Printing date 12/01/2017

Reviewed on 12/01/2017

### **1** Identification

- · Product identifier
- Trade name: NTAN Test Solution
- · Article number: M-059
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator
   Sherman Nelson sherman@aquasolutions.org
   Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

- Hazard-determining components of labeling: Sodium Hydroxide
  Hazard statements Causes severe skin burns and eye damage.
  Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

Wash contaminated clothing before reuse.

(Contd. on page 2)

US

Printing date 12/01/2017

Reviewed on 12/01/2017

#### Trade name: NTAN Test Solution

(Contd. of page 1)

Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system:

· NFPÅ ratings (scale 0 - 4)

 $\begin{array}{c} \textbf{Health} = 3\\ Fire = 0\\ Reactivity = 0 \end{array}$ 

· HMIS-ratings (scale 0 - 4)

HEALTH3Health = 3FIRE0Fire = 0REACTIVITY0Reactivity = 0

· Other hazards

· Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

#### **3** Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous comp	onents:	
CAS: 1310-73-2	Sodium Hydroxide	4.9016%
CAS: 67-63-0	Isopropanol	2.306%
· Table of Nonhaz	ardous Ingredients	
CAS: 63451-28-5	Methyl Red Hydrochloride	0.0029%
CAS: 7732-18-5	Water	92.789%

#### **4** First-aid measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **5** Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.

Printing date 12/01/2017

Reviewed on 12/01/2017

Trade name: NTAN Test Solution

- · Advice for firefighters
- · Protective equipment: No special measures required.

#### **6** Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. · Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. • Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. · Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information. · Protective Action Criteria for Chemicals · PAC-1: CAS: 1310-73-2 Sodium Hydroxide  $0.5 \ mg/m^3$ Isopropanol 400 ppm CAS: 67-63-0 · PAC-2: CAS: 1310-73-2 Sodium Hydroxide  $5 mg/m^3$ CAS: 67-63-0 2000\* ppm Isopropanol · PAC-3: CAS: 1310-73-2 Sodium Hydroxide  $50 \text{ mg/m}^3$ 12000\*\* ppm CAS: 67-63-0 Isopropanol

## 7 Handling and storage

· Handling:

- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

(Contd. on page 4)

(Contd. of page 2)

US

Printing date 12/01/2017

Reviewed on 12/01/2017

Trade name: NTAN Test Solution

(Contd. of page 3)

	rol parameters
-	ponents with limit values that require monitoring at the workplace:
	: 1310-73-2 Sodium Hydroxide
PEL	Long-term value: 2 mg/m <sup>3</sup>
REL	Ceiling limit value: 2 mg/m <sup>3</sup>
TLV       Ceiling limit value: 2 mg/m³         CAS: 67-63-0 Isopropanol	
CAS:	c 67-63-0 Isopropanol
PEL	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 984 mg/m³, 400 ppm
	Long-term value: 492 mg/m <sup>3</sup> , 200 ppm
	BEI
Ingre	edients with biological limit values:
CAS:	c 67-63-0 Isopropanol
	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific) tional information: The lists that were valid during the creation were used as basis.
Gene Keep Imme Wash Avoid Avoid Brea	onal protective equipment: eral protective and hygienic measures: away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. d contact with the eyes. d contact with the eyes and skin. thing equipment: Not required. ection of hands:
ſ	
Pun S	Protective gloves

*Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.* 

(Contd. on page 5) US

Printing date 12/01/2017

Reviewed on 12/01/2017

Trade name: NTAN Test Solution

• Eye protection:

(Contd. of page 4)



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
General Information		
Appearance:	<b>v</b>	
Form:	Liquid	
Color: Odor:	Orange Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.02008 g/cm³ (8.51257 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	2.3 %	

Printing date 12/01/2017

Reviewed on 12/01/2017

Trade name: NTAN Test Solution

	(Contd. of page 5)	
VOC content:	2.31 % 23.5 g/l / 0.20 lb/gl	
Solids content: • Other information	4.9 % No further relevant information available.	

### **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

#### **11** Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

*Oral LD50 40,803 mg/kg (rat)* 

Inhalative LC50/4 h 1,301 mg/l (rat)

CAS: 1310-73-2 Sodium Hydroxide

*Oral LD50 2,000 mg/kg (rat)* 

#### · Primary irritant effect:

• on the skin: Caustic effect on skin and mucous membranes.

• on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
CAS: 67-63-0 Isopropanol	3
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	
	t

(Contd. on page 7)

Printing date 12/01/2017

Reviewed on 12/01/2017

#### Trade name: NTAN Test Solution

(Contd. of page 6)

#### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:

· General notes:

- Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	
DOT, IMDG, IATA	UN1760
UN proper shipping name	
DOT	Corrosive liquids, n.o.s. (Sodium hydroxide)
IMDG, IATA	CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)
DOT	
Class	8 Corrosive substances
Label	8

Printing date 12/01/2017

Reviewed on 12/01/2017

Trade name: NTAN Test Solution

	(Contd. of page
IMDG, IATA	
ST THE	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
•	Warning: Corrosive substances
Special precautions for user Danger code (Kemler):	80
EMS Number:	<i>F-A,S-B</i>
Segregation groups	Alkalis
Stowage Category	B
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex.	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
2	On cargo aircraft only: 30 L
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{EQ})$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1760 CORROSIVE LIQUIDS, N.O.S. (SODIUM HYDROXIDE
0	8, II

## **15 Regulatory information**

- · Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara
- · Section 355 (extremely hazardous substances): None of the ingredients is listed. · Section 313 (Specific toxic chemical listings): CAS: 67-63-0 Isopropanol · TSCA (Toxic Substances Control Act): Sodium Hydroxide Isopropanol Water (Contd. on page 9) US

(Contd. of page 8)

A4

### Safety Data Sheet acc. to OSHA HCS

Printing date 12/01/2017

Reviewed on 12/01/2017

Trade name: NTAN Test Solution

•	TSCA new (21st Century Act) (Substances not listed)	
•	Proposition 65	

 $\cdot$  Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

 $\cdot$  Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

CAS: 67-63-0 Isopropanol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms* 



· Signal word Danger

· Hazard-determining components of labeling: Sodium Hydroxide · Hazard statements Causes severe skin burns and eye damage. · Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 10)

Printing date 12/01/2017

Reviewed on 12/01/2017

## Trade name: NTAN Test Solution

(Contd. of page 9)

	formation is based on our present knowledge. However, this shall not constitute a guarantee for a product features and shall not establish a legally valid contractual relationship.
Departn	nent issuing SDS: Environment protection department.
Contact	
Date of	preparation / last revision
	2017: review SDS for accuracy. STN
	n 0.0, 03-25-2015: Creation date for SDS. STN
12/01/2	
	iations and acronyms:
	cord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internatio
	of Dangerous Goods by Road)
	tternational Maritime Code for Dangerous Goods
	Department of Transportation
	ernational Air Transport Association
	American Conference of Governmental Industrial Hygienists
	European Inventory of Existing Commercial Chemical Substances
	European List of Notified Chemical Substances
	emical Abstracts Service (division of the American Chemical Society)
	ational Fire Protection Association (USA)
	azardous Materials Identification System (USA) latile Organic Compounds (USA, EU)
	thal concentration, 50 percent
	thal dose, 50 percent
	sistent, Bioaccumulative and Toxic
	ry Persistent and very Bioaccumulative
	vational Institute for Occupational Safety
	ccupational Safety & Health
	eshold Limit Value
PEL: Peri	missible Exposure Limit
	ommended Exposure Limit
BEI: Biol	ogical Exposure Limit
Skin Corr	. 1B: Skin corrosion/irritation – Category 1B