

Domolish ALS



Technical Dossier

Table of Contents

- Technical Bulletin
- SDS
- Label
- Letter of Guarantee
- Titration Procedure



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

DOMOLISH ALS

Metal Safe Alkaline Cleaner

DESCRIPTION

DOMOLISH ALS is a foaming concentrated liquid blend of alkaline cleaners, detergents, wetting agents and solvents specifically formulated for the spray, soak and foam-cleaning of food processing equipment.

CHARACTERISTICS AND BENEFITS

- Balanced blend of powerful degreasers, alkaline cleaners, detergents and highly effective wetting agents for maximum soil penetration and removal
- Rapidly attacks and removes protein soils, fats, grease, and cooked-on oils reducing clean up time
- Stable foam formation for improved cleaner retention and effectiveness
- Built-in water conditioners prevent hard water precipitates - works in all waters
- Clear, free rinsing-leaves stainless steel bright and shiny
- Non-abrasive / Non-corrosive – safe on all metals and plastics
- Easy to use, stable liquid formulation
- Environmentally friendly ingredients

USE DIRECTIONS

Typical use dilution for this product is 1-8 fluid ounces per 1 to 2 gallons.

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

PROPERTIES AND SAFE HANDLING

A Safety Data Sheet containing detailed information on the properties and safe handling of Shepard Bros., Inc. **DOMOLISH ALS** is available on request and should be carefully reviewed prior to using this product.

(Rev. 7/17)

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



SAFETY DATA SHEET

Domolish ALS

Page: 1 of 7

Printed: 06/10/2020

Revision: 06/10/2020

Supersedes Revision: 11/11/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: DALS
Product Name: Domolish ALS
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

GHS Signal Word: None
GHS Hazard Phrases: No phrases apply.
GHS Precautionary Phrases: No phrases apply.
GHS Response Phrases: P332+313 - If skin irritation occurs, get medical advice/attention.
GHS Storage and Disposal Phrases: No phrases apply.
Other Hazards: Causes mild skin irritation.
Potential Health Effects (Acute and Chronic): Chronic: May cause kidney injury. Chronic exposure may cause liver damage.
Inhalation: Inhalation may cause dizziness, respiratory tract burns, and pulmonary edema.
Skin Contact: May cause skin irritation. Can cause chemical burn.
Eye Contact: Causes severe eye irritation. Can cause chemical burn. May cause transient corneal injury. Risk of serious damage to eyes.
Ingestion: Harmful if swallowed. May cause burns to the mouth, esophagus, and stomach resulting in pain and vomiting. May cause kidney damage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
112-34-5	Diethylene glycol monobutyl ether	< 5.0 %
25155-30-0	Sodium dodecylbenzene sulfonate	0.0 -3.0 %
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	< 2.0 %

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 aid if irritation develops or persists.
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 attention immediately.
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt:	> 160.00 F	Method Used:	Pensky-Marten Closed Cup
Explosive Limits:	LEL: No data.	UEL:	No data.
Autoignition Pt:	NA		
Suitable Extinguishing Media:	Use water fog, dry chemical, carbon dioxide, or regular foam.		
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. Use water with caution and in flooding amounts.		
Flammable Properties and Hazards:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: phosphorus, sodium, potassium.		
Hazardous Combustion Products:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: phosphorus, sodium, potassium.		

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:	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. Neutralize residual product with a weak acid, such as acetic acid.

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. Keep away from sources of ignition. Keep away from oxidizing agents. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.



SAFETY DATA SHEET

Domolish ALS

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
112-34-5	Diethylene glycol monobutyl ether	No data.	No data.	No data.
25155-30-0	Sodium dodecylbenzene sulfonate	No data.	No data.	No data.
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	PEL: 100 ppm	TLV: 100 ppm STEL: 150 ppm	No data.

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	NIOSH	TWA: 600 mg/m3 (100 ppm) STEL: 900 mg/m3 (150 ppm)	Skin Absorption

Respiratory Equipment (Specify Type): No special respiratory protection equipment is required with adequate ventilation. Use a NIOSH/MSHA approved respirator, with a full-facepiece or a full-facepiece respirator with organic vapor cartridges when concentrations are unknown.

Eye Protection: Wear safety glasses with side shields or chemical splash goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Rubber or neoprene boots.

Engineering Controls (Ventilation etc.): Ensure adequate ventilation, especially in confined areas. Local exhaust is usually adequate. 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: Transparent. Amber. Liquid. Odor: Mild solvent.
pH:	7.5
Melting Point:	< 32.00 F
Boiling Point:	> 212.00 F
Flash Pt:	> 160.00 F Method Used: Pensky-Marten Closed Cup
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
Specific Gravity (Water = 1):	1.06
Density:	NA
Bulk density:	NA
Solubility in Water:	Complete
Saturated Vapor Concentration:	NA



SAFETY DATA SHEET

Domolish ALS

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

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: phosphorus, sodium, potassium.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High temperatures, Incompatible materials, Ignition sources.
Incompatibility - Materials To Avoid:	Strong oxidizing agents, Acids, Alkaline materials.
Hazardous Decomposition or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, and oxides of: phosphorus, sodium, potassium, 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.

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 information available. Mutagenicity: No information available. Neurotoxicity: No data available. Other Studies: CAS# 25155-30-0: Acute toxicity, LD50, Oral, Rat, 438.0 mg/kg. Other Studies: CAS# 112-34-5: Acute toxicity, LD50, Oral, Rat, 5660 mg/kg. Other Studies: CAS# 34590-94-8: Acute toxicity, LD50, Oral, Rat, 5400 ul/kg Acute toxicity, LD50, Skin, Rabbit, 10 ml/kg
Irritation or Corrosion:	Other Studies: CAS# 25155-30-0: Standard Draize Test, Skin, Species: Rabbit, 20.0 mg, 24H



SAFETY DATA SHEET

Domolish ALS

Standard Draize Test, Eyes, Species: Rabbit, 250.0 ug, 24H.

Other Studies: CAS# 112-34-5:

Standard Draize Test, Eyes, Species: Rabbit, 20.0 mg, 24 H.

Other Studies: CAS# 34590-94-8:

Standard Draize Test, Eyes, Species: Rabbit, 500 mg, 24H

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

12. ECOLOGICAL INFORMATION

No data available.

Results of PBT and vPvB assessment:

Other Studies: CAS# 25155-30-0:

LC50, Bluegill (*Lepomis macrochirus*), 3450 ug/L, 24H, Mortality

LC50, Water Flea (*Daphnia pulex*), 19870.0 ug/L, 48H, Mortality

LC50, Minnow (*Phoxinus phoxinus*), 6000 ug/L, 24H, Mortality

LC50, Catfish (*Rita rita*), 6000 ug/L, 96H, Mortality

Other Studies: CAS# 112-34-5:

LC50, Water Flea (*Daphnia magna*), 2850 mg/l, 24 H, Intoxication

LC50, Carp (*Leuciscus idus* ssp. *melanotus*), 1805 mg/l, 48 H, Mortality.

Persistence and Degradability:

Aquatic: Water temperature affects biodegradation. The rate of sodium-C12 linear alkylbenzene sulfonic acids biodegradation in Chesapeake Bay water was max at 25-30 deg C and decreased at lower incubation temperatures.

Terrestrial: The adsorption of sodium-C12 linear alkylbenzene sulfonic acids is affected by the type of soil. The affinity of the soil for surfactants competes with microbial attack, slowing biodegradation. (HSDB)

Physical: According to a model of gas/particle partitioning of semivolatile organic compounds in the atmosphere, diethylene glycol mono-n-butyl ether, which has a measured vapor pressure of 0.06 mm Hg at 25 deg C, will exist solely as a vapor in the ambient atmosphere. Vapor-phase diethylene glycol mono-n-butyl ether is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the half-life for this reaction in air is estimated to be about 10 hours. Alcohols and ethers do not absorb UV light in the environment.

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: Not Regulated.

DOT Hazard Class:

UN/NA Number:

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)
112-34-5	Diethylene glycol monobutyl ether	No	No	Yes-Cat. N230
25155-30-0	Sodium dodecylbenzene sulfonate	No	Yes 1000 LB	No
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	No	No	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)		

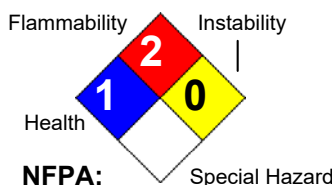
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
112-34-5	Diethylene glycol monobutyl ether	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Yes - Cat.
25155-30-0	Sodium dodecylbenzene sulfonate	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8
34590-94-8	Propanol, (2-Methoxymethylethoxy)-	TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: Title 8

Regulatory Information: PROPOSITION 65 (Chemicals known to the state of California to cause cancer or reproductive toxicity): This product may contain traces of: ethylene oxide (CAS 75-21-8).

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.



SAFETY DATA SHEET

Domolish ALS

Page: 7 of 7

Printed: 06/10/2020

Revision: 06/10/2020

Supersedes Revision: 11/11/2013

Users should make their own investigations to determine the suitability of the information for their particular purposes.

DOMOLISH ALS

(Formerly Flex ALS)
METAL SAFE CLEANER

WARNING

Causes mild skin irritation.

Response Phrases:

IF skin irritation occurs, get medical advice/attention.

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 and is injurious to the eyes. Protect eyes, skin, mucous membranes, and clothing from contact. Wear rubber gloves, goggles or face shield, and protective clothing when handling this product. Take proper precautions, especially when using this product in an enclosed or semi-enclosed area.

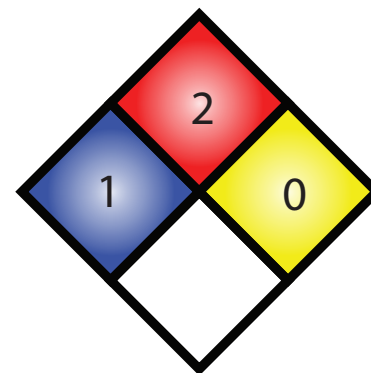
KEEP OUT OF REACH OF CHILDREN.

SAME
TRUSTED
FORMULA

CONTAINS: DIETHYLENE GLYCOL MONOBUTYL ETHER, DIPROPYLENE GLYCOL METHYL ETHER, DODECYLBENZENE SULFONIC ACID.

AVOID BREATHING VAPORS OR MISTS.

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: NOT REGULATED.

PRODUCT ID:

BATCH NO.:

NET CONTENTS:



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

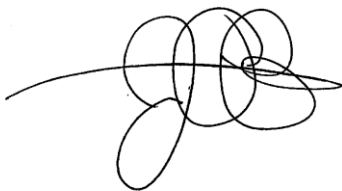
January 1, 2020

Based on current U.S. Food and Drug Administration Guidelines, this Letter of Guarantee certifies that the Shepard Bros., Inc. product, **Domolish ALS**, 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

Domolish ALS
Alkalinity Test Kit
SBRTK1023-Z

1. Rinse vial 3 times with tap water.
2. Run a blank: Fill bottle to 10 mL mark with water used to dilute the product.
3. Add 5 drops of Total Alkalinity Indicator (AI6925), and swirl to mix. The solution should turn green.
4. Add Alkalinity Titrant SA1555 LOW dropwise while swirling, until the sample color changes from green to red. Record number of drops. Hold dropper vertically.
5. This result is the number of drops from blank.
6. Rinse vial 3 times with tap water.
7. Fill bottle to 10 mL mark with sample solution to be tested.
8. Repeat Step 3 and 4. Record number of drops for sample.

CALCULATIONS:

STEP 1:

Subtract number of drops from sample minus number of drops from blank then multiply by selected factor:

Example: # drops from blank (water used to dilute product) = 10

drops from sample = 24

number of drops = # drops sample - # drops Blank

number of drops = 24 - 10 = 14

STEP 2:

number of drops x 20 to obtain ppm alkalinity as Sodium Hydroxide (by weight)

number of drops x 28 to obtain ppm alkalinity as Potassium Hydroxide (by weight)

number of drops x 25 to obtain ppm alkalinity as Calcium Carbonate (by weight)

number of drops x 0.2 = % product in solution

number of drops x 0.25 to obtain fl-oz product/gal

number of drops x 2000 = ppm product in solution

Example: 1% solution = 5 drops

2% solution = 10 drops

2 fl-oz/gal = 8 drops

3 fl-oz/gal = 12 drops

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