# SAFETY DATA SHEET

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### 1. IDENTIFICATION

Product identifier

Product Name Ammonia TNTPlus™ HR (2-47 mg/L)

Other means of identification

Product Code(s)

**TNT832** 

Safety data sheet number M03403

Component of Kits or Sets

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory reagent.

Uses advised against None. Restrictions on use None.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Hach Company P.O.Box 389 Loveland, CO 80539 USA (970) 669-3050

Emergency telephone number

(303) 623-5716 - 24 Hour Service (515)232-2533 - 8am - 4pm CST

**Product Information** 

Chemical NameNot applicableFormulaNot applicableCAS NoNot applicableAlternate CAS NumberNot applicableNIOSH (RTECS) NumberNone reported

# 2. HAZARDS IDENTIFICATION

### Classification

### **Regulatory Status**

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

### Hazards not otherwise classified (HNOC)

Not applicable

Label elements

**Hazard statements** 

### Other Information

Not applicable

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# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Substance**

Percent ranges are used where confidential product information is applicable.

### 4. FIRST AID MEASURES

#### Description of first aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If symptoms persist, call a physician.

Skin contact IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, call a physician.

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms

persist, call a physician.

**Ingestion** IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

**Self-protection of the first aider**Use personal protective equipment as required. Ensure that medical personnel are aware

of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

**Note to physicians**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 Caution: Use of water spray when fighting fire may be inefficient.

### Flammable properties

Substance does not burn.

#### Specific hazards arising from the chemical

No information available.

Hazardous combustion products

No information available.

### 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

**U.S. Notice**Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance.

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Outside of the US, only persons properly qualified according to state or local regulations

should respond to a spill involving chemicals.

EC Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

WHMIS Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate

affected area. Use personal protective equipment as required.

Environmental precautions

**Environmental precautions** Avoid release to the environment. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take necessary precautions in observance of pertinent physical hazards. Take up

mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local, state and federal regulations or laws.

Emergency Response Guide Number Not applicable

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly

labeled containers.

Flammability class Not applicable

**Incompatible materials** Strong oxidizing agents. Strong acids. Strong bases.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Legend** See section 16 for terms and abbreviations

Appropriate engineering controls

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Engineering Controls Showers

Eyewash stations Ventilation systems

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Take off all contaminated clothing and wash it before reuse. Wash hands thoroughly after handling. Regular cleaning of equipment, work area

and clothing is recommended.

#### **Environmental exposure controls**

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state No information available

Gas Under Pressure Not classified according to GHS criteria

Appearance No information available Color No information available

Odor No information available Odor threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Molecular weightNo data availablepHNo data available

Melting point/freezing point No data available

Boiling point / boiling range No data available

Evaporation rate No data available

Vapor pressure No data available

Vapor density (air = 1) No data available

Specific gravity (water = 1 / air = 1)

No data available

Partition Coefficient (n-octanol/water) No data available

**Soil Organic Carbon-Water Partition** 

Coefficient

No data available

Autoignition temperature No data available

**Decomposition temperature**No data available

Dynamic viscosity No data available

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Kinematic viscosity No data available

### Solubility(ies)

### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature	
No information available	No data available	No information available	

### Solubility in other solvents

	Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
Ī	None reported	No information available	No data available	No information available

#### Other Information

Metal Corrosivity

Not classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate No data available

Aluminum Corrosion Rate No data available

Bulk density No data available

Explosive properties Not classified according to GHS criteria.

Explosion data No data available

Upper explosion limit No data available

Lower explosion limit No data available

Flammable properties Not classified as flammable according to GHS criteria.

Flammability Limit in Air

**Upper flammability limit:**No data available

Lower flammability limit: No data available

Flash point No data available

Oxidizing properties Not classified according to GHS criteria.

Reactivity propeties Not classified as self-reactive, pyrophoric, self-heating or emitting

flammable gases in contact with water according to GHS criteria.

# 10. STABILITY AND REACTIVITY

#### Reactivity propeties

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

#### **Chemical stability**

Stable under recommended storage conditions.

#### Special dangers of the product

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None reported

### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

#### Conditions to avoid

Extremes of temperature and direct sunlight. Incompatible materials.

### **Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

#### **Hazardous Decomposition Products**

None known based on information supplied.

### **Explosive properties**

Not classified according to GHS criteria.

Upper explosion limit No data available

Lower explosion limit No data available

### **Autoignition temperature**

No data available

# Sensitivity to Static Discharge

None reported

### **Sensitivity to Mechanical Impact**

None reported

# 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

Product Information	Product does not present an acute toxicity hazard based on	
	known or supplied information.	
Inhalation	No known effect based on information supplied.	
Eye contact	No known effect based on information supplied.	
Skin contact	No known effect based on information supplied.	
Ingestion	No known effect based on information supplied.	
Aggravated Medical Conditions	None known.	
Toxicologically synergistic products	None known.	
Toxicokinetics, metabolism and distribution	No information available.	

#### **Product Acute Toxicity Data**

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

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Inhalation (Gas) Exposure Route No data available

**Ingredient Acute Toxicity Data** 

Oral Exposure Route

No data available

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

No data available

No data available

No data available

Inhalation (Gas) Exposure Route No data available

**Product Skin Corrosion/Irritation Data** 

No data available.

**Ingredient Skin Corrosion/Irritation Data** 

No data available

**Product Serious Eye Damage/Eye Irritation Data** 

No data available.

**Ingredient Eye Damage/Eye Irritation Data** 

No data available

**Sensitization Information** 

**Product Sensitization Data** 

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

Ingredient Sensitization Data

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

**Chronic Toxicity Information** 

**Product Repeat Dose Toxicity Data** 

Oral Exposure Route No data available.

**Dermal Exposure Route**No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

Ingredient Repeat Dose Toxicity Data

Oral Exposure Route No data available

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Dermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data available

Inhalation (Gas) Exposure Route No data available

### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	X - Present
Labor)	

Product Carcinogenicity Data

No data available

No data available

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Ingredient Carcinogenicity Data

Oral Exposure Route

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Product Germ Cell Mutagenicity invitro Data

No data available.

<u>Ingredient Germ Cell Mutagenicity invitro Data</u>

No data available

Oral Exposure Route

Dermal Exposure Route

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

Inhalation (Vapor) Exposure Route

No data available

Inhalation (Gas) Exposure Route

No data available

Ingredient Germ Cell Mutagenicity invivo Data

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Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

**Ingredient Reproductive Toxicity Data** 

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Based on the classification principles, not classified as hazardous

to the environment.

**Product Ecological Data** 

**Aquatic toxicity** 

Fish No data available

Crustacea No data available

Algae No data available

**Terrestrial toxicity** 

Soil No data available

Vertebrates No data available

Invertebrates No data available

**Ingredient Ecological Data** 

**Aquatic toxicity** 

Fish No data available

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Crustacea No data available

Algae No data available

**Terrestrial toxicity** 

Soil No data available

Vertebrates No data available

Invertebrates No data available

**Other Information** 

Persistence and degradability

None known.

**Product Biodegradability Data** 

No data available.

**Ingredient Biodegradability Data** 

No data available

Chemical Name	Test method	Biodegradation	Exposure time	Results
Sodium salicylate (<0.01) CAS#: 54-21-7	None reported	50%	140 days	Not readily biodegradable
D-Mannitol (<0.01) CAS#: 69-65-8	OECD Test No. 303: Simulation Test - Aerobic Sewage Treatment A: Activated Sludge Units; B: Biofilms	None reported	None reported	Readily biodegradable
Dichloroisocyanuric acid, sodium salt (<0.01) CAS#: 2893-78-9	None reported	None reported	None reported	Readily biodegradable

# **Bioaccumulation**

None known.

Product Bioaccumulation Data

No data available.

Ingredient Bioaccumulation Data

No data available

**Additional information** 

<u>Product Information</u> No data available

Partition Coefficient (n-octanol/water)

No data available

Ingredient Information No data available

**Mobility** 

None known.

Product Information No data available

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**Soil Organic Carbon-Water Partition Coefficient** 

No data available

**Ingredient Information** 

No data available

**Additional information** 

Water solubility

**Product Information** 

No information available

Water solubility classification	Water solubility	Water Solubility Temperature
No information available	No data available	No information available

**Ingredient Information** 

No information available

### Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and **Disposal of wastes** 

regulations.

Contaminated packaging

Working in a well-ventilated area,. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state or federal regulations. Dispose of empty container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P. A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national and local laws and regulations.

# 14. TRANSPORT INFORMATION

DOT Not regulated TDG Not regulated Not regulated IATA Not regulated **IMDG** 

### **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

### 15. REGULATORY INFORMATION

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National Inventories

TSCA Complies DSL/NDSL Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

### **International Inventories**

**EINECS/ELINCS** Complies **ENCS** Does not comply **IECSC** Complies Complies **KECL** Complies **PICCS** Complies **TCSI AICS** Complies Does not comply **NZIoC** 

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

TCSI - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **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)

### **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

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

### NFPA and HMIS Classifications

NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical
				Properties -
HMIS	Health hazards - 0	Flammability - 0	Physical hazards - 0	Personal protection - X
		-		- See section 8 for more
				information

### Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

### Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

Issue Date 18-Apr-2016

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Revision Note None

### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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**End of Safety Data Sheet**