

# SAFETY DATA SHEET

Issue Date 17-10-2019

Revision Date 10-Feb-2025

**1. IDENTIFICATION** 

Version 4.8

Page 1 / 16

<u>Product identifier</u> Product Name	Nessler Reagent
Other means of identification Product Code(s)	2119432
Safety data sheet number	M00503
UN/ID no	UN2922
Recommended use of the chemica	al and restrictions on use
Recommended Use	Laboratory reagent. Determination of ammonium nitrogen.
Uses advised against	Consumer use.
Restrictions on use	For Laboratory Use Only.

Details of the supplier of the safety data sheet

#### Manufacturer Address

Hach Company, P.O.Box 389, Loveland, CO 80539, USA, +1(970) 669-3050

#### Emergency telephone number

+1(303) 623-5716 - 24 Hour Service

2. HAZARDS IDENTIFICATION

#### **Classification**

#### **Regulatory Status**

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

Corrosive to metals	Category 1
Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (repeated exposure)	Category 2
Aquatic Acute Toxicity	Category 1
Chronic aquatic toxicity	Category 1

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

Signal word Danger

Product NameNessler ReagentRevision Date10-Feb-2025Page2 / 16



#### Hazard statements

- H290 May be corrosive to metals
- H301 Toxic if swallowed
- H310 Fatal in contact with skin
- H314 Causes severe skin burns and eye damage
- H331 Toxic if inhaled
- H373 May cause damage to organs through prolonged or repeated exposure
- H410 Very toxic to aquatic life with long lasting effects

#### **Precautionary statements**

P270 - Do not eat, drink or smoke when using this product

- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P405 Store locked up
- P501 Dispose of contents/ container to an approved waste disposal plant
- P262 Do not get in eyes, on skin, or on clothing
- P310 Immediately call a POISON CENTER or doctor/physician
- P271 Use only outdoors or in a well-ventilated area
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P280 Wear protective gloves, protective clothing, eye protection, and face protection
- 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
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P363 Wash contaminated clothing before reuse
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P273 Avoid release to the environment
- P391 Collect spillage
- P234 Keep only in original container
- P390 Absorb spillage to prevent material damage

#### Other Hazards Known

None

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Not applicable

**Mixture** 

Chemical Family Chemical nature Mixture. aqueous solution.

## Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
Sodium hydroxide	1310-73-2	10 - 20%	-
Mercuric iodide	7774-29-0	<10%	-
Sodium iodide	7681-82-5	3 - 7%	-

## **4. FIRST AID MEASURES**

## **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. 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 breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention. Immediate medical attention is required.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical advice/attention.
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical advice/attention.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. 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. Do not breathe vapor or mist.
Most important symptoms and effe	cts, both acute and delayed
Symptoms	Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.
Indication of any immediate medica	al attention and special treatment needed
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.
	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.
Specific hazards arising from the chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Product Code(s) 2119432 Issue Date 17-10-2019 Version 4.8	Product Name Nessler Reagent Revision Date 10-Feb-2025 Page 4 / 16			
Hazardous combustion products	Mercury. Sodium oxides. Iodine compounds.			
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.			
	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. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.			
Personal precautions, protective eq	uipment and emergency procedures			
Personal precautions	Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Attention! Corrosive material. Keep people away from and upwind of spill/leak. Do not breathe vapor or mist.			
Other Information	Refer to protective measures listed in Sections 7 and 8.			
Environmental precautions				
Environmental precautions	Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.			
Methods and material for containme	ent and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal.			
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.			
Reference to other sections	See section 8 for more information. See section 13 for more information.			
	7. HANDLING AND STORAGE			
Precautions for safe handling				

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Do not breathe vapor or mist.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.
Flammability class	Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product NameNessler ReagentRevision Date10-Feb-2025Page5 / 16

#### Control parameters

#### **Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>	
CAS#: 1310-73-2		(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	
Mercuric iodide	TWA: 0.025 mg/m <sup>3</sup> Hg	(vacated) Ceiling: 0.1 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Hg	
CAS#: 7774-29-0	TWA: 0.01 mg/m <sup>3</sup> l inhalable		Ceiling: 0.1 mg/m <sup>3</sup> Hg	
	particulate matter		TWA: 0.05 mg/m <sup>3</sup> except	
	Sk*		Organo alkyls Hg vapor	
Sodium iodide	TWA: 0.01 mg/m <sup>3</sup> l inhalable	NDF	NDF	
CAS#: 7681-82-5	particulate matter			
	Sk*			
Appropriate engineering controls				
Engineering Controls	Showers			
Engineering controls	Eyewash stations			
	Ventilation systems.			
	ventilation systems.			
Individual protection measures, suc	h as personal protective equi	pment_		
Respiratory protection		eded under normal use condition		
	exceeded or irritation is experi-	enced, ventilation and evacuati	on may be required.	
Hand Protection	Wear suitable gloves. Impervious gloves. Gloves must be inspected prior to use. The			
	selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and			
	the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.			
	nitrile rubber category III accor	ding to EN 374-1:2016.		
Eye/face protection	Face protection shield.			
Skin and body protection	Impervious clothing. Wear suit	able protective clothing. Long s	leeved clothing. Chemical	
	resistant apron.			
General Hygiene Considerations		face protection. Do not eat, drir		
		quipment, work area and clothing		
		ing. Remove and wash contar		
	including the inside, before re-	use. Wash hands before break	s and immediately after	
	nandling the product. Contami	nated work clothing should not	be allowed out of the	
	workplace. Do not breathe vap	ou or mist.		
Environmental exposure controls	Local authorities should be adv	vised if significant spillages can	not be contained. Do not allow	
•	into any sewer, on the ground			
	-			
Thermal hazards	None under normal processing	].		
9	. PHYSICAL AND CHEM	ICAL PROPERTIES		

## Information on basic physical and chemical properties

Physical state Appearance Odor	aqueous solution Odorless	Liquid		Color Odor threshold	yellow No data availa	able
Property_			<u>Values</u>		Ē	Remarks • Method
Molecular weigh	t		No data availal	ble		
рН			12.1		(	@ 20 °C

Product NameNessler ReagentRevision Date10-Feb-2025Page6 / 16

Melting point / freezing point	~ -21 °C / -5.8 °F
Initial boiling point and boiling range	110 °C / 230 °F
Evaporation rate	No data available
Vapor pressure	21.602 mm Hg $$ / $$ 2.88 kPa $$ at $$ 25 °C $$ / $$ 77 °F $$
Relative vapor density	0.62
Specific gravity - VALUE 1	1.265
Partition coefficient	Not applicable
Soil Organic Carbon-Water Partition	Not applicable
Autoignition temperature	No data available
Decomposition temperature	110 °C / 230 °F
Dynamic viscosity	No data available
Kinematic viscosity	No data available

#### Solubility(ies)

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

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

#### **Other information**

 Corrosive to metals

 Classified as corrosive to metal according to GHS criteria

 Steel Corrosion Rate
 No data available

 Aluminum Corrosion Rate
 No data available

Volatile Organic Compounds (VOC) Content

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sodium hydroxide	1310-73-2	No data available	-
Mercuric iodide	7774-29-0	No data available	-
Sodium iodide	7681-82-5	No data available	-

#### **Explosive properties**

Upper explosion limit Lower explosion limit No data available No data available

Flammable properties

EN / EGHS

#### Flash point

Flammability Limit in Air Upper flammability limit: Lower flammability limit:

**Oxidizing properties** 

**Bulk density** 

Product Name Nessler Reagent Revision Date 10-Feb-2025 Page 7 / 16

No data available

No data available No data available

No data available.

No data available

## **10. STABILITY AND REACTIVITY**

#### Reactivity

Corrosive on contact with water. Corrosive to metal.

#### Chemical stability

Stable under normal conditions.

#### **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Possibility of hazardous reactions None under normal processing.

Hazardous polymerization None under normal processing.

#### Conditions to avoid

Product Information

Exposure to air or moisture over prolonged periods. Excessive heat.

#### Incompatible materials

Oxidizing agent. Acids. Bases.

#### Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation	Corrosive by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Toxic by inhalation.
Eye contact	Causes burns. Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.
Skin contact	Fatal in contact with skin. Corrosive. Causes severe burns. Avoid contact with skin and clothing.
Ingestion	Causes burns. Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the

Product Name Nessler Reagent Revision Date 10-Feb-2025 Page 8 / 16

mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.

## Symptoms

#### Acute toxicity

Toxic if swallowed Fatal in contact with skin Toxic if inhaled

#### Mixture

No data available.

#### **Ingredient Acute Toxicity Data**

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Mercuric iodide (<10%) CAS#: 7774-29-0	Rat LD₅₀	18 mg/kg	None reported	None reported	RTECS
Sodium iodide (3 - 7%) CAS#: 7681-82-5	Rat LD50	4340 mg/kg	None reported	None reported	RTECS

#### Dermal Exposure Route

#### Inhalation (Dust/Mist) Exposure Route

#### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

#### **Acute Toxicity Estimations (ATE)**

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

ATEmix (oral)	189.30 mg/kg
ATEmix (dermal)	52.70 mg/kg
ATEmix (inhalation-dust/mist)	0.53 mg/l
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

#### Skin corrosion/irritation

Causes severe burns.

#### Mixture

No data available.

#### Ingredient Skin Corrosion/Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium hydroxide (10 - 20%)	Patch test	Human	20 mg	24 hours	Corrosive to skin	RTECS

CAS#: 1310-73-2						
Sodium iodide	Standard Draize	Rabbit	500 mg	24 hours	Skin irritant	RTECS
(3 - 7%)	Test		_			
CAS#: 7681-82-5						

#### Serious eye damage/irritation

Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

#### Mixture

No data available.

#### Ingredient Eye Damage/Eye Irritation Data

Test data reported below.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium hydroxide (10 - 20%) CAS#: 1310-73-2	Standard Draize Test	Rabbit	0.05 mg	24 hours	Corrosive to eyes	RTECS
Sodium iodide (3 - 7%) CAS#: 7681-82-5	Standard Draize Test	Rabbit	100 mg	24 hours	Eye irritant	RTECS

#### **Respiratory or skin sensitization**

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

#### Ingredient Sensitization Data

No data available.

#### STOT - single exposure

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data** No data available.

#### STOT - repeated exposure

May cause damage to organs.

#### Mixture

No data available.

## Ingredient Specific Target Organ Toxicity Repeat Exposure Data

No data available.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

#### Ingredient Carcinogenicity Data

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
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EN / EGHS

Sodium hydroxide	1310-73-2	-	-	-	-
Mercuric iodide	7774-29-0	-	Group 3	-	-
Sodium iodide	7681-82-5	-	-	-	-

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Group 3 - Not Classifiable as to
	Carcinogenicity in Humans
NTP (National Toxicology Program)	Does not apply
OSHA	Does not apply

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### **Mixture** invitro **Data** No data available.

## Substance invitro Data

No data available.

#### **Mixture** invivo **Data** No data available.

## Substance invivo Data No data available.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### Mixture

No data available.

## Ingredient Reproductive Toxicity Data

Test data reported below.

#### **Oral Exposure Route**

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sodium iodide	Woman	9240 mg/kg	43 weeks	Effects on Newborn	RTECS
(3 - 7%)	TDLo			Other neonatal measures or	
CAS#: 7681-82-5				effects	
				Specific Developmental	
				Abnormalities	
				Endocrine System	

#### Inhalation (Dust/Mist) Exposure Route

Chemical name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Mercuric iodide	Rat	0.000004870	22 days	Effects on Embryo or Fetus	RTECS
(<10%)	TCLO	mg/L		Fetal death Effects on Fertility	
CAS#: 7774-29-0				Post-implantation mortality (e.g.	
				dead and/or resorbed implants	
				per total number of implants)	

#### Aspiration hazard

Based on available data, the classification criteria are not met.

## **12. ECOLOGICAL INFORMATION**

Product Name Nessler Reagent Revision Date 10-Feb-2025 Page 11 / 16

#### Ecotoxicity

Very toxic to aquatic life with long lasting effects.

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

#### <u>Mixture</u>

Aquatic Acute Toxicity No data available.

Unknown aquatic toxicity

Aquatic Chronic Toxicity No data available.

#### **Substance**

#### Aquatic Acute Toxicity

Test data reported below.

#### Fish

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium hydroxide (10 - 20%) CAS#: 1310-73-2	96 hours	Oncorhynchus mykiss	LC <sub>50</sub>	45.4 mg/L	IUCLID
Mercuric iodide (<10%) CAS#: 7774-29-0	96 hours	Leuciscus idus	LC <sub>50</sub>	0.13 mg/L	Vendor SDS
Sodium iodide (3 - 7%) CAS#: 7681-82-5	96 hours	Oncorhynchus mykiss	LC <sub>50</sub>	3780 mg/L	EPA

#### Crustacea

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium hydroxide (10 - 20%) CAS#: 1310-73-2	48 Hours	Daphnia sp.	EC50	40.4 mg/L	IUCLID
Mercuric iodide (<10%) CAS#: 7774-29-0	48 Hours	Daphnia magna	EC50	0.0052 mg/L	Vendor SDS
Sodium iodide (3 - 7%) CAS#: 7681-82-5	48 Hours	Daphnia magna	EC50	0.17 mg/L	EPA

## **Aquatic Chronic Toxicity**

No data available.

#### Persistence and degradability

**Mixture** No data available.

**Mixture** No data available.

#### Partition coefficient

Mobility

EN / EGHS

Not applicable

Product NameNessler ReagentRevision Date10-Feb-2025Page12 / 16

## Soil Organic Carbon-Water Partition Coefficient

Not applicable

### Other adverse effects

No information available

## **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
US EPA Waste Number	D009, D002
Special instructions for disposal	Decontaminate any equipment or surfaces that have come in contact with mercury with commercially available mercury absorbing compounds. Dispose of all mercury contaminated material at an E.P.A. hazardous waste facility. Dispose of material in an E.P.A. approved hazardous waste facility.

## **14. TRANSPORT INFORMATION**

DOT UN/ID no Proper shipping name DOT Technical Name Transport hazard class(es) Subsidiary class Packing Group Emergency Response Guide Number	UN2922 CORROSIVE LIQUIDS, TOXIC, N.O.S. Sodium hydroxide, Mercuric iodide 8 6.1 II 154
TDG UN/ID no Proper shipping name TDG Technical Name Transport hazard class(es) Subsidiary class Packing Group	UN2922 CORROSIVE LIQUID, TOXIC, N.O.S. Sodium hydroxide, Mercuric iodide 8 6.1 II
IATA UN number or ID number Proper shipping name IATA Technical Name Transport hazard class(es) Subsidiary hazard class Packing group ERG Code	UN2922 Corrosive liquid, toxic, n.o.s. Sodium hydroxide, Mercuric iodide 8 6.1 II 8P
IMDG UN number or ID number Proper shipping name IMDG Technical Name Transport hazard class(es) Subsidiary hazard class Packing Group	UN2922 CORROSIVE LIQUID, TOXIC, N.O.S. Sodium hydroxide, Mercuric iodide 8 6.1 II

Product Name Nessler Reagent Revision Date 10-Feb-2025 **Page** 13 / 16

EmS-No	F-A, S-B
Special Provisions	274
Marine pollutant	This material meets the definition of a marine pollutant

#### 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**

## National Inventories

For Inventory status, "complies" means, listed on the inventory, exempted or otherwise complies.

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

Complies
Complies

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 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

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
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)

Chemical name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority	CWA - Hazardous
EN / EGHS				Page 13 / 16

	Quantities		Pollutants	Substances
Sodium hydroxide 1310-73-2	1000 lb	-	-	Х
Mercuric iodide 7774-29-0	-	Х	-	-

## 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	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ

#### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65	
Mercuric iodide (CAS #: 7774-29-0)	Developmental	

**WARNING:** This product can expose you to chemicals including Mercuric iodide, which is known to the State of California to cause birth defects or other reproductive harm.

For more information, go to <u>http://www.P65Warnings.ca.gov</u>

**IMERC:** Contains Mercury Dispose of in accordance with local, state and federal regulations or laws.

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

This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	Х	Х	Х
Mercuric iodide 7774-29-0	Х	-	Х

#### U.S. EPA Label Information

Chemical name	FIFRA	FDA
Sodium hydroxide	180.0910	21 CFR 184.1763
Sodium iodide	180.0940	-

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

## Special Comments

This product contains mercury and may be subject to reporting and recordkeeping requirements

#### **Additional information**

#### Global Automotive Declarable Substance List (GADSL)

Chemical name	Global Automotive Declarable	Global Automotive Declarable		
EN / EGHS		Page 14 / 16		

	Substance List Classifications	Substance List Thersholds
Mercuric iodide	Declarable Substance (LR)	0.0005 %
7774-29-0	Prohibited Substance (LR)	0.1 %

#### **NFPA and HMIS Classifications**

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and chemical properties -
HMIS	Health hazards - 3 - *	Flammability - 0	Physical hazards - 0	Personal protection -
				- 1

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

ACGIH ATSDR CCRIS CDC CEPA CICAD ECHA EEA EPA ERMA ECOSARS FDA GESTIS		ACGIH (American Conference of Governmental Industrial Hygienists) ATSDR (Agency for Toxic Substances and Disease Registry) CCRIS (Chemical Carcinogenesis Research Information System) CDC (Center for Disease Control) CEPA (Canadian Environmental Protection Agency) CICAD (Concise International Chemical Assessment Documents) ECHA (The European Chemicals Agency) EEA (European Environment Agency) EEA (European Environment Agency) ENVIRONMENTAL Protection Agency ERMA (New Zealands Environmental Risk Management Authority) Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite <sup>™</sup> FDA (Food & Drug Administration) GESTIS (Information System on Hazardous Substances of the German Social Accident			
HSDB INERIS IPCS INCHEM IUCLID NITE NIH NIOSH LOLI NDF NICNAS NIOSH IDLH OSHA PEEN RTECS SIDS SYKE USDA USDC WHO		Insurance) HSDB (Hazardous Substances Data Bank) INERIS (The National Industrial Environment and Risks Institute) IPCS INCHEM (International Programme on Chemical Safety) IUCLID (The International Uniform Chemical Information Database) Japan National Institute of Technology and Evaluation (NITE) NIH (National Institutes of Health) NIOSH (National Institute for Occupational Safety and Health) LOLI (List of Lists - An International Chemical Regulatory Database) no data Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) Immediately Dangerous to Life or Health Occupational Safety and Health Administration of the US Department of Labor PEEN (Pan European Ecological Network) RTECS (Registry of Toxic Effects of Chemical Substances) SIDS (Screening Information Dataset) for High Volume Chemicals The Finnish Environment Institute (SYKE) USDA (United States Department of Agriculture) USDC (United States Department of Commerce)			
Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION					
TWA	TWA (time-weight	ed average)	STEL	STEL (Short Term Exposure Limit)	
MAC	Maximum Allowab	le Concentration	Ceiling	Ceiling Limit Value	
Х	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.	

Product NameNessler ReagentRevision Date10-Feb-2025Page16 / 16

SKN* RSP+ C M	Skin designation Respiratory sensit Carcinogen mutagen	ization	SKN+ ** R	Skin sensitization Hazard Designation Reproductive toxicant
Prepared By		Hach Product Compliance	e Department	
Issue Date		17-10-2019		
<b>Revision Date</b>		10-Feb-2025		
Revision Note		SDS sections updated 2		

#### **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.

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End of Safety Data Sheet