

SAFETY DATA SHEET



Version 1

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product Name: Novel Wash Ammonia
Synonyms: Novel Wash Sudsy Ammonia; Novel Wash Clear Ammonia; Novel Wash Lemon Ammonia
Formula: NH_3
Molecular Weight: 17

Company Name:
Novel Wash Company 11685 Manchester Road St. Louis, MO 63131 (314) 471-0555

Emergency Telephone:
NATIONAL EMERGENCY RESPONSE CENTER: 1-800-424-8802
Novel Wash Company (314) 471 - 0555
CHEMTREC (US): 1-800-424-9300
Call CHEMTREC only in the event of chemical emergencies involving a SPILL, LEAK, FIRE, EXPOSURE, or ACCIDENT involving chemicals.

2. Hazards Identification

GHS - Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1A
Germ Cell Mutagenicity:	Category 2
Specific target organ toxicity (single exposure)	Category 1
Chronic aquatic toxicity	Category 3



Signal Word:

Danger

Hazard Statements:

- Fatal if inhaled
- Causes severe skin burns and eye damage
- May cause allergy or asthma symptoms or breathing difficulties if inhaled
- Suspected of causing genetic defects
- Causes damage to organs
- Harmful to aquatic life with long lasting effects

Physical Hazards

- None

Precautionary Statements:

- P271 - Use only outdoors or in a well-ventilated area
- P284 - Wear respiratory protection
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- 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
- P363 - Wash contaminated clothing before reuse
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P280 - Wear protective gloves/protective clothing/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
- P310 - Immediately call a POISON CENTER or doctor/physician
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P285 - In case of inadequate ventilation wear respiratory protection
- P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
- P201 - Obtain special instructions before use
- P202 - Do not handle until all safety precautions have been read and understood
- P281 - Use personal protective equipment as required
- P308 + P313 - IF exposed or concerned: Get medical advice/attention
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P307 + P311 - IF exposed: Call a POISON CENTER or doctor/physician
- P405 - Store locked up
- P273 - Avoid release to the environment
- P501 - Dispose of contents/ container to an approved waste disposal plant

3. Composition / Information on Ingredients

Hazardous

Chemical Name	CAS No	Weight-%	EC No
Ammoniac, anhydre	7664-41-7	2	231-635-3

Non-Hazardous

Chemical Name	CAS No	Weight-%	EC No
Water	7732-18-5	Balance	231-791-2
Fragrance	-	< 0.18	-

4. First Aid Measures

- General Advice:** Immediate medical attention is required.
- Eye Contact:** Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
- Skin Contact:** Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation:	Move to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion:	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
Note to Physicians:	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.
Self-protection of the First Aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

5. Fire-fighting Measures

Flammable Properties:

May cause fire

Explosive Properties:

No information available

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:

The product causes burns of eyes, skin and mucous membranes; Thermal decomposition can lead to release of irritating and toxic gases and vapors; In the event of fire and/or explosion do not breathe fumes

Protective Equipment and Precautions for Firefighters:

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode

6. Accidental Release Measures

Personal Precautions:

Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental Precautions:

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods for Cleaning Up:

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

Other Information:

Not applicable.

7. Handling and Storage

Advice on Safe Handling:

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials: Strong acids and bases; Oxidizing agents

8. Exposure Controls / Personal Protection

Chemical Name		ACGIH TLV		OSHA PEL		Ontario TWA	
Ammoniac, anhydre		STEL: 35 ppm TWA: 25 ppm		27 mg/m ³ STEL 35 ppm STEL 35 mg/m ³ TWA 50 ppm TWA		TWA: 25 ppm STEL: 35 ppm	
Chemical Name	European Union	China	Japan	Korea	Australia	Taiwan	
Ammoniac, anhydre	TWA 20 ppm TWA 14 mg/m ³ STEL 50 ppm STEL 36 mg/m ³	TWA: 20 mg/m ³ STEL: 30 mg/m ³	TWA: 25 ppm TWA: 17 mg/m ³	STEL: 35 ppm STEL: 27 mg/m ³ TWA: 25 ppm TWA: 18 mg/m ³	25 ppm 17 mg/m ³ 35 ppm STEL 24 mg/m ³ STEL	TWA: 50 ppm TWA: 35 mg/m ³	

Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

Engineering Controls: Ensure adequate ventilation, especially in confined areas

Personal protective equipment (PPE)

Eye/Face Protection: Tight sealing safety goggles. Face protection shield.

Body Protection: Gloves made of plastic or rubber. Rubber boots. Suitable protective clothing. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

General Hygiene Considerations:

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Clear to slightly hazy
Color: Clear Cloudy or Colored
Odor: Ammonia
Odor Threshold: No information available

Property	Values	Remarks • Method
pH:	11.8	
"Salt Out" Point (°F):		No information available
Melting Point/Freezing Point:	-2 °C / 28 °F	
Boiling Point/Boiling Range:	100 °C / 212 °F	
Flash Point:		No information available
Evaporation Rate (BuAc=1):	> 1	
Flammability (solid, gas):		No information available
Flammability Limits in Air:		No information available
Upper Flammability Limit:	27%	
Lower Flammability Limit:	16%	
Vapor Pressure (mm Hg) :		No information available
Vapor density (Air =1)		No information available
Specific Gravity (H2O=1):	0.989	
Specific Gravity (2nd value):		
Water Solubility:	100% soluble in water	
Solubility(ies):		No information available

Partition Coefficient (n-octanol/water)	No information available
Autoignition Temperature:	No information available
Decomposition Temperature:	No information available
Kinematic Viscosity:	No information available
Dynamic Viscosity:	No information available
Oxidizing Properties:	No information available
Explosive Properties:	No information available

9.2. Other information

Softening Point:	No information available
Molecular Weight:	17
VOC Content(%):	No information available
Density:	No information available
Bulk Density:	No information available

10. Stability and Reactivity

Stability:	Stable under normal conditions of use and storage
Conditions to Avoid:	Exposure to air or moisture over prolonged periods
Incompatible Materials:	Strong acids and bases; Oxidizing agents
Hazardous Decomposition Products:	Nitrogen oxides (NO _x); Ammonia
Possibility of Hazardous Reactions:	None under normal processing

11. Toxicological Information**Product Information**

Acute Toxicity: 0.18% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD ₅₀ :	Dermal LD ₅₀ :	LC ₅₀ (Lethal Concentration):
Ammoniac, anhydre	350 mg/kg (Rat)		2000 ppm (Rat) 4 h 5.1 mg/L (Rat) 1 h
Water	90 mL/kg (Rat)		

Chronic Toxicity:

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Target Organ Effects: Eyes, Respiratory system, Skin

12. Ecological Information**Ecotoxicity**

0.18% of the mixture consists of components(s) of unknown hazards to the aquatic environment

37339 Novel Wash Ammonia

Harmful to aquatic life with long lasting effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Ammoniac, anhydre		0.44: 96 h <i>Cyprinus carpio</i> mg/L LC50 0.26 - 4.6: 96 h <i>Lepomis macrochirus</i> mg/L LC50 0.73 - 2.35: 96 h <i>Pimephales promelas</i> mg/L LC50 5.9: 96 h <i>Pimephales promelas</i> mg/L LC50 static 1.5: 96 h <i>Poecilia reticulata</i> mg/L LC50 1.19: 96 h <i>Poecilia reticulata</i> mg/L LC50 static 1.17: 96 h <i>Lepomis macrochirus</i> mg/L LC50 flow-through	25.4: 48 h <i>Daphnia magna</i> mg/L LC50

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Mobility: No information available.

Chemical Name	Partition Coefficient:
Ammoniac, anhydre	-1.14

13. Disposal Considerations

Waste from Residues/Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated Packaging: Do not reuse container.

14. Transport Information

IATA

DOT

Description Not DOT Regulated

TDG

MEX

15. Regulatory Information

International Inventories

All of the components in the product are on the following inventory lists: No information available, This product contains a substance not listed on international inventories - it is for research and development use only.

AICS -
TSCA -
DSL/NDL -
EINECS/ELINCS -
ENCS -
IECSC -
KECL -
PICCS -

37339 Novel Wash Ammonia

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Ammoniac, anhydre	Listed	Listed	Listed	-	Listed	-	(1)-391 (1)-314	Listed	KE-01625	Present
Water	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present

Inventory Legend

AICS - Australian Inventory of Chemical Substances

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

RESTRICTIONS - REACH TITLE VII No information available

US Federal Regulations

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	CERCLA Hazardous Substances and the Reportable Quantities	SARA Extremely Hazardous Substances EPCRA RQ	SARA Extremely Hazardous Substances TPQ
Ammoniac, anhydre	100 lb 45.4 kg	100 lb EPCRA RQ	500 lb TPQ

SARA 313

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

Chemical Name	SARA 313 - Threshold Values %
Ammoniac, anhydre	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive hazard	No

U.S. State Right-to-Know Regulations

California Proposition 65:

This product does not contain any Proposition 65 chemicals

16. Other Information

National Fire Protection Association (NFPA) Ratings



Prepared By: Adam Peterson, Rob Kelley, Andrew Morabu and Todd Bain from the HSE department.

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Revision Note: MSDS converted to GHS SDS Format.

Disclaimer:

Novel Wash Company ("Novel Wash") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Novel Wash makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Novel Wash's control, and, therefore, users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes, and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.

End of Safety Data Sheet