DS-350

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.

DS-350

Chlorinated General Cleaner

PRODUCT DESCRIPTION

DS-350 is a powdered chlorinated general cleaner for manual cleaning operations in food processing facilities.

PROPERTIES AND BENEFITS

- Exceptionally high wetting action for manual cleaning procedures.
- Controlled foam aids in uniform cleaner applications.
- Excellent for cleaning floors, walls and equipment.
- Chlorinated to efficiently remove protein soils.
- A versatile multi-job cleaner.
- Works well in all water conditions minimizing mineral films.
- Exceptional wetting agent action helps assure quick and thorough soil and grease penetration.
- Safe for use on all metal, plastic, and painted surfaces.
- Non-corrosive to stainless steel at recommended use dilutions.
- Rinses quickly and easily.

AUTHORIZATION

DS-350 is suitable for use as a general cleaner in all departments of Federally inspected poultry, meat and egg product plants. A Letter of Guarantee for this application is available on request.

DIRECTIONS

Recommended Use Rate: 1-2 oz. / gallon of water.

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

SAFE HANDLING

A Safety Data Sheet containing detailed information on the properties and safe handling of **DS-350** is available on request and should be carefully reviewed prior to using this product.

(Rev. 11/16)

Shepard Bros., Inc. 503 S. Cypress St. La Habra, CA 90631 (800) 645-3594

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: DS350

Product Name: DS-350

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

Emergency Phone: +1 (800)424-9300

Product Category:

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 1

GHS Signal Word: **Danger**

GHS Hazard Phrases:
H315 - Causes skin irritation.
H318 - Causes serious eye damage.

GHS Precautionary Phrases:
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:
P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention. P362 - Take off contaminated clothing and wash before re-use.
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.
P391 - Collect spillage.

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

Other Hazards: Very toxic to aquatic life.

Potential Health Effects (Acute and Chronic): Chronic: No information available.

Inhalation: Irritating to the nose, throat and respiratory tract. May be harmful if inhaled.

Skin Contact: May cause skin irritation. Can cause severe injury (reddening and swelling).

Eye Contact: Mildly irritating to the eyes. Can cause severe eye irritation. Can cause moderate injury (reddening and swelling).

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract. Irritating to mouth, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
68081-81-2	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	5.0 -10.0 %
51580-86-0	Sodium dichloro-s-triazinetrione	1.0 -5.0 %

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: NA

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical, CO2, water spray 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.

Flammable Properties and Hazards: Temperatures above 420F may produce nitrogen trichloramine and carbon monoxide.

Hazardous Combustion Products: No data available.

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: 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: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin or clothing. Do not ingest or inhale. Keep away from heat, sparks and flame.

Precautions To Be Taken in Storing: Protect containers against damage. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Keep away from heat, sparks and flame. Keep container closed when not in use.

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
68081-81-2	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	No data.	No data.	No data.
51580-86-0	Sodium dichloro-s-triazinetrione	No data.	No data.	No data.

Respiratory Equipment (Specify Type): This material does not have established exposure limits. Wear a positive pressure air-supplied respirator in situations where there may be potential for airborne exposure.

Eye Protection: Safety glasses with side shields. Wear chemical splash goggles and a full-face shield where there is potential for eye contact.

Protective Gloves: Rubber gloves.

Other Protective Clothing: Lab coat and apron. Rubber or neoprene 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [ ] Gas [ ] Liquid [X] Solid

Appearance and Odor: Appearance: White. Powder.
Odor: Odorless.

pH: 11 - 12

Melting Point: NA

Boiling Point: NA

Flash Pt: NA

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): NA

Density: NA

Bulk density: 1.06 G/ML

Solubility in Water: Complete

Saturated Vapor Concentration: NA

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: No data.

Decomposition Temperature: No data.

Viscosity: NA

Molecular Formula & Weight: PROPRIETARY FORMULA 0.0

10. STABILITY AND REACTIVITY

Reactivity: Temperatures above 420F may produce nitrogen trichloramine and carbon monoxide.

Stability: Unstable [ ] Stable [X]

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

Incompatibility - Materials To Avoid: Strong acids, amines, Ammonia, Calcium hypochlorite, Sodium hypochlorite.

Hazardous Decomposition or Byproducts: Temperatures above 420F may produce nitrogen trichloramine and carbon monoxide.

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 data available.
Mutagenicity: No information available.
Neurotoxicity: No data available.
Other Studies: CAS# 68081-81-2:
Acute toxicity, LD50, Oral, Rat,438 mg/kg.

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

12. ECOLOGICAL INFORMATION

General Ecological Information:
Environmental: No data available.
Physical: No information available.
Other: Do not empty into drains.

Results of PBT and vPvB assessment:
Other Studies: CAS# 51580-86-0:
LC50, Bluegill (Lepomis macrochirus), 0.460 ppm, 96H, Mortality
LC50, Rainbow trout (Oncorhynchus mykiss), 0.250 ppm, 96H, Mortality
Effective concentration to 50% of test organisms, Water Flea (Daphnia magna), 0.280 ppm, 48H, Intoxication

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: 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)
68081-81-2	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	No	No	No
51580-86-0	Sodium dichloro-s-triazinetrione	No	No	No

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

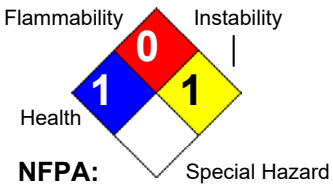
[ ] Yes [X] No	Explosive	[ ] Yes [X] No	Acute toxicity (any route of exposure)
[ ] Yes [X] No	Flammable (gases, aerosols, liquid, or solid)	[X] Yes [ ] No	Skin Corrosion or Irritation
[ ] Yes [X] No	Oxidizer (liquid, solid or gas)	[X] Yes [ ] No	Serious eye damage or eye irritation
[ ] Yes [X] No	Self-reactive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

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
68081-81-2	Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No
51580-86-0	Sodium dichloro-s-triazinetrione	TSCA: No; CA PROP.65: No; CA TAC, Title 8: No

16. OTHER INFORMATION

Revision Date: 11/19/2020

Hazard Rating System:



NFPA:

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.

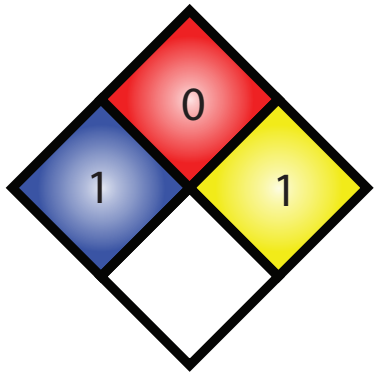
DS-350
CHLORINATED GENERAL CLEANER

DANGER
Causes skin irritation.
Causes serious eye damage.
Very toxic to aquatic life.

CONTAINS: Sodium dichloro-s-triazinetrione, Sodium dodecylbenzene sulfonic acid
DO NOT USE ON ALUMINUM OR MIX WITH ACIDS.
Contact your Shepard Bros., Inc. representative for more specific use instructions and recommended dispensing equipment.

Precautionary Statements: Wear protective gloves, protective clothing, eye protection and face protection. Wash hands thoroughly after handling.

First Aid:
IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
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.
SPECIFIC TREATMENT: See Section 4 of the SDS to reference supplemental first aid instruction if immediate measures are required.



Storage/Disposal: Collect spillage. 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.

Read safety data sheets for more detailed information.

PROPER SHIPPING NAME: NOT REGULATED.

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

PRODUCT ID:

BATCH NO.:

NET CONTENTS:

SHEPARD Bros. Inc.
Cleaners / Sanitizers / Water Treatment
503 S. Cypress St., La Habra, CA 90631
phone: 562/697-1366
fax: 562/697-5786

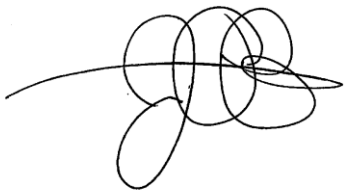
January 1, 2022

Based on current U.S. Food and Drug Administration Guidelines, this Letter of Guarantee certifies that the Shepard Bros., Inc. product, **DS-350**, 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
(562) 697-1366

DS-350

Chlorinated Cleaner Test Kit

SBRTK5000-Z

1. Fill test tube (0701) to 10mL line with sample water.
2. Add 3 drops of Phenolphtalein indicator (PH1605), mix (solution will turn pink)
3. If sample doesn't turn pink, add 5 drops of Sodium Thiosulfate (ST2970), and additional 3 drops of Phenolpthalein indicator, mix.
4. Add Sulfuric Acid 1.0 N (SA1625-B) drop-wise while swirling until sample turns clear. Count the number of drops. Hold bottle vertically.
5. **RESULTS:**
   number of drops x 160 = 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 oz product/gallon
   number of drops x 1270 to obtain ppm product in solution (by vol)

   Example: 2 oz/gal = 12 drops
   1 oz/gal = 6 drops
   1 oz/ 2 gal = 3 drops
   1% product in solution by volume = 8 drops

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

Rev 03/2020

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

DS-350

Chlorinated Cleaner Test Kit

SBRTK5050-Z

1. Fill test tube (0701) to 10mL line with sample water.
2. Add 3 drops of Phenolphtalein indicator (PH1605), mix (solution will turn pink)
3. If sample doesn't turn pink, add 5 drops of Sodium Thiosulfate (ST2970), and additional 3 drops of Phenolpthalein indicator, mix.
4. Add Sulfuric Acid 0.5N (SA7590) drop-wise while swirling until the sample color turns clear. Count the number of drops. Hold bottle vertically.
5. **RESULTS:**
   number of drops x 80 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)
   number of drops x 0.063 = to obtain % product in solution (by volume)
   number of drops x 0.084 = to obtain oz product/gallon
   number of drops x 630 to obtain ppm product in solution (by vol)
   Example: 1.0 oz/gal = 12 drops
   1.0 oz/ 2 gal = 6 drops
   1.0 oz/ 3 gal = 4 drops
   1% product in solution by volume = 16 drops

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

Rev 03/20