Lance (AFCO 5255)

Safety Data Sheet

Revision Date: 10/28/2026 Version: 2.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Lance

Product Code: AFCO 5255

Intended Use of the Product

Use of the Substance/Mixture: High foaming, moderately alkaline inhibited general purpose/degreaser, for use on food processing equipment in dairies, bakeries, and in meat and poultry processing plants. For professional use only.

Product Dilution Information: 1 – 4 oz/gallon

Name, Address, and Telephone of the Responsible Party

Company

AFCO
800 Development Avenue
Chambersburg, PA 17201
T: 800-345-1329
www.afcocare.com

Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

PRODUCT as SOLD

Skin Corr. 1C H314
Eye Dam. 1 H318
Skin Sens. 1 H317

PRODUCT at USE DILUTION

Skin Irrit. 3 H316

Label Elements

PRODUCT as SOLD

Hazard Pictograms :



GHS05 GHS07

Signal Word : Danger.

Hazard Statements : H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage

Precautionary Statements : P260 - Do not breathe vapors, mist, spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - 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.

P321 - Specific treatment (see section 4).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

PRODUCT at USE DILUTION

Hazard Pictograms : None.

Signal Word : Warning.
Hazard Statements : H316 - Causes mild skin irritation
Precautionary Statements : P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

Other Hazards

Other Hazards: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Substances: Not applicable, product is a mixture.

Mixture:

PRODUCT as SOLD

Name	Product identifier	% (w/w)
Water	(CAS No) 7732-18-5	70 – 90
2-Butoxyethanol	(CAS No) 111-76-2	1 – 5
Benzenesulfonic acid, dodecyl-, potassium salt	(CAS No) 27177-77-1	1 – 5
Sodium metasilicate	(CAS No) 6834-92-0	1 – 5
Pentasodium triphosphate	(CAS No) 7758-29-4	1 – 5
Nonylphenol ethoxylates	(CAS No) 9016-45-9	0.1 – 1
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts	(CAS No) 68604-71-7	0.1 – 1

PRODUCT at USE DILUTION

Name	Product identifier	% (w/w)
Sodium metasilicate	(CAS No) 6834-92-0	0.1-1.0

The exact percentage (concentration) of the composition and/or ingredients has been withheld as a trade secret, in accordance with 29 CFR § 1910.1200(i).

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

PRODUCT as SOLD

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention.

Skin Contact: Immediately flush skin with plenty of water for several minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Seek medical attention immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

PRODUCT at USE DILUTION

Skin Contact: Immediately flush skin with plenty of water for several minutes.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage. Corrosive to eyes, respiratory system and skin.

Inhalation: May cause slight irritation to respiratory tract.

Skin Contact: Causes severe skin burns.

Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects. Contact may cause immediate severe irritation progressing quickly to chemical burns.

Chronic Symptoms: Not available.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Thermal decomposition generates: Corrosive vapors. When heated to decomposition, emits toxic fumes.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO_2). Toxic fumes are released. Sulfur oxides. Corrosive vapors. Sodium oxides. Phosphorus oxides.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow product to spread into the environment. Do NOT breathe (vapors, mist, spray). Do not get in eyes, on skin, or on clothing.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Cautiously neutralize spilled liquid.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Corrosive vapors are released.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do no eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, incompatible materials.

Incompatible Materials: Strong acids. Strong oxidizers.

Special Rules on Packaging: Keep only in original container.

Specific End Use(s)

High foaming, moderately alkaline inhibited general purpose/degreaser, for use on food processing equipment in dairies, bakeries, and in meat and poultry processing plants. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

2-Butoxyethanol (111-76-2)		
Mexico	OEL TWA (mg/m³)	120 mg/m³
Mexico	OEL TWA (ppm)	26 ppm
Mexico	OEL STEL (mg/m³)	360 mg/m³
Mexico	OEL STEL (ppm)	75 ppm
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	240 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m³)	24 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	700 ppm
Ontario	OEL TWA (ppm)	20 ppm
Québec	VEMP (mg/m³)	97 mg/m³
Québec	VEMP (ppm)	20 ppm

Exposure Controls

PRODUCT as SOLD

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined area. If user operations generate fumes, vapors, gas, or spray use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or regulatory limits.

Personal Protective Equipment: Protective goggles. Protective clothing. Gloves. Face shield.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: Apron. Suitable clothing to prevent skin contact (i.e. pants, long sleeves, boots, etc.).

Respiratory Protection: A respirator is not needed under normal and intended conditions of product use. Whenever worker exposure may exceed established regulatory exposure limits, use a NIOSH-approved respirator.

Other Information: When using, do not eat, drink or smoke.

PRODUCT at USE DILUTION

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed

Personal Protective Equipment: Protective goggles. Gloves.



Materials for Protective Clothing: No special protective equipment required

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or face shield.

Skin and Body Protection: No special protective equipment required.

Respiratory Protection: A respirator is not needed under normal and intended conditions of product use.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Liquid
Particle Characteristics	:	No data available
Appearance	:	Clear yellow-green
Odor	:	Characteristic
Odor Threshold	:	Not available
pH	:	12.0
Relative Evaporation Rate (butylacetate=1)	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	105°C (221°F)
Flash Point	:	None
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not flammable
Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20°C	:	Not available
Sspecific Gravity	:	1.05
Solubility	:	Complete
Partition coefficient: n-octanol/water	:	Not available
Viscosity, Kinematic	:	No data available
Viscosity, Dynamic	:	No data available
Explosive Properties	:	Not expected to present an explosion hazard.
Oxidizing Properties	:	Not expected to present an oxidizing hazard.

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Thermal decomposition generates: Corrosive vapors. When heated to decomposition, emits toxic fumes.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high or low temperatures. Incompatible materials.

Incompatible Materials: Strong acids, strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO_2). Thermal decomposition generates: Corrosive vapors. Sodium oxides. Sulfur oxides. Oxides of phosphorus.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – PRODUCT as SOLD

Acute Toxicity: Not classified.

LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes severe skin burns. (**pH:** 12.0)

Serious Eye Damage/Irritation: Causes serious eye damage. (**pH:** 12.0)

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: May cause slight irritation to respiratory tract.

Symptoms/Injuries After Skin Contact: Causes severe skin burns.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Contact may cause immediate severe irritation progressing quickly to chemical burns.

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data:

Water (7732-18-5)	
LD50 Oral Rat	>90000 mg/kg
Pentasodium triphosphate (7758-29-4)	
LD50 Oral Rat	3100 mg/kg
LD50 Dermal Rabbit	>7940 mg/kg
Sodium metasilicate (6834-92-0)	
LD50 Oral Rat	1153
Nonylphenol ethoxylates (9016-45-9)	
LD50 Oral Rat	2590 mg/kg
LD50 Dermal Rabbit	1780 µl/kg
Benzenesulfonic acid, dodecyl-, potassium salt (27177-77-1)	
ATE US (oral)	500.00 mg/kg body weight
2-Butoxyethanol (111-76-2)	
LD50 Oral Rat	470 mg/kg
LD50 Dermal Rat	220 mg/kg
LC50 Inhalation Rat	450 ppm/4h
ATE US (vapors)	3.84 mg/l/4h
LD50 Oral Rat	470 mg/kg
IARC Group	3
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified.

PRODUCT as SOLD

2-Butoxyethanol (111-76-2)	
LC50 Fish 1	1490 mg/l (Exposure time: 96 h – Species: Lepomis macrochirus [static])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h – Species: Daphnia magna)
LC50 Fish 2	2950 mg/l (Exposure time: 96 h – Species: Lepomis macrochirus)
Sodium metasilicate (6834-92-0)	
LC50 Fish 1	210 mg/l (Exposure time: 96 h – Species: Brachydanio rerio [semi-static])

LC50 Fish 2	210 mg/l (Exposure time: 96 h – Species: Brachydanio rerio)

Persistence and Degradability: Not available.

Bioaccumulative Potential

Lance (AFCO 5255)	
Bioaccumulative Potential	Not established.
2-Butoxyethanol (111-76-2)	
Log Pow	0.81 (at 25°C)

Mobility in Soil Not available.

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium trioxosilicate pentahydrate)
Hazard Class : 8
Identification Number : UN3266
Label Codes : 8



Packing Group : III
ERG Number : 154

14.2 In Accordance with IMDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium trioxosilicate pentahydrate)
Hazard Class : 8
Identification Number : UN3266
Packing Group : III
Label Codes : 8
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-B



14.3 In Accordance with IATA

Proper Shipping Name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium trioxosilicate pentahydrate)
Packing Group : III
Identification Number : UN3266
Hazard Class : 8
Label Codes : 8
ERG Code (IATA) : 8L



14.4 In Accordance with TDG

Proper Shipping Name : CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Disodium trioxosilicate pentahydrate)
Packing Group : III
Hazard Class : 8
Identification Number : UN3266
Label Codes : 8



***Note:** AF5255T (4 x 1 Gal) is allowed to ship as Limited Quantity.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Lance (AFCO 5255)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard.

Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

SARA Section 313 – The following components are subject to reporting levels established by SARA Title III. Section 313		
Component	**CAS Number**	**% in Product**
2-Butoxyethanol	111-76-2	4.5

Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts (68604-71-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

2-Butoxyethanol (111-76-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Sodium metasilicate (6834-92-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

Nonylphenol ethoxylates (9016-45-9)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Benzenesulfonic acid, dodecyl-, potassium salt (27177-77-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Pentasodium triphosphate (7758-29-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

CERCLA Reportable Quantity			
Component	**CAS-No.**	**Component RQ (lbs.)**	**Calculated product RQ (lbs.)**
Pentasodium triphosphate	7758-29-4	5000	*

***: Calculated RQ exceeds reasonably attainable upper limit.*

US State Regulations

2-Butoxyethanol (111-76-2)
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - Skin Designations
U.S. - New York - Occupational Exposure Limits - TWAs
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Pentasodium triphosphate (7758-29-4)
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Sodium metasilicate (6834-92-0)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Nonylphenol ethoxylates (9016-45-9)
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Benzenesulfonic acid, dodecyl-, potassium salt (27177-77-1)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Imidazolium compounds, 1-[2-(2-carboxyethoxy)ethyl]-1(or 3)-(2-carboxyethyl)-4,5-dihydro-2-norcoco alkyl, hydroxides, disodium salts (68604-71-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.
2-Butoxyethanol (111-76-2)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Pentasodium triphosphate (7758-29-4)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Sodium metasilicate (6834-92-0)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Nonylphenol ethoxylates (9016-45-9)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Benzenesulfonic acid, dodecyl-, potassium salt (27177-77-1)
Listed on the Canadian DSL (Domestic Substances List) inventory.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by those regulations.

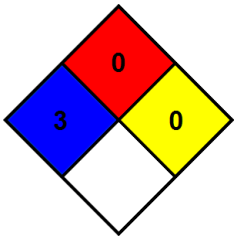
SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 10/28/2026

NFPA Health Hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA Fire Hazard : 0 - Materials that will not burn.

NFPA Reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS IV Rating

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken, and medical treatment is given.

Flammability : 0 - Minimal Hazard.

Physical : 0 - Minimal Hazard.

Preparation by:
AFCO
800 Development Avenue
Chambersburg, PA 17201
T: 800-345-1329

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America SDS GHS Rev. 7 (U.S., Can., Mex.)