

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 12/23/2013 Revision date: 10/13/2016 Supersedes: 12/23/2013

Version: 1.1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product form : Mixture
Product name : Bleach
CAS No : 7681-52-9
Product code : VT150

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : For laboratory and manufacturing use only

#### 1.3. Details of the supplier of the safety data sheet

Val Tech Diagnostics, A Division of LabChem Inc Jackson's Pointe Commerce Park Building 1000 1010 Jackson's Pointe Court Zelienople, PA 16063 T 412-826-5230 F 724-473-0647

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Skin Irrit. 2 H315 Eye Dam. 1 H318 Aquatic Acute 2 H401

Full text of H statements : see section 16

## 2.2. Label elements

# **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS05

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H315 - Causes skin irritation

H318 - Causes serious eye damage

H401 - Toxic to aquatic life

Precautionary statements (GHS-US) : P264 - Wash exposed skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves, protective clothing, eye protection, face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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 P332 + P313 - If skin irritation occurs: Get medical advice/attention P362 - Take off contaminated clothing and wash it before reuse

P501 - Dispose of contents/container to comply with local, state and federal regulations

### 2.3. Other hazards

Other hazards not contributing to the

classification

: None.

# 2.4. Unknown acute toxicity (GHS US)

No data available

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#### SECTION 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	94.75	Not classified
Sodium Hypochlorite	(CAS No) 7681-52-9	5.25	Unst. Expl, H200 Ox. Sol. 2, H272 Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

# 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Protective clothing. Gloves.

Emergency procedures : Evacuate unnecessary personnel.

## 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

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#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapor.

Hygiene measures : Wash exposed skin thoroughly after handling.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : incompatible

materials. Keep container closed when not in use.

Incompatible products : Strong reducing agents. combustible materials. aluminum. metals. Ammonia. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

#### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

## 8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

Personal protective equipment : Safety glasses. Gloves. Protective clothing.







Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses. Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information : Do not eat, drink or smoke during use.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Yellow liquid.
Color : Yellow.
Odor : chlorine-like.
Odor threshold : 0.3 ppm
pH : 11.5 - 12.5
Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available : No data available Freezing point Boiling point No data available Flash point : No data available Auto-ignition temperature No data available Decomposition temperature : No data available Flammability (solid, gas) No data available Vapor pressure 12 mm Ha

Relative vapor density at 20 °C : No data available Relative density : No data available Solubility : Soluble in water.

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Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : No data available

#### 9.2. Other information

VOC content : 0 %

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Reacts violently with acids. May react violently with reducing agents. Contact with acids liberates toxic gas.

#### 10.4. Conditions to avoid

Incompatible materials. Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong reducing agents. Water. zinc. metals. aluminum. Ammonia. Strong acids.

### 10.6. Hazardous decomposition products

Hydrogen chloride. Chlorine. Phosgene.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Water (7732-18-5)			
LD50 oral rat	≥ 90000 mg/kg		
Skin corrosion/irritation	: Causes skin irritation.		
	pH: 11.5 - 12.5		
Serious eye damage/irritation	: Causes serious eye damage.		
	pH: 11.5 - 12.5		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		

IARC group 3 - Not classifiable

Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes serious eye damage.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - water : Toxic to aquatic life.

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Bleach (7681-52-9)		
LC50 fish 1	4.7 mg/l	
Sodium Hypochlorite (7681-52-9)		
EC50 Daphnia 1	2.1 mg/l (EC50; 96 h)	
LC50 fish 2	0.19 mg/l (LC50; 96 h)	
Threshold limit algae 1 0.84 mg/l (EC50; 24 h)		

### 12.2. Persistence and degradability

Bleach (7681-52-9)		
Persistence and degradability	Not established.	
Sodium Hypochlorite (7681-52-9)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
Water (7732-18-5)		
Persistence and degradability	Not established.	

### 12.3. Bioaccumulative potential

Bleach (7681-52-9)		
Bioaccumulative potential	Not established.	
Sodium Hypochlorite (7681-52-9)		
Bioaccumulative potential	Not bioaccumulative.	
Water (7732-18-5)		
Bioaccumulative potential	Not established.	

### 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

Other information : Avoid release to the environment.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

In accordance with DOT Not regulated for transport

# **Additional information**

Other information : No supplementary information available.

#### **ADR**

Transport document description :

## Transport by sea

No additional information available

## Air transport

No additional information available

# **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

# Bleach (7681-52-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

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Bleach (7681-52-9)			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb		
Sodium Hypochlorite (7681-52-9)	Sodium Hypochlorite (7681-52-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Reactive hazard			
Water (7732-18-5)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			

## 15.2. International regulations

#### **CANADA**

Bleach (7681-52-9)			
WHMIS Classification	Class E - Corrosive Material		
Sodium Hypochlorite (7681-52-9)			
Listed on the Canadian DSL (Domestic Substances List)			
WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material Class F - Dangerously Reactive Material		
Water (7732-18-5)			
WHMIS Classification Uncontrolled product according to WHMIS classification criteria			

## **EU-Regulations**

# Water (7732-18-5)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

# Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

C; R34 R31 N; R50

Full text of R-phrases: see section 16

# 15.2.2. National regulations

## Sodium Hypochlorite (7681-52-9)

Listed on the Canadian IDL (Ingredient Disclosure List)

Water (7732-18-5)

# 15.3. US State regulations

Bleach(7681-52-9)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

Sodium Hypochlorite (7681-52-9)				
U.S California -	U.S California -	U.S California -	U.S California -	Non-significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	

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Water (7732-18-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	

## **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

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H200	Unstable explosives
H272	May intensify fire; oxidizer
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H401	Toxic to aquatic life

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

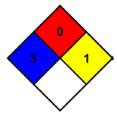
given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.



### **HMIS III Rating**

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard
Physical : 1 Slight Hazard

Personal protection : H

SDS US ValTech

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