



Safety Data Sheet

Quantum All Water

1. IDENTIFICATION

Product Identifier: Quantum All Water
Canadian TDG: UN1823
Synonyms: Non known
Chemical Family: Not known
Recommended Use: Auto warewash detergent
Restrictions on Use: None

Manufacturer / Supplier:

Genesis Chemicals
602 – 13th St SE
Medicine Hat, AB
T1A 1X3

Prepared by: The Environmental, Health and Safety Department of Genesis Chemicals Ltd

Preparation Date of SDS: February 9, 2017

Telephone number of preparer: 403-528-4220

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2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion – Category 1B; Serious Eye Damage – Category 1; Mixtures Corrosive to Metals – Category 1; Acute Toxicity, Oral – Category 4



Signal Word: Danger

Hazard Statement(s):

Causes severe skin burns and eye damage.
Causes serious eye irritation.
May be corrosive to metals.
Harmful if swallowed.

Precautionary Statement(s):

General:

Keep out of reach of children.
Read label before use.

Prevention:

Do not breathe dust/ fumes/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep only in original container.
Absorb spillage to prevent material damage.
Do not eat drink or smoke when using this product.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a poison center or doctor/physician if you feel unwell.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Call a poison center or doctor/physician if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediately call a poison center or doctor/physician.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Remove/Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.

Storage:

Store in a closed container.
Store in corrosive resistant container with a resistant inner liner.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration %
Sodium Hydroxide	1310-73-2	5-20
Trisodium Nitrilotriacetate	5064-31-3	<30

Notes

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First-aid Measures****Inhalation**

Move to fresh air. Keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor if you feel

unwell or are concerned.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation or a rash occurs, get medical advice/attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Ingestion

Immediately call a Poison Centre or doctor. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: at high concentrations symptoms may include headache, nausea, dizziness, drowsiness and confusion.

If on skin: causes severe skin damage. Symptoms include burns, blisters, redness, rash, itching and swelling.

If in eyes: causes severe eye damage. Symptoms include sore, red eyes, tearing, and blindness.

If swallowed: may be drawn into the lungs if swallowed or vomited, causing severe lung damage. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

Immediate Medical Attention and Special Treatment

Special Instructions

Not applicable.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, carbon dioxide, dry chemical powder or appropriate foam.

Unsuitable Extinguishing Media

Water jet.

Specific Hazards Arising from the Chemical

Not flammable or combustible.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Approach fire from upwind to avoid hazardous vapours or gases.

Stop leak before attempting to put out the fire. Product could form an explosive mixture and reignite. Keep containers cool to avoid bursting.

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours, flammable or explosive atmosphere.

Dike and recover contaminated water for appropriate disposal.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn. If there is potential for skin contact with concentrated cleaner: chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Concentrated product: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Distant ignition and flashback are possible.

Increase ventilation to area or move leaking container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Before entry, especially into confined areas, check atmosphere with an appropriate monitor. Monitor area for flammable or explosive atmosphere.

Product (diluted as directed): use the personal protective equipment recommended in Section 8 of this safety data sheet. No other special precautions are necessary.

Environmental Precautions

Concentrated product: do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Concentrated product: small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Do NOT use combustible materials such as sawdust. Place used absorbent into suitable, covered, labelled containers for disposal.

Concentrated product: large spills or leaks: cover the spill surface with the appropriate type of foam to reduce the release of vapour. Dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment. Dike and recover contaminated water for appropriate disposal. Store recovered product in suitable containers that are: tightly-covered.

Product (diluted as directed): no special clean-up methods are necessary.

Other Information

Report spills to local health, safety and environmental authorities, as required.

7. HANDLING AND STORAGE

Precautions for Safe Handling

When handling diluted product: no special handling precautions are necessary.

When handling concentrated product: only use where there is adequate ventilation. Avoid generating vapours or mists. Keep containers tightly closed when not in use or empty. Wear personal protective equipment to avoid direct contact with this chemical.

Do NOT smoke in work areas. Wash hands thoroughly after handling this material. Immediately remove contaminated clothing using the method that minimizes exposure. Keep contaminated clothing under water, in closed containers. Launder clothes before re-wearing. Inform laundry personnel of product hazard(s). Do not take contaminated clothing home.

Conditions for Safe Storage

Concentrated product: store in an area that is: temperature-controlled, well-ventilated, out of direct sunlight and away from heat and ignition sources, an approved, fire-resistant area, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in a closed container.

Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Keep amount in storage to a minimum. Avoid bulk storage indoors.

Comply with all applicable health and safety regulations, fire and building codes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ingredients	ACGIH® TLV®	OSHA PEL	IDLH
Sodium Hydroxide	2 mg/m ₃ Ceiling	2 mg/m ₃ Ceiling	10 mg/m ₃
Trisodium Nitrilotriacetate	Not available	Not available	Not available

Consult local authorities for provincial or state exposure limits.

Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

When handling large quantities of concentrated product: use a local exhaust ventilation and enclosure, if necessary, to control amount in the air. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Individual Protection Measures

Eye/Face Protection

Do not get in eyes. Wear chemical safety goggles.

Skin Protection

Prevent all skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: Barrier® (PE/PA/PE), Silver Shield/4H® (PE/EVAL/PE), Tychem® Responder, Tychem® TK.

The following materials should NOT be used: neoprene rubber, nitrile rubber, polyvinyl alcohol.

Respiratory Protection

Not normally required if product is used as directed.

Concentrated product: wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an organic vapour Cartridge, or, wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

9. CHEMICAL AND PHYSICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Yellow-orange liquid.
Odour	Odorless
Odour Threshold	Not available
pH	>12.0
Melting Point/Freezing Point	-16°C / 4°F
Initial Boiling Point/Range	Not available

Flash Point	None
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid).
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Specific Gravity	1.20 – 1.30
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Other Information	
Physical State:	Liquid

10. STABILITY AND REACTIVITY

Reactivity

Not reactive. Not sensitive to mechanical impact.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

excessive heat, open flames and all ignition sources. Incompatible materials.

Incompatible Materials

Strong acids. Aluminum. Tin. Zinc. Chlorinated hydrocarbons. Acetone.

Hazardous Decomposition Products

Potassium oxide.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Chemical Name	LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Sodium Hydroxide	Not available	Rabbit = 500 mg/kg	Not available
Trisodium Nitrilotriacetate	Rat > 5 mg/L 4 h	Rat = 920 mg/kg	Not available

Acute Toxicity Estimates (ARE)

Acute Oral Toxicity: Acute toxicity estimate > 5000 mg/kg
Acute Inhalation Toxicity: No data available
Acute Dermal Toxicity: Acute toxicity estimate > 5000 mg/kg

Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

No data available

STOT (Specific Target Organ Toxicity) - Single Exposure**Inhalation**

No data available

Aspiration Hazard

No data available

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No data available

Respiratory and/or Skin Sensitization

No data available

Carcinogenicity

Chemical Name	IARC	ACGIH	NTP	OSHA
Sodium Hydroxide	Not Listed	Not Listed	Not Listed	Not Listed
Trisodium Nitrotriacetate	Group 2B	Not Listed	Not Listed	Not Listed

Reproductive Toxicity**Development of Offspring**

No data available

Sexual Function and Fertility

No data available

Germ Cell Mutagenicity

Not mutagenic.

Interactive Effects

No information was located.

Additional Information:

No information was located.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Sodium Hydroxide	LC50 (Rainbow Trout) 1149 mg/l LC50 (Chinook Salmon) 152 mg/l	Not Available	Not Available
Trisodium Nitrilotriacetate	175 - 225 mg/L LC50 (Lepomis macrochirus) 96 h static 560 - 1000 mg/L LC50 (Oryzias latipes) 96 h 560 - 1000 mg/L LC50 (Oryzias latipes) 96 h semistatic 560 - 1000 mg/L LC50 (Poecilia reticulata) 96 h 560 - 1000 mg/L LC50 (Poecilia reticulata) 96 h semi-static 72 - 133 mg/L LC50 (Oncorhynchus mykiss) 96 h static 93 - 170 mg/L LC50 (Pimephales promelas) 96 h flow-through 114 mg/L LC50 (Pimephales promelas) 96 h 252 mg/L LC50 (Lepomis macrochirus) 96 h 470 mg/L LC50 (Pimephales	Not Available	560 - 1000 mg/L EC50 Chlorella vulgaris 96 h

Other Information:

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life. Biodegrades (slow). Rapid volatilization. Not expected to bioconcentrate.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

Burn in an approved incinerator according to federal, provincial/state, and local regulations. Empty containers retain product residue. Follow label warnings even if container appears to be empty. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: SODIUM HYDROXIDE, SOLUTION

DOT Hazardous Class 8

DOT UN Number: 1823

DOT Packing Group: II

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Shipping Name: SODIUM HYDROXIDE, SOLUTION

Hazard Class: 8

UN Number: 1823

Packing Group: II

Note: No additional remark.

Marine Pollutant: No.

Special Precautions for User

Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

Canada

WHMIS Classification

E CORROSIVE MATERIAL

D2B TOXIC MATERIALS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

16. OTHER INFORMATION

- Additional Information:** This product has been classified in accordance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and the SDS contains all the information required by the Hazardous Products Regulations (HPR).
- Prepared by:** The Environmental, Health and Safety Department of Genesis Chemicals Ltd
- Date of Latest Revision:** February 9, 2017
- Key to Abbreviations:** IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A4 = Not classifiable as a human carcinogen. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration. ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. A4 = Not classifiable as a human carcinogen. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. IDLH = Immediately Dangerous to Life and Health.
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END OF SDS