

SAFETY DATA SHEET

1) IDENTIFICATION:

Product Identification: Super Aluma Shine

Product Code: 5633

Supplied By:

North Woods
4415 S. Taylor Dr.
Sheboygan, WI 53081
Northwoodstm.com

Company: 1-800-242-7694

24 HR Emergency:
INFOTRAC
1-352-323-3500
1-800-535-5053

2) HAZARD IDENTIFICATION:

This material has been defined as a hazardous chemical under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

HAZARD SUMMARY:



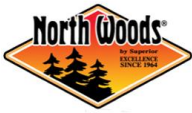
DANGER

GHS Ratings:

Inhalation Toxicity Acute Tox.	3
Skin corrosive	1A
Eye corrosive	1

GHS Hazards:

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



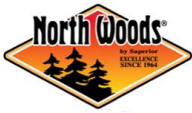
GHS Precautions

- P102 Keep out of reach of children.
- P201 Obtain special instructions before use.
- P260 Do not breathe dust/fume/gas/mist/vapor's/spray.
- P264 Wash hands, arms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P311 Call a POISON CENTER or doctor/physician.
- P363 Wash contaminated clothing before reuse.
- P501 Dispose of contents/container according to state, local and Federal regulations.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- 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 victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse continuously with water for 15-20 minutes. Remove contact lenses if present and easy to do – continue rinsing.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up
- P501 Dispose of contents/container according to local, state and Federal regulations.

3) COMPOSITION/INFORMATION ON INGREDIENTS:

Chemical Name	CAS Number	Percentage
Water	7732-18-5	70.00% to 80.00%
Sulfuric acid	7664-93-9	10.00% to 20.00%
Hydrofluoric Acid	7664-39-3	5.00% to 10.00%
Nonylphenol, ethoxylated	127087-87-0	1.00% to 5.00%

All concentrations are in percent by weight



4) FIRST-AID MEASURES:

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

IF INHALED:

Immediately move person to fresh air and keep comfortable for breathing. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth to mouth resuscitation.

Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

IF IN EYES:

Immediately rinse continuously with copious amounts of tepid water for a minimum of 15-20 minutes. Eyelids should be held apart and away from eyeball for thorough rinsing. If contact lenses are present, rinse eyes 5 minutes then remove if easy to do. Seek medical attention if irritation is present and persists.

IF ON SKIN OR HAIR:

Immediately take off contaminated clothing. Flush skin with copious amounts of tepid water for at least 20-30 minutes. For severe exposure or if irritation persists, seek medical attention.

For skin contact, if calcium gluconate gel is available, rinse 5 minutes, then apply gel. Otherwise, continue rinsing until medical treatment is available.

IF INGESTED:

Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Seek medical attention immediately.

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

5) FIRE FIGHTING MEASURES:

FIRE POTENTIAL:

Use water spray, alcohol resistant foam, dry chemical, or carbon dioxide.

EXTINGUISHING MEDIA:

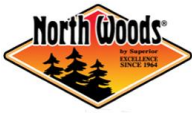
Does not burn. Use extinguishing agents compatible with acid and appropriate for the burning material.

HAZARDOUS COMBUSTION PRODUCTS

Gives off hydrogen by reaction with metals.

ADVICE FOR FIREFIGHTERS:

Wear self-contained breathing apparatus for firefighting if necessary. Extinguish fire using agents suitable for nearby fires. Use water spray only to keep fire exposed containers cool. No water. In case of fire in the surroundings: powder, foam, carbon dioxide.



6) ACCIDENTAL RELEASE MEASURES:

Keep unauthorized personnel away. Approach release from upwind. Stop or control the leak, if this can be done without undue risk. Do not get water inside container. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas. Prevent entry into waterways, sewers, basements or confined areas

SPILLS:

For small spills, cover the contaminated area with sodium bicarbonate or a mixture of soda ash/slaked lime (50/50) and mix. Shovel the neutralized residues into containers for disposal. If neutralizing agent is not available, cover the area with sand or earth to absorb the liquid and shovel into containers for disposal.

7) HANDLING AND STORAGE:

HANDLING PRECAUTIONS:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. Use with adequate ventilation. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes.

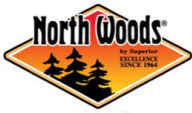
See section 8 for recommendations on the use of personal protective equipment.

STORAGE:

Store in cool, dry, well-ventilated location. Separate from combustibles, and other reactive materials. Separate from carbides, chlorates, fulminates, nitrates, and powdered metals. 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.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION:

Chemical Name/ CAS #	OSHA Exposure Limits	ACIGH Exposure Limits	Other Exposure Limits
7664-93-9	1 mg/m ³ TWA	0.2 mg/m ³ TWA (thoracic fraction)	NIOSH: 1 mg/m ³ TWA
7664-39-3	3 ppm TWA (as F)	2 ppm Ceiling (as F) 0.5 ppm TWA (as F)	NIOSH: TWA 3 ppm 2.5 mg/m ³ 6 ppm Ceiling (15 minutes) 5 mg/m ³ (Ceiling)
127087-87-0	No data available	No data available	No data available



ENGINEERING CONTROLS:

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider: Adequate ventilation should be provided so that exposure limits are not exceeded. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Eye wash facilities and emergency shower must be available when handling this product.

PROTECTIVE EQUIPMENT:

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

RESPIRATORY PROTECTION:

When conditions require respiratory protection (either air-purifying or supplied air), select suitable NIOSH approved equipment using current regulatory guidance and/or ANSI/AIHA Z88.2. recommendations. Full-face respirator with appropriate canisters is recommended.

EYE/FACE PROTECTION:

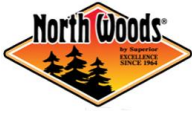
Wear appropriate safety glasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

SKIN PROTECTION:

Wear chemical resistant clothing and gloves, (rubber, neoprene, nitrile) and boots

9) PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	
Physical state	Clear liquid
Color	Clear colorless
Odor	No data available
Odor threshold	No data available
pH	N/A
Melting point/freezing point	No data available
Boiling point range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	Not flammable
Upper/lower flammability or explosive limits	No data available
Flammability limit – lower	No data available
Flammability limit – upper	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific Gravity	Approximately 1.07
Solubility (water)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available



10) STABILITY/REACTIVITY:

CHEMICAL STABILITY:

Stable under recommended storage conditions.

MATERIALS TO AVOID:

Bases, halides, organic materials, carbides, fulminates, nitrates, cyanides, chlorates, alkali halides, zinc salts, permanganates, glass.

HAZARDOUS POLMERIZATION

Hazardous polymerization will not occur.

DECOMPOSITION:

When heated, it emits highly toxic fumes.

11) TOXICOLOGICAL INFORMATION:

Component	Test	Results	Species
7664-93-9	LC50 Inhalation	510 mg/m ³ 2 h	Rat
	LD50 Oral	2140 mg/kg	Rat
7664-39-3	LC50 Inhalation	0.79 mg/L 1 h (vapor)	Rat
	LD50 Dermal	500 mg/kg	mouse
127087-87-0	LD50 Oral	1310 mg/kg	Rat

7664-39-3 ACGIH - Threshold Limit Values - Skin Notations

Skin - potential significant contribution to overall exposure by the cutaneous route.

ACGIH - Threshold Limit Values - TLV Basis - Critical Effects:

Eye, lower respiratory tract, skin and upper respiratory tract irritation; fluorosis.

7664-93-9

ACGIH - Threshold Limit Values - TLV Basis - Critical Effects

pulmonary function

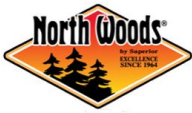
CARCINOGENICITY

7664-93-9

A2 - Suspected Human Carcinogen (contained in strong inorganic acid mists)

12) ECOLOGICAL INFORMATION:

No data available



13) DISPOSAL CONSIDERATIONS:

Dispose of according to local, state and Federal regulations. D002 Corrosive

14) TRANSPORTATION INFORMATION :

UN Number : UN2922
Proper Shipping Name: Corrosive Liquid, Toxic NOS (Sulfuric Acid, Hydrofluoric Acid)
Class: 8 (6.1)
Packing Group: II
ERG: 154

15) REGULATORY INFORMATION:

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CAS #	302 (EHS) TPQ	304 EHS RQ	CERCLA RQ	SECTION 313	RCRA CODE	CAA 112 (r) TQ
7664-93-9	1000	1000	1000			
7664-39-3	100	100	100	X	U134	
127087-87-0						

Inventory - United States - Section 8(b) Inventory (TSCA) Listed

7664-93-9
 7664-39-3

U.S. - TSCA (Toxic Substances Control Act) - Section 8(a) - PAIR - Reporting List
 127087-87-0

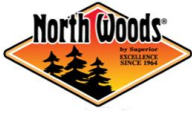
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
 7664-39-3 100 lb. final RQ; 45.4 kg final RQ
 7664-93-9 1000 lb. final RQ; 454 kg final RQ

U.S. - CWA (Clean Water Act) - Reportable Quantities of Designated Hazardous Substances
 7664-93-9 1000 lb. RQ 7664-39-3 100 lbs RQ

US STATE REGULATIONS:

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances
 7664-93-9

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
 7664-93-9 7664-39-3



U.S. - New Jersey - Right to Know Hazardous Substance List
7664-93-9 7664-39-3

US Massachusetts RTK – Substance List
7664-93-9 7664-39-3

16) OTHER:

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