



**CHEMSTATION®**  
www.chemstation.com

**12237**

**GENERAL PURPOSE SHACKLE CLEANER**



**Warning**

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.



**Directions:**  
FOR INDUSTRIAL USE ONLY: Contact your sales representative for product usage.

**Dilutions:**  
1-10% typical

**Prevention:**

Wash thoroughly after handling.

Wear protective gloves, eye protection, face protection.

**Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

If skin irritation occurs: Get medical advice or attention.

If eye irritation persists: Get medical advice or attention.

**Storage:**

No GHS storage statements

**Disposal:**

No GHS disposal statements



Safety Data Sheet (SDS)  
12237

SDS Revision Date: 02/05/2021

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Identity 12237

Alternate Names 12237

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Contact ChemStation representative.

Application Method Contact ChemStation representative.

### 1.3. Details of the supplier of the safety data sheet

Company Name ChemStation  
2360 W Dorothy Lane Ste 112  
Dayton, OH 45439

Emergency (800) 424-9300  
CHEMTREC (USA)  
Customer Service: ChemStation (937) 534-0410

## 2. Hazard identification of the product

### 2.1. Classification of the substance or mixture

Skin Irrit. 3;H316 Causes mild skin irritation. (Note: this GHS classification was not adopted by US OSHA).  
Eye Irrit. 2;H319 Causes serious eye irritation.

### 2.2. Label elements



Warning

H316 Causes mild skin irritation.

H319 Causes serious eye irritation.

#### [Prevention]:

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection, face protection.

#### [Response]:

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P332+313 If skin irritation occurs: Get medical advice or attention.

P337+313 If eye irritation persists: Get medical advice or attention.

#### [Storage]:

No GHS storage statements

#### [Disposal]:

No GHS disposal statements

### 6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

## Section 7. Handling and storage

### 7.1. Precautions for safe handling

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: No data available.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

### 7.3. Specific end use(s)

No data available.

## Section 8. Exposure controls / personal protection

### 8.1. Control parameters

#### Exposure

CAS No.	Ingredient	Source	Value
0000111-76-2	2-Butoxy-ethanol	OSHA	TWA 50 ppm (240 mg/m <sup>3</sup> ) [skin]
		ACGIH	TWA: 20 ppm Revised 2003,
		NIOSH	TWA 5 ppm (24 mg/m <sup>3</sup> ) [skin]
		Supplier	No Established Limit
0057018-52-7	1-tert-Butoxypropan-2-ol	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

#### Carcinogen Data

CAS No.	Ingredient	Source	Value
0000111-76-2	2-Butoxy-ethanol	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;
0057018-52-7	1-tert-Butoxypropan-2-ol	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Wear safety glasses with side shields to protect the eyes. An eye wash station is suggested as a good workplace practice.

#### Skin

Keep skin contact to a minimum.

2-Butoxy-ethanol - (111-76-2)	1,414.00, Guinea Pg - Category: 4	1,200.00, Guinea Pg - Category: 4	No data available	No data available	No data available
1-tert-Butoxypropan-2-ol - (57018-52-7)	3,771.00, Rat - Category: 5	>2,000.00, Rat - Category: 5	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	—	Not Applicable
Acute toxicity (dermal)	—	Not Applicable
Acute toxicity (inhalation)	—	Not Applicable
Skin corrosion/irritation	3	Causes mild skin irritation. (Note: this GHS classification was not adopted by US OSHA).
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	—	Not Applicable
Skin sensitization	—	Not Applicable
Germ cell mutagenicity	—	Not Applicable
Carcinogenicity	—	Not Applicable
Reproductive toxicity	—	Not Applicable
STOT-single exposure	—	Not Applicable
STOT-repeated exposure	—	Not Applicable
Aspiration hazard	—	Not Applicable

## Section 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

#### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
2-Butoxy-ethanol - (111-76-2)	1,474.00, <i>Oncorhynchus mykiss</i>	1,550.00, <i>Daphnia magna</i>	1,840.00 (72 hr), <i>Pseudokirchneriella subcapitata</i>
1-tert-Butoxypropan-2-ol - (57018-52-7)	Not Available	Not Available	Not Available

### 12.2. Persistence and degradability

This product is fully biodegradable.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.

## Section 13. Disposal considerations

### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

H332 Harmful if inhaled.

End of Document

## *General Purpose Shackle Cleaner*

**12237**

**Conforms to USDA Guidelines - A-1**

### **PRODUCT DESCRIPTION**

- ◆ ChemStation Product 12237 is a highly concentrated, mildly alkaline cleaner formulated specifically for use as a foaming degreaser. It is especially effective in applications such as presoak and pressure washing.
- ◆ Product 12237 can be used to remove a wide range of soils on aluminum, stainless steel, walls, floors, piping and other hard-to-reach areas.
- ◆ Product 12237 can be used in mop buckets, spray bottles and automatic scrubbers.
- ◆ Product 12237 is a balanced blend of biodegradable surfactants and alkaline builders.
- ◆ Product 12237 generates a moderate foam that clings to vertical surfaces and rinses easily.
- ◆ When used as directed, this product is safe and suitable for use in a USDA inspected facility, as a general cleaning agent on all surfaces, or for use with steam or mechanical cleaning devices, in all departments of official establishments operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs.

### **FEATURES**

- ◆ High Reserve Alkalinity ..... Effectively penetrates and removes heavy grease and oil deposits.
- ◆ Liquid..... Convenient to use; easy dispensing and controlling.
- ◆ Hard Water Tolerant..... No filming or spotting, even in hard water.

### **BENEFITS**

### **TYPICAL INSPECTIONS**

- ◆ Appearance ..... Liquid
- ◆ Color ..... Clear, Yellow
- ◆ Odor ..... Mild
- ◆ Solubility ..... Complete
- ◆ pH neat..... 10.3
- ◆ Specific Gravity..... 1.010
- ◆ Foaming..... Moderate
- ◆ Flash Point ..... >200°F (nonflammable)

### **DILUTION**

- ◆ Consult sales representative for recommendation.

### **SAFETY**

- ◆ Keep out of the reach of children. For industrial and commercial use only.
- ◆ Safety Data Sheets available with delivery or upon request.
- ◆ Read label instructions and SDS carefully.



May 5, 2021

Mr. Eric Wuebker  
ChemStation  
2360 W. Dorothy Ln., Ste 112  
Dayton, OH 45439

Dear Eric,

This letter is in reply to your request for compound authorization received on May 5, 2021 for ChemStation Product 12237.

When used according to label directions, this product is safe and suitable for use in a USDA inspected facility, as a general cleaning agent on all surfaces, or for use with steam or mechanical cleaning devices, in all departments of official establishments operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs.

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.

When used according to label directions, this product meets the requirements of 21 CFR117.35 (b) Substances used in Cleaning and Sanitizing; Current Good Manufacturing Practice in Manufacturing, Packing, or Holding Human Food.

Sincerely,

Katie Overton  
Project Coordinator  
ChemStation International