

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Identifiers

Product name: #NITROGENOUS FILM-FORMING AMINE
Product Number: 0034
Product Application: Boiler water treatment, filming amine for condensate line corrosion protection.
Emergency telephone number: CHEMTREC (800) 424-9300 Poison Control: 1-800-222-1222

SECTION 2 – HAZARD IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Signal Word None
Physical Hazards Not Classified
Health Hazards Eye Damage / Irritation (Category 2A), Causes serious eye irritation.
Skin Corrosion / Irritation (Category 3), Causes mild skin irritation.
Environmental Hazards Acute Aquatic Toxicity – Category 3 – H402 Harmful to aquatic life.
Pictogram None

GHS label elements and precautionary statements:

Prevention Wash skin thoroughly after handling. Wear eye protection/ face protection. Avoid release to the environment.
Response 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.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Storage None
Disposal Dispose of contents/container in accordance with local/state/federal regulations.

Hazards not otherwise classified (HNOC) or not covered by GHS:

HMIS Rating: Health hazard: 2 Chronic Health Hazard: * Flammability: 0 Physical Hazard 0
NFPA Rating: Health hazard: 2 Fire Hazard: 0 Reactivity Hazard: 0

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS	Wt%
(Hydrogenated tallow) amine	61788-45-2	10-15
Quaternary coco alkylamine ethoxylate	61791-10-4	1-3

This composition consists of a combination of materials of which the ones contributing to classified hazards are reported above. The above chemistries are provided for industrial hygiene and environmental purposes and are not intended to represent product specifications. This information has been compiled from data believed to be reliable.

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed: None known.

SECTION 5 – FIREFIGHTING MEASURES

Flammable Properties: Non-Flammable under normal conditions, but residue may ignite after water is boiled off in surrounding fire conditions. Flash point is >300F.

Explosive Properties: N/A

Suitable Extinguishing media: N/A

Unsuitable extinguishing media: N/A

Special hazards arising from the substance or mixture: Overheating in fire conditions may produce POISONOUS GASES, carbon monoxide, carbon dioxide, oxides of nitrogen.

Advice for firefighters: If material ignites due to surrounding fire conditions, treat as an oil fire. Wear self-contained breathing apparatus for firefighting if necessary.

Further information: If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use appropriate safety equipment. Keep unnecessary and unprotected personnel from entering the area. Keep upwind of spill. Ventilate area of leak or spill.

Environmental precautions:

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Any spill or release to navigable water that causes a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.

Methods and materials for containment and cleaning up:

Contain spilled material if possible. Collect in suitable and properly labeled containers.

Reference to other sections-resources:

For additional information, refer to Section 8, Exposure Controls and Personal Protection, Section 7, Handling, Section 12, Ecological Information and Section 13, Disposal Considerations. If employees are required to clean-up spills, they must be properly trained and equipped. The OSHA Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) may apply.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use:

See Section 1.

SECTION 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

Control parameters

Components with workplace control parameters:

No occupational exposure limits have been established for components or mixture. This does not mean that this substance is not harmful. Safe work practices should always be followed.

Exposure controls:

Appropriate engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Personal protective equipment:

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good practices. Wash and dry hands.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

General: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Control of environmental exposure:

Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky white viscous liquid with paint-like odor

pH: 7.80

Specific Gravity: 0.936 (7.81 Lb/Gal)

Molecular Weight: Mixture

Water Solubility: Complete

Melt/Freeze Point: Not Determined

Boiling Point: >105 C / 220 F

Flammability: Not Flammable

Flash Point: >300 F

Vapor Density: NA

Note: Physical Data is typical values based on material tested, but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions

Chemical stability: Stable under normal conditions of use and storage

Possibility of hazardous reactions: Possible if in contact with incompatible materials

Conditions to avoid: Contact with incompatible materials and temperature extremes.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: Does not decompose under normal conditions..

Other decomposition products: In fire conditions, thermal decomposition can produce carbon monoxide (highly toxic) and carbon dioxide (an asphyxiant at sufficient concentrations).

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Component Toxicity:	No data available
Mixture Toxicity:	No data available
Inhalation:	No data available
Skin corrosion/irritation:	No data available
Serious eye damage/eye irritation:	No data available
Respiratory or skin sensitization:	No data available
Germ cell mutagenicity:	No data available
Carcinogenicity: IARC, ACGIH, NTP, and OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity:	No data available
Specific target organ toxicity - single exposure:	No data available
Specific target organ toxicity - repeated exposure:	No data available
Aspiration hazard:	No data available
Additional Information:	None known.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity: Toxicity to fish LC50	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Mobility in soil:	No data available. Product is water soluble, so would likely move within the aquifer.
Other adverse effects:	No data available

SECTION 13 – DISPOSAL CONSIDERATION

Waste treatment methods:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

SECTION 14 – TRANSPORT INFORMATION (USDOT)

Proper shipping Name:	Proprietary Boiler Water Pre-Treatment Blend
Hazard Class:	Non-Hazardous
UN/ID No	None
Packing Group	None
Reportable Quantity (RQ)	None
Description:	N/A

SECTION 15 – REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): Components of this product are listed on or are exempt from the TSCA Inventory.

DSL: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL).

CERCLA: (Comprehensive Emergency Response Compensation, and Liability Act): Product is not found in “List of Hazardous Substances and Reportable Quantities” (40 CFR 302.4): None

RCRA: (Resource Conservation/Recovery Act): No

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Acute Health Hazard

STATES: PA and NJ: (Hydrogenated tallow) amine (61788-45-2) and Quaternary coco alkylamine ethoxylate (61791-10-4).

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

WHMIS: This product is not a controlled product under WHMIS.

SECTION 16 – OTHER INFORMATION

Fire Protection Association (NFPA) Ratings:



NSF Certification: N/A

This Safety Data Sheet compiled from information provided by the raw chemical product manufacturers.

Full text of H-Statements and P-Statements.

H319 Causes serious eye irritation.

P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

H316 Causes mild skin irritation.

P362+364 Take off contaminated clothing and wash it before reuse.

H402 Harmful to aquatic life.

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Disclaimer: The information presented herein is based on data considered to be accurate as of the date of preparation of this Safety Data Sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice any patented invention without a license. In addition, no responsibility can be assumed by the vendor for any damage or injury resulting from abnormal use, from failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.