Dissolve XL



Technical Dossier

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Shepard Bros. Inc. | 503 S. Cypress St. La Habra, CA 90631 800.645.3594 | www.shepardbros.com



SHEPARD BROS. INC.

DISSOLVE XL General Purpose and Degreaser

PRODUCT DESCRIPTION

DISSOLVE XL is a concentrated liquid blend of alkaline cleaners, detergents, wetting agents and solvents specifically formulated for the spray, soak and foam-cleaning of food processing equipment and their operations.

DISSOLVE XL is authorized by the U.S. Department of Agriculture for use in federally inspected poultry, meat and egg product plants as a floor and wall cleaner for use in all departments.

DISSOLVE XL is a heavy-duty low alkaline detergent concentrate used for cleaning concrete, clay and quarry tile, brick, terrazzo and other hard flooring materials.

PROPERTIES AND BENEFITS

- Formulated for removing the heavy soils commonly found in food processing areas.
- Exceptional wetting agent action helps assure quick and thorough soil penetration.
- Removes grime, oil, and grease on floors in processing areas.
- Exhibits high foam with good detergency characteristics
- Safe on painted surfaces.
- Rinses quickly and easily.
- A versatile, multi-job cleaner.
- Great for use in hard water conditions.
- Concentrated form allows for easy adaptation to any cleaning application.

USE DIRECTIONS

Typical Use Dilution: 1-4 fluid oz. to one gallon water

Heavy duty cleaning applications may warrant the use of more concentrated cleaning solutions.

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

⁽Rev. 03/17)

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.



1. PRODUCT AND COMPANY IDENTIFICATION

Product Code:	DXL
Product Name:	Dissolve XL
Company Name:	Shepard Bros., Inc. 503 S. Cypress St.
Mahaita adducas.	La Habra, CA 90631
Web site address:	www.shepardbros.com
Emergency Contact:	CHEMTREC
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Phone Number: +1 (562)697-1366

+1 (800)424-9300

Product Category:

Degreaser

2. HAZARDS IDENTIFICATION

Acute Toxicity: Inhalation, Category 4 Acute Toxicity: Oral, Category 4 Acute Toxicity: Skin, Category 4 Skin Corrosion/Irritation, Category 1A Serious Eye Damage/Eye Irritation, Category 2A Target Organ Systemic Toxicity (single exposure), Category 3



GHS Signal Word:	Danger
GHS Hazard Phrases:	H332 - Harmful if inhaled.
	H302 - Harmful if swallowed.
	H312 - Harmful in contact with skin.
	H314 - Causes severe skin burns and eye damage.
	H319 - Causes serious eye irritation.
	H335 - May cause respiratory irritation.
GHS Precaution Phrases:	P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264 - Wash hands thoroughly after handling.
	P270 - Do not eat, drink or smoke when using this product.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P362+364 - Take off contaminated clothing and wash it before reuse.
	P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
GHS Response Phrases:	P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position
	comfortable for breathing. P315 - Get immediate medical advice/attention.
	P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.
	P302+352 - IF ON SKIN: Wash with plenty of soap and water. Get medical aid if irritation develops and persists.
	P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. Get medical aid if irritation
	develops and persists.
	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/container in accordance with local / regional / national / international regulations.



Hazard Rating System:



Potential Health Effects (Acute and Chronic):	Chronic: May cause liver and kidney damage. Sophisticated modeling has clearly proven that 2-butoxyethanol does not build up in the body under any kinds of normal use. Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. Effects may be delayed.
Inhalation:	May cause respiratory irritation. May cause headaches and dizziness.
Skin Contact:	Harmful if absorbed through the skin. Can cause reddening and irritation of the skin.
Eye Contact:	May cause eye irritation. Causes redness and tearing.
Ingestion:	Harmful if swallowed. May cause irritation of the digestive tract. May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
111-76-2	Ethylene glycol monobutyl ether	5.00 - 10.0 %
1310-58-3	Potassium hydroxide	1.00 - 5.00 %
6834-92-0	Disodium trioxosilicate	1.00 - 5.00 %

4. FIRST AID MEASURES

Emergency and First Aid	
Procedures:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give
In Case of Inhalation:	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 and 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 medical aid if irritation develops and persists.
In Case of Ingestion:	Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.
Signs and Symptoms Of Exposure:	Burning sensation, Cough, Wheezing, Laryngitis, Shortness of breath.
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.



	5. FIRE FIGHTING MEASURES
Flash Pt:	NA
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	NA
Suitable Extinguishing Media	a: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.
	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.
	7. HANDLING AND STORAGE
Precautions To Be Taken in Handling:	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. Do not store in direct sunlight. 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
111-76-2	Ethylene glycol monobutyl ether		PEL: 50 ppm (skin)	TLV: 20 ppm	No data.
1310-58-3	3-3 Potassium hydroxide		PEL: 2 mg/m3	TLV: 2 mg/m3 CEIL: 2 mg/m3	No data.
6834-92-0	Disodium trioxos	ilicate	No data.	No data.	No data.
Respiratory (Specify Typ	• •	required with adequ	pors and mists. No special uate ventilation. Use a NIO ull-facepiece respirator wit unknown.	SH/MSHA approved resp	irator, with a
Eye Protecti	on:	, .	s with side shields. Wear c is potential for eye contact		nd a full-face
Protective G	loves:	Wear appropriate p gloves.	rotective gloves to prevent	skin exposure. Rubber o	r neoprene
Other Protec	ctive Clothing:	Wear appropriate p Rubber or neopren	rotective clothing to prever e boots.	nt skin exposure. Chemica	al resistant apron.



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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:

enance Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Appearance: Transparent. Light pink. Liquid. Odor: Mild solvent. Welting Point: < 32.0 F (0 C) Boiling Point: > 212 F (100 C) Decomposition Temperature: NA Autoignition Pt: NA Explosive Limits: LEL: No data. UEL: No data. UEL: No data. Specific Gravity (Water =1): 1.10 Density: NA Bulk density: NA Vapor Pressure (vs. Air or NA mm Hg):	Physical States:	[]Gas [X]Liquid []Solid
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	11. TOXICOLOGICAL INFORMATION
Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No data available. Mutagenicity: No information available. Neurotoxicity: No information available. Other Studies: CAS # 111-76-2: Acute toxicity, LC50, Inhalation, Rat, 450.0 ppm, 4 H. Acute toxicity, LD50, Oral, Rat, 470.0 mg/kg Acute toxicity, LD50, Skin, Rabbit, 220.0 mg/kg.
	Other Studies: CAS# 1310-58-3: Acute toxicity, LD50, Oral, Rat, 273 mg/kg Other Studies: CAS# 6834-92-0:
Irritation or Corrosion:	Acute toxicity, LD50, Oral, Rat, 1000 mg/kg. Other Studies: CAS # 111-76-2: Standard Draize Test, Eyes, Species: Rabbit, 100.0 mg, 24 H.
	Other Studies: CAS# 1310-58-3: Standard Draize Test, Skin, Species: Rabbit, 50.0 mg, 24H
Carcinogenicity:	Other Studies: CAS# 6834-92-0: Standard Draize Test, Skin, Species: Rabbit, 250.0 mg, 24H. NTP? No IARC Monographs? No OSHA Regulated? No
	12. ECOLOGICAL INFORMATION
	No data available.
Results of PBT and vPvB assessment:	Other Studies: CAS# 111-76-2: LC50, Water Flea (Daphnia magna), 1720 mg/l, 24 H, Intoxication LC50, Common Shrimp, Sand Shrimp (Crangon crangon), 775000 ug/l, 96 H, Mortality LC50, Amphipod (Chaetogammarus marinus), young organism(s), 1000 mg/l, 24 H, Mortality LC50, Carp (Leuciscus idus ssp. melanotus), 1575 mg/l, 48 H, Mortality Effective concentration to 0% of test organisms, Blue-Green Algae (Microcystis aeruginosa), 156000 ug/L,Population Other Studies: CAS# 1310-58-3: LC50, Western Mosquitofish (Gambina affinis), adult(s), 80000 ug/L, 96H, Mortality
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	An estimated BCF value of 2.5 was calculated for ethylene glycol mono-n-butyl ether, using an experimental log Kow of 0.83 and a recommended regression-derived equation. According to a recommended classification scheme, this BCF value suggests that bioconcentration in aquatic organisms is low.
Mobility in Soil:	TERRESTRIAL FATE: Based on a recommended classification scheme, an estimated Koc value of 67,, determined from an experimental log Kow and a recommended regression-derived equation, indicates that ethylene glycol mono-n-butyl ether is



expected to have high mobility in soil.

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:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name:

Not Regulated.

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)
111-76-2	Ethylene glycol monobutyl ether	No	No	Yes-Cat. N230
1310-58-3	Potassium hydroxide	No	Yes 1000 LB	No
6834-92-0	Disodium trioxosilicate	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EBA or	Stato Lists	
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists	
CAS # 111-76-2	Hazardous Components (Chemical Name) Ethylene glycol monobutyl ether			CA TAC, Title 8: TAC,
	,			CA TAC, Title 8: TAC,
	,	TSCA: Inventory; Title 8	CA PROP.65: No;	CA TAC, Title 8: TAC, CA TAC, Title 8: Title 8
111-76-2	Ethylene glycol monobutyl ether	TSCA: Inventory; Title 8 TSCA: Inventory;	CA PROP.65: No; CA PROP.65: No;	

16. OTHER INFORMATION		
Revision Date:	11/14/2013	
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.	

DISSOLVE XL (Formerly Dissolve 101)

LIQUID DEGREASER AND

CLEANER DANGER

Harmful if inhaled. Harmful if swallowed. Causes serious eye irritation.

Causes severe skin burns and eye damage.

Precautionary Statements: Use only outdoors or in a well-ventilated area. 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. If eye irritation persists, get medical advice/ attention.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or a doctor.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

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. Take proper precautions, especially when using this product in an enclosed or semi-enclosed area.

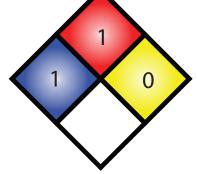
KEEP OUT OF REACH OF CHILDREN.



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

CONTAINS: ETHYLENE CLYCOL MONOBUTYL ETHER. DO NOT USE ON ALUMINUM OR MIX WITH ACIDS. DO NOT STORE PRODUCT IN DIRECT SUNLIGHT.

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:



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, **Dissolve XL**, 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



- 1. For diluted solutions use 35 mL sample. For concentrated solutions use 25 mL sample.
- 2. Rinse vial 3 times with solution to be tested.
- 3. Fill bottle to 25 or 35 mL mark with sample.
- 4. Add 3 drops of Phenolphtalein indicator (PH1605), and swirl to mix. The solution should turn pink. Add Alkalinity Titrant High (SA1595) dropwise while swirling, until the sample color changes from pink to colorless. Record number of drops. Hold dropper vertically.

5. RESULTS:

If using a 35 mL sample:

number of drops x 30.2 to obtain ppm alkalinity as Sodium Hydroxide (by weight) number of drops x 42.3 to obtain ppm alkalinity as Potassium Hydroxide (by weight) number of drops x 37.7 to obtain ppm alkalinity as Calcium Carbonate (by weight) number of drops x 0.200 to obtain % product (by volume) number of drops x 0.250 to obtain fl-oz product/gal

number of drops x 2000 to obtain ppm product in solution (by volume)

Example: 1 fl-oz/gal = 4 drops

2 fl-oz/gal = 8 drops1% solution by vol = 5 drops

if using a 25 mL sample:

number of drops x 40 to obtain ppm alkalinity as Sodium Hydroxide (by weight) number of drops x 56.1 to obtain ppm alkalinity as Potassium Hydroxide (by weight) number of drops x 50 to obtain ppm alkalinity as Calcium Carbonate (by weight) number of drops x 0.250 to obtain % product (by volume) number of drops x 0.334 to obtain fl-oz product/gal number of drops x 2500 to obtain ppm product in solution (by volume) **Example:** 2 fl-oz/gal = 6 drops 3 fl-oz/gal = 9 drops1% solution by vol = 4 drops

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

Rev 02/20