

# Dyna Foam 300 K



## Technical Dossier

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S H E P A R D   B R O S .   I N C .

# DYNA FOAM 300 K

## Penetrating Alkaline Cleaner

### PRODUCT DESCRIPTION

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**DYNA FOAM 300 K** is a potassium based, progressive alkaline cleaning compound specifically designed for the removal of baked-on food soils and deposits.

**DYNA FOAM 300 K** 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.

### PROPERTIES AND BENEFITS

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- High foam with excellent cleaning, wetting, and penetration properties.
- Easily dilutable in water.
- Potassium alkali. 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

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**DYNA FOAM 300 K** 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 300 K** will generate heat during addition to water. Always add **DYNA FOAM 300 K** to the water.

It is recommended that **DYNA FOAM 300 K** be slowly added to cold water

(Rev. 07/18)

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.

under mild agitation to facilitate heat dissipation.

## **PROPERTIES AND SAFE HANDLING**

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A Safety Data Sheet containing detailed information about **DYNA FOAM 300 K** is available on request and should be reviewed prior to using this product.

(Rev. 07/18)

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Code:** DF300K  
**Product Name:** Dyna Foam 300 K  
**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

**Acute Toxicity: Oral, Category 4**

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



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:**

H302 - Harmful if swallowed.  
H314 - Causes severe skin burns and eye damage.

**GHS Precautionary Phrases:**

P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
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. P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
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):**

Chronic: Effects may be delayed.

**Inhalation:**

Harmful if inhaled. Can cause burns of mucous membranes, throat, esophagus, and stomach.

**Skin Contact:**

Causes severe skin irritation. Causes skin burns. Can cause severe injury (reddening and swelling). Dermatitis.

**Eye Contact:**

Causes severe eye burns. Causes redness and pain. May cause irreversible eye injury. Contact may lead to permanent blindness.

**Ingestion:**

Can burn mouth, throat and stomach. Causes gastrointestinal tract burns. May cause severe and permanent damage to the digestive tract. May cause perforation of the digestive tract. May cause systemic effects. and possible death.



# SAFETY DATA SHEET

## Dyna Foam 300 K

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-58-3	Potassium hydroxide	<30.0 %

### 4. FIRST AID MEASURES

#### Emergency and First Aid

##### Procedures:

<b>In Case of Inhalation:</b>	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.
<b>In Case of Skin Contact:</b>	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.
<b>In Case of Eye Contact:</b>	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.
<b>In Case of Ingestion:</b>	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.
<b>Note to Physician:</b>	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

### 5. FIRE FIGHTING MEASURES

<b>Flash Pt:</b>	> 212.00 F
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	NA
<b>Suitable Extinguishing Media:</b>	Foam, CO2, water fog, sand/earth.
<b>Fire Fighting Instructions:</b>	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.
<b>Flammable Properties and Hazards:</b>	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: potassium, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
<b>Hazardous Combustion Products:</b>	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: potassium, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.



# SAFETY DATA SHEET

## Dyna Foam 300 K

### 6. ACCIDENTAL RELEASE MEASURES

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Environmental Precautions:</b>	Do not let product enter drains, sewers, watersheds or water systems.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Spills/Leaks: Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Provide ventilation. 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. Neutralize residual product with a weak acid, such as acetic acid.

### 7. HANDLING AND STORAGE

<b>Precautions To Be Taken in Handling:</b>	Use as directed. Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Avoid contact with eyes, skin, and clothing. Remove contaminated clothing and wash before reuse. Keep away from heat, sparks and flame.
<b>Precautions To Be Taken in Storing:</b>	Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. Keep away from oxidizing agents. Do not store in direct sunlight. Keep away from strong acids. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.
<b>Other Precautions:</b>	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
1310-58-3	Potassium hydroxide	No data.	CEIL: 2 mg/m3	No data.
CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
1310-58-3	Potassium hydroxide	NIOSH	TWA: 1 mg/m3 CEIL: 2 mg/m3	

<b>Respiratory Equipment (Specify Type):</b>	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 a full-facepiece or a full-facepiece respirator with organic vapor cartridges when concentrations are unknown.
<b>Eye Protection:</b>	Wear chemical splash goggles and a full-face shield where there is potential for eye contact.
<b>Protective Gloves:</b>	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves. nitrile gloves.
<b>Other Protective Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Rubber or neoprene boots.
<b>Engineering Controls (Ventilation etc.):</b>	Ensure adequate ventilation, especially in confined areas. 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.
<b>Work/Hygienic/Maintenance Practices:</b>	Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical States:</b>	[ ] Gas    [X] Liquid    [ ] Solid	
<b>Appearance and Odor:</b>	Appearance: Dark. Brown. Liquid. Odor: Odorless.	
<b>pH:</b>	NA	
<b>Melting Point:</b>	< 32.00 F	
<b>Boiling Point:</b>	NA	
<b>Flash Pt:</b>	> 212.00 F	
<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>	~ 1.20	
<b>Density:</b>	~ 10.03 LB/GA	
<b>Bulk density:</b>	NA	
<b>Solubility in Water:</b>	Complete	
<b>Saturated Vapor Concentration:</b>	NA	
<b>Octanol/Water Partition Coefficient:</b>	No data.	
<b>Percent Volatile:</b>	NA	
<b>VOC / Volume:</b>	NA	
<b>HAP / Volume:</b>	NA	
<b>Autoignition Pt:</b>	NA	
<b>Decomposition Temperature:</b>	NA	
<b>Viscosity:</b>	NA	
<b>Particle Size:</b>	NA	
<b>Heat Value:</b>	NA	
<b>Corrosion Rate:</b>	NA	
<b>Molecular Formula &amp; Weight:</b>	PROPRIETARY	0.0

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
<b>Stability:</b>	Unstable [ ]    Stable [X]
<b>Conditions To Avoid - Instability:</b>	High temperatures, Incompatible materials, Ignition sources.
<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizers, Acids, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
<b>Hazardous Decomposition or Byproducts:</b>	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: potassium, When a confined space entry must be made, even into an empty tank, be sure to follow all appropriate confined entry procedures.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]    Will not occur [X]
<b>Conditions To Avoid - Hazardous Reactions:</b>	No data available.

## 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# 1310-58-3:  
 Acute toxicity, LD50, Oral, Rat, 273 mg/kg

**Irritation or Corrosion:** Other Studies: CAS# 1310-58-3:  
 Standard Draize Test, Skin, Species: Rabbit, 50.0 mg, 24H

**Carcinogenicity/Other Information:** CAS# 1310-58-3: 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 found.  
 Physical: No information found.

**Results of PBT and vPvB assessment:** Other Studies: CAS# 1310-58-3:  
 LC50, Western Mosquitofish (*Gambusia affinis*), adult(s), 80000 ug/L, 96H, Mortality

**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.

## 14. TRANSPORT INFORMATION

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Potassium Hydroxide, Solution.  
**DOT Hazard Class:** 8 CORROSIVE  
**UN/NA Number:** UN1814 **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)
1310-58-3	Potassium hydroxide	No	Yes 1000 LB	No

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

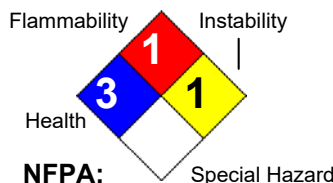
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explosive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acute toxicity (any route of exposure)
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Flammable (gases, aerosols, liquid, or solid)	<input 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)	Other US EPA or State Lists
1310-58-3	Potassium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8

## 16. OTHER INFORMATION

**Revision Date:** 06/10/2020  
**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.

# Dyna Foam 300 K

(Formerly Domolish RT-8K)  
ALKALI SURFACTANT BLEND

SAME  
TRUSTED  
FORMULA

## DANGER

Harmful if swallowed.

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. Do not eat, drink or smoke when using this product.

## 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. Immediately call a POISON CENTER or a doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or a doctor if you feel unwell.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

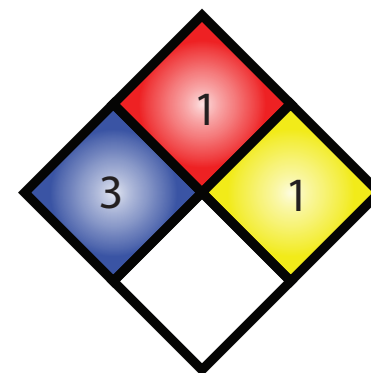
**Storage/Disposal:** Dispose of contents and containers in accordance with local, regional, national, and international regulations.

**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: POTASSIUM HYDROXIDE.  
DO NOT USE ON ALUMINUM. DO NOT 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:

# UN1814,

## POTASSIUM HYDROXIDE, SOLUTION, 8, PGI

PRODUCT ID:

BATCH NO.:

NET CONTENTS:



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



SHEPARD BROS.

Shepard Bros., Inc.  
503 S. Cypress St.  
La Habra, CA 90631  
(562) 697-1366

**Dyna Foam 300 K**  
Alkalinity Test Kit  
**SBRTK5050-Z**

1. Fill test tube (0701) to 10mL line with sample water.
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 the sample color turns clear.  
Count the number of drops. Hold bottle vertically.

**Calculations:**

number of drops x 112 = to obtain ppm active alkalinity as Potassium Hydroxide (by weight)

number of drops x 80 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x 0.044 = to obtain % product in solution (by volume)

number of drops x 0.056 = to obtain fl-oz product/gallon

number of drops x 440 to obtain ppm product in solution (by volume)

**Example:** 1.0 fl-oz/gal = 18 drops

1% product in solution by vol = 23 drops

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

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