alkaline cleaning compound designed for dilution in water prior to use.

Typical dilution ratios range from 16 oz per gallon of water for heavy, baked on deposits down to as little as 4 oz per gallon of water for light duty, general purpose cleaning. During use, product performance will generally be enhanced at elevated temperatures (ex: 145° F) or with mechanical agitation. **DYNA FOAM 200 N** will generate heat during addition to water. Always add **DYNA FOAM 200 N** to the water. It is recommended that **DYNA FOAM 200 N** be slowly added to cold water under mild agitation to facilitate heat dissipation.

PROPERTIES AND SAFE HANDLING

A Safety Data Sheet containing detailed information about **DYNA FOAM 200 N** is available on request and should be reviewed prior to using this product.

(Rev. 7/18)

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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: DF200N
Product Name: Dyna Foam 200 N
Company Name: Shepard Bros. Inc.
503 S. Cypress St.
La Habra, CA 90631
Phone Number: +1 (562)697-1366
Web site address: www.shepardbros.com
Emergency Contact: CHEMTREC +1 (800)424-9300

Product Category:

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1A



GHS Signal Word: **Danger**

GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.

GHS Precautionary Phrases: 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.

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before reuse.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.

GHS Storage and Disposal Phrases: P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.

Potential Health Effects (Acute and Chronic): Direct contact causes burns to skin, eyes, and respiratory tract.
Chronic: No information found.

Inhalation: Harmful if inhaled. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Can cause burns of mucous membranes, throat, esophagus, and stomach.

Skin Contact: Corrosive, causes skin burning. Dermatitis.

Eye Contact: Corrosive. Will cause eye burns and permanent tissue damage.

Ingestion: Can burn mouth, throat and stomach. May cause severe and permanent damage to the digestive tract.



3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide	20.0 -30.0 %

4. FIRST AID MEASURES

Emergency and First Aid

Procedures:

In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. Get medical attention immediately.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical advice/attention.
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and continue rinsing for an additional 15 minutes. Get immediate medical advice/attention.
In Case of Ingestion:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt:	> 212.00 F
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media:	Foam, CO2, water fog, sand/earth.
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved (or equivalent), and full protective gear. Containers can build up pressure if exposed to heat (fire). Use water spray to keep fire-exposed containers cool.
Flammable Properties and Hazards:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: sulfur, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
Hazardous Combustion Products:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: sulfur, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Do not let product enter drains, sewers, watersheds or water systems.
Steps To Be Taken In Case Material Is Released Or Spilled:	Spills/Leaks: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal.



SAFETY DATA SHEET

Dyna Foam 200 N

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Use as directed. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Keep away from sources of ignition. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.
Other Precautions:	Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

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	

Respiratory Equipment (Specify Type):	Avoid breathing vapors and mists. If ventilation is not sufficient to effectively prevent buildup of vapors or mists and the exposure limit is exceeded, use a NIOSH/MSHA approved respirator. Use a NIOSH/MSHA approved respirator with organic vapor cartridges if the concentration is unknown.
Eye Protection:	Wear chemical splash goggles and a full-face shield where there is potential for eye contact.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves. nitrile gloves.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Chemical resistant boots.
Engineering Controls (Ventilation etc.):	Use adequate general or local exhaust ventilation to minimize exposure levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	Appearance: Light. Brown. Liquid. Odor: Odorless.	
pH:	13.0 - 13.5	at 25.0 C
Melting Point:	< 32.00 F	
Boiling Point:	No data.	
Flash Pt:	> 212.00 F	
Evaporation Rate:	NA	
Flammability (solid, gas):	No data available.	
Explosive Limits:	LEL: No data.	UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	NA	
Vapor Density (vs. Air = 1):	NA	



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Specific Gravity (Water = 1): 1.28
Density: NA
Bulk density: NA
Solubility in Water: Complete
Saturated Vapor Concentration: NA
Octanol/Water Partition Coefficient: No data.
Percent Volatile: NA
VOC / Volume: NA
HAP / Volume: NA
Autoignition Pt: NA
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: Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Excess heat, Incompatible materials, Ignition sources.

Incompatibility - Materials To Avoid: Strong oxidizers, Acids, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.

Hazardous Decomposition or Byproducts: High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: sulfur, When a confined space entry must be made, even into an empty tank, be sure to follow all appropriate confined entry procedures.

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

Conditions To Avoid - Hazardous Reactions: No data available.



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11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available. No information available. Teratogenicity: No information available. Reproductive Effects: No data available. Mutagenicity: No information available. Neurotoxicity: No data available. Other Studies: CAS# 1310-73-2 Acute toxicity, LDLO, Oral, Species: Rabbit, 500.0 mg/kg.
Irritation or Corrosion:	Other Studies: CAS# 1310-73-2 Standard Draize Test, Eyes, Species:Rabbit, 50.0 ug, 24H Standard Draize Test, Skin, Species: Rabbit, 500 mg, 24H.
Carcinogenicity/Other Information:	CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	Environmental: No information available. Physical: No information available.
Results of PBT and vPvB assessment:	Other Studies: CAS# 1310-73-2: LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 33000 - 100000 ug/L, 48H LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000 ug/L, 96H LC50, Cockle (Cerastoderma edule), adult(s) 330000 - 1000000 ug/L, 48H LC50, Guppy (Poecilia reticulata)}, young organism(s), 196.0 mg/L, 96H.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations. RCRA P-Series: None listed. RCRA U-Series: None listed.
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14. TRANSPORT INFORMATION

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Dyna Foam 200 N



LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Sodium Hydroxide Solution.
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN1824

Packing Group: II



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) | |

CAS #	Hazardous Components (Chemical Name)
1310-73-2	Sodium hydroxide

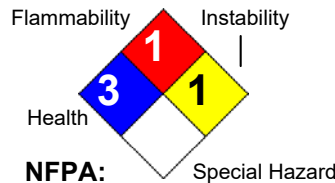
Other US EPA or State Lists

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

16. OTHER INFORMATION

Revision Date: 06/10/2020
Preparer Name: Jose Arias (562)697-1366

Hazard Rating System:



Additional Information About This Product: No data available.

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.

DYNA FOAM 200 N

(Formerly DOMOLISH RT-8)
ALKALI SURFACTANT BLEND

SAME
TRUSTED
FORMULA



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.

Response Phrases:

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.

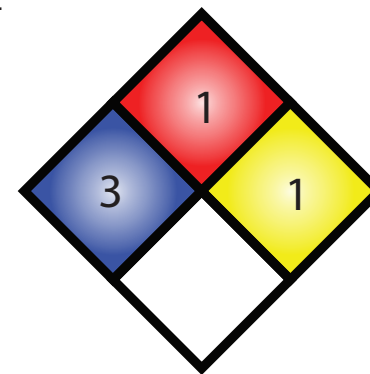
Storage/Disposal: Dispose of contents and containers in accordance with local, regional, national, and international regulations.

Supplemental Information: This product may be fatal if swallowed. When entering a tank, even an empty one, follow all appropriate confined entry procedures (ANSI Z117.1).

KEEP OUT OF REACH OF CHILDREN.

CONTAINS: SODIUM HYDROXIDE. DO NOT USE ON ALUMINUM OR MIX WITH ACIDS.

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

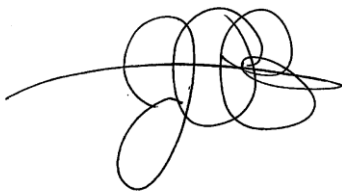
January 1, 2020

Based on current U.S. Food and Drug Administration Guidelines, this Letter of Guarantee certifies that the Shepard Bros., Inc. product, **Dyna Foam 200 N**, 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., Inc.
503 S. Cypress St.
La Habra, CA 90631

SHEPARD BROS. (562) 697-1366

Dyna Foam 200 N
Caustic Soda Test Kit
SBRTK3000-Z

1. Rinse vial 3 times with solution to be tested.
2. Fill bottle to 10, 20 or 25 mL mark with sample.
3. Add 3 drops of Phenolphthalein indicator (PH1605), and swirl to mix. The solution should turn pink.
4. Add Hydrochloric acid 7.7N (HA6207), dropwise while stirring until the sample returns to its original color. Hold dropper vertically. Count number of drops added.
5. **CALCULATIONS:**

***Using 10 mL sample: 1 drop = 0.1% alkalinity as sodium hydroxide (by weight)**

Multiply number of drops x 0.1 to obtain % alkalinity as Caustic Soda (by weight)

Multiply number of drops x 0.25 to obtain % product (by volume)

Multiply number of drops x 0.334 to obtain fl-oz product/gal

Multiply number of drops x 2500 to obtain ppm product in solution (by vol)

Example: 1% solution by vol = 4 drops

2% solution by vol = 8 drops

1fl-oz/gal = 3 drops

2fl-oz/gal = 6 drops

4fl-oz/gal = 12 drops

0.5% as Sodium Hydroxide= 5 drops

1% as Sodium Hydroxide= 10 drops

1.2% as Sodium Hydroxide= 12 drops

1.6% as Sodium Hydroxide= 16 drops

***Using 20 mL sample: 1 drop = 0.05% alkalinity as sodium hydroxide (by weight)**

Multiply number of drops x 0.05 to obtain % alkalinity as Caustic Soda (by weight)

Multiply number of drops x 0.144 to obtain % product (by volume)

Multiply number of drops x 0.2 to obtain fl-oz product/gal

Multiply number of drops x 1440 to obtain ppm product in solution (by vol)

Example: 1% solution by vol = 7 drops

2% solution by vol = 14 drops

1fl-oz/gal = 5 drops

1 % as Sodium Hydroxide= 20 drops

***Using 25 mL sample: 1 drop = 0.04% alkalinity as sodium hydroxide (by weight)**

Multiply number of drops x 0.04 to obtain % alkalinity as Caustic Soda (by weight)

Multiply number of drops x 0.11 to obtain % product (by volume)

Multiply number of drops x 0.143 to obtain fl-oz product/gal

Multiply number of drops x 1100 to obtain ppm product in solution (by vol)

Example: 1% solution by vol = 9 drops

1 fl-oz/gal = 7 drops

1 % as Sodium Hydroxide= 25 drops

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