

Issue Date 17-Apr-2014

Revision Date 02-Oct-2025

Version 3

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product Name** BLITZ SM**Other means of identification****Product Code** 052  
**UN/ID No.** UN1824  
**Synonyms** None**Recommended use of the chemical and restrictions on use****Recommended Use** Soft Metal Safe, Alkaline, Non-Chlorinated Foaming Detergent.  
**Uses advised against** No information available**Manufacturer Address**

Anderson Chemical Company, 325 South Davis Avenue, Litchfield, MN 55355 (320-693-2477)

**Emergency telephone number**

Chemtrec 1-800-424-9300

**2. HAZARDS IDENTIFICATION****Classification****OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | Category 1 Sub-category A |
| Serious eye damage/eye irritation | Category 1                |

**Label elements****Emergency Overview****Danger****Hazard statements**

Causes severe skin burns and eye damage

**Appearance** aqueous solution      **Physical state** No information available      **Odor** None**Precautionary Statements - Prevention**Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection**Precautionary Statements - Response**Immediately call a POISON CENTER or doctor/physician  
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 doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician  
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)****Other Information**

- Harmful to aquatic life with long lasting effects
- Unknown Acute Toxicity 14% of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| Chemical Name    | CAS No.   | Weight-% | Trade Secret |
|------------------|-----------|----------|--------------|
| Sodium hydroxide | 1310-73-2 | 5 - 20   |              |
| 2-Butoxyethanol  | 111-76-2  | 1-5      |              |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****First aid measures**

|                     |                                                                                                                                                                                                     |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.                                                                    |
| <b>Skin Contact</b> | Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.                                                   |
| <b>Inhalation</b>   | Remove victim to fresh air. If breathing difficulty occurs or persists, get medical attention.                                                                                                      |
| <b>Ingestion</b>    | Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person. |

**Most important symptoms and effects, both acute and delayed**

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b> | Corrosive. Causes irritation (possibly severe), burns to the eyes. May cause permanent eye damage. Causes irritation (possibly severe), burns to the skin. Causes irritation (possibly severe), burns, pulmonary edema to the respiratory tract. Causes irritation (possibly severe), burns, nausea, vomiting to the gastrointestinal tract. The severity of effects depend on concentration and how soon after exposure the area is washed. |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Note to physicians</b> | Treat symptomatically. |
|---------------------------|------------------------|

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Evacuate nonessential personnel. Ventilate area. Wear appropriate personal protection equipment.

**Environmental precautions** Prevent run-off into ground or surface waters or sewers. See Section 12 for additional ecological information.

**Methods for containment** Completely contain spilled material with dikes or sand bags, etc.

**Methods for cleaning up** Recover as much material as possible into containers for disposal or reuse. Remaining material may be diluted with water and neutralized. Flush spill area with water. Neutralization products, both solid and liquid, must be recovered for disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wear appropriate protective clothing/equipment. Do not breathe mist/vapors. Use with adequate ventilation. Do not ingest.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.

**Incompatible materials** Strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

| Chemical Name                 | ACGIH TLV                    | OSHA PEL                                                           | NIOSH IDLH                                                 |
|-------------------------------|------------------------------|--------------------------------------------------------------------|------------------------------------------------------------|
| Sodium hydroxide<br>1310-73-2 | Ceiling: 2 mg/m <sup>3</sup> | TWA: 2 mg/m <sup>3</sup><br>(vacated) Ceiling: 2 mg/m <sup>3</sup> | IDLH: 10 mg/m <sup>3</sup><br>Ceiling: 2 mg/m <sup>3</sup> |

|                             |             |                                                                                                                                  |                                                          |
|-----------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 2-Butoxyethanol<br>111-76-2 | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup> |
|-----------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|

**Appropriate engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

|                                 |                                                                                                                                                                                                                                                                                                                         |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>      | Wear protective splash proof safety goggles. Additional full face protection is recommended if splashing is a possibility.                                                                                                                                                                                              |
| <b>Skin and body protection</b> | Wear protective gloves and protective clothing.                                                                                                                                                                                                                                                                         |
| <b>Respiratory protection</b>   | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |

**General Hygiene Considerations** Wash contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical state</b> | No information available | <b>Odor</b>           | None                     |
| <b>Appearance</b>     | aqueous solution         | <b>Odor threshold</b> | No information available |
| <b>Color</b>          | Pale amber               |                       |                          |

| <b><u>Property</u></b>               | <b><u>Values</u></b>             | <b><u>Remarks • Method</u></b> |
|--------------------------------------|----------------------------------|--------------------------------|
| <b>pH</b>                            | 12.0-12.6 pH 1% Solution         |                                |
| <b>Melting point/freezing point</b>  | No information available         |                                |
| <b>Boiling point / boiling range</b> | No information available >212 °F |                                |
| <b>Flash point</b>                   | No information available         |                                |
| <b>Evaporation rate</b>              | No information available         |                                |
| <b>Flammability (solid, gas)</b>     | No information available         |                                |
| <b>Flammability Limit in Air</b>     |                                  |                                |
| <b>Upper flammability limit:</b>     | No information available         |                                |
| <b>Lower flammability limit:</b>     | No information available         |                                |
| <b>Vapor pressure</b>                | No information available         |                                |
| <b>Vapor density</b>                 | No information available         |                                |
| <b>Specific Gravity</b>              | 1.140-1.160                      |                                |
| <b>Water solubility</b>              | completely soluble               |                                |
| <b>Solubility in other solvents</b>  | No information available         |                                |
| <b>Partition coefficient</b>         | No information available         |                                |
| <b>Autoignition temperature</b>      | No information available         |                                |
| <b>Decomposition temperature</b>     | No information available         |                                |
| <b>Kinematic viscosity</b>           | No information available         |                                |
| <b>Dynamic viscosity</b>             | No information available         |                                |
| <b>Explosive properties</b>          | No information available         |                                |
| <b>Oxidizing properties</b>          | No information available         |                                |

**Other Information**

|                         |                          |
|-------------------------|--------------------------|
| <b>Softening point</b>  | No information available |
| <b>Molecular weight</b> | No information available |
| <b>VOC Content (%)</b>  | No information available |

Density No information available  
Bulk density No information available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Do not mix with acids.

### Incompatible materials

Strong acids.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** No data available

**Inhalation** No data available.

**Eye contact** No data available.

**Skin Contact** No data available.

**Ingestion** No data available.

| Chemical Name                 | Oral LD50           | Dermal LD50             | Inhalation LC50       |
|-------------------------------|---------------------|-------------------------|-----------------------|
| Sodium hydroxide<br>1310-73-2 | -                   | = 1350 mg/kg ( Rabbit ) | -                     |
| 2-Butoxyethanol<br>111-76-2   | = 470 mg/kg ( Rat ) | = 220 mg/kg ( Rabbit )  | = 450 ppm ( Rat ) 4 h |

### Information on toxicological effects

**Symptoms** No information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** No information available.

| Chemical Name               | ACGIH | IARC    | NTP | OSHA |
|-----------------------------|-------|---------|-----|------|
| 2-Butoxyethanol<br>111-76-2 | A3    | Group 3 | -   | -    |

**Reproductive toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration hazard** No information available.

### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 14% of the mixture consists of ingredient(s) of unknown toxicity  
The following values are calculated based on chapter 3.1 of the GHS document .

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

14% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name                 | Algae/aquatic plants | Fish                                                                                           | Crustacea                                                                          |
|-------------------------------|----------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Sodium hydroxide<br>1310-73-2 | -                    | 45.4: 96 h Oncorhynchus mykiss<br>mg/L LC50 static                                             | -                                                                                  |
| 2-Butoxyethanol<br>111-76-2   | -                    | 1490: 96 h Lepomis macrochirus<br>mg/L LC50 static 2950: 96 h<br>Lepomis macrochirus mg/L LC50 | 1698 - 1940: 24 h Daphnia magna<br>mg/L EC50 1000: 48 h Daphnia<br>magna mg/L EC50 |

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

| Chemical Name               | Partition coefficient |
|-----------------------------|-----------------------|
| 2-Butoxyethanol<br>111-76-2 | 0.81                  |

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Disposal of wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### **Contaminated packaging**

Rinse empty container and offer for recycling.

| Chemical Name                 | California Hazardous Waste Status |
|-------------------------------|-----------------------------------|
| Sodium hydroxide<br>1310-73-2 | Toxic<br>Corrosive                |

## 14. TRANSPORT INFORMATION

### DOT

|                      |                           |
|----------------------|---------------------------|
| UN/ID No.            | Regulated<br>UN1824       |
| Proper shipping name | Sodium Hydroxide Solution |
| Hazard Class         | 8                         |
| Packing Group        | II                        |

## 15. REGULATORY INFORMATION

### International Inventories

|               |                 |
|---------------|-----------------|
| TSCA          | Does not comply |
| DSL/NDSL      | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS          | Does not comply |
| IECSC         | Does not comply |
| KECL          | Does not comply |
| PICCS         | Does not comply |
| AICS          | Does not comply |

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name                      | Percent by weight |
|------------------------------------|-------------------|
| 2-Butoxyethanol; CAS No.: 111-76-2 | 4.0               |

**SARA 311/312 Hazards**

Skin corrosion or irritation

Serious eye damage or irritation

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                 | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium hydroxide<br>1310-73-2 | 1000 lb                     | -                      | -                         | X                          |

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name                 | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|-------------------------------|--------------------------|----------------|-------------------------------------------|
| Sodium hydroxide<br>1310-73-2 | 1000 lb                  | -              | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical Name                 | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Sodium hydroxide<br>1310-73-2 | X          | X             | X            |
| 2-Butoxyethanol<br>111-76-2   | X          | X             | X            |

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION**

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <u>NFPA</u> | Health hazards 3 | Flammability 0 | Instability 1      | Physical and Chemical Properties - |
| <u>HMIS</u> | Health hazards 3 | Flammability 0 | Physical hazards 1 | Personal protection X              |

|               |             |
|---------------|-------------|
| Prepared By   | L. Tipka    |
| Issue Date    | 17-Apr-2014 |
| Revision Date | 02-Oct-2025 |

Revision Note  
11-Sept-2020-Updated Section 15

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**