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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 22.11.2022 Version number 1.0 Revision: 13.08.2019

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

- · 1.1 Product identifier
- · Trade name: LabAssay™ Ammonia / Deproteinizing reagent
- Article number: 633-51761(A)
- · Registration number

Registration numbers of the individual components: see section 3.2, if applicable.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation: Laboratory chemicals
- · Uses advised against

Only for professional use.

Do not use for private purposes (household).

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr. 12 41468 Neuss Deutschland

Tel: +49 (0) 2131-311-0 Fax: +49 (0) 2131-311 100

- · Further information obtainable from: msds\_eu@fujifilm.com
- 1.4 Emergency telephone number: +49 (0) 2131-311-0 (8h-16h)

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

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

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

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

sulphuric acid

· Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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Trade name: LabAssay™ Ammonia / Deproteinizing reagent

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or 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.

P310 Immediately call a POISON CENTER/doctor.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

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

- 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
	Sodium Tungstate Dihydrate	1-5%
EINECS: 236-743-4	♦ Acute Tox. 4, H302	
	sulphuric acid	0.5-1.5%
EINECS: 231-639-5	Skin Corr. 1A, H314	
	Specific concentration limits: Skin Corr. 1A; H314: C ≥ 15 %	
	Skin Irrit. 2; H315: 5 % ≤ C < 15 %	
	Eye Irrit. 2; H319: 5 % ≤ C < 15 %	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

• 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: None.

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

During heating or in case of fire poisonous gases are produced.

- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 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.

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

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

- · Storage class: 8 B
- · 7.3 Specific end use(s) No further relevant information available.

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Trade name: LabAssay™ Ammonia / Deproteinizing reagent

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### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working. Storing food in the working area is prohibited.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

#### · Material of gloves

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness  $\geq 0.36$  mm, breakthrough time > 480 min) or neoprene (thickness  $\geq 0.65$  mm, breakthrough time > 240 min).

· Eye/face protection



Safety glasses

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

· Body protection: Protective work clothing

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

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

**boiling range** Undetermined.

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Trade name: LabAssay™ Ammonia / Deproteinizing reagent

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· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. · Ignition temperature: Not determined. · Decomposition temperature: Not determined.

· pH at 20 °C 15

· Viscosity:

Kinematic viscosity Not determined. · Dynamic: Not determined.

· Solubility

· water: Fully miscible.

· Partition coefficient n-octanol/water (log

Not determined. value) · Vapour pressure: Not determined.

Density and/or relative density

· Density: Not determined. · Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Not determined. · Evaporation rate Not determined.

· Information with regard to physical hazard

classes

· Explosives Not applicable · Flammable gases Not applicable · Aerosols Not applicable · Oxidising gases Not applicable · Gases under pressure Not applicable · Flammable liquids Not applicable · Flammable solids Not applicable · Self-reactive substances and mixtures Not applicable · Pyrophoric liquids Not applicable · Pyrophoric solids Not applicable Self-heating substances and mixtures Not applicable

· Substances and mixtures, which emit

flammable gases in contact with water Not applicable Not applicable · Oxidising liquids · Oxidising solids Not applicable · Organic peroxides Not applicable · Corrosive to metals Not applicable · Desensitised explosives Not applicable





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Trade name: LabAssay™ Ammonia / Deproteinizing reagent

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### **SECTION 10: Stability and reactivity**

- $\cdot$  10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions Reacts with strong alkali.
- · 10.4 Conditions to avoid

See "Fire Fighting measures".

Protect from heat and direct sunlight.

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50	· LD/LC50 values relevant for classification:		
10213-10-	10213-10-2 Sodium Tungstate Dihydrate		
Oral	LD50	1,539 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
7664-93-9	sulphuri	c acid	
Oral	LD50	2,140 mg/kg (rat)	
Inhalative	LC50/4h	0.347 mg/l (rat)	

Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

10213-10-2 Sodium Tungstate Dihydrate

LC50/96 h >200 mg/l (fish)

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	(Cont. from page 6)
EC50/48 h	>163 mg/l (daphnia)
ErC50/72h	>17.7 mg/l (Algae)
7664-93-9	sulphuric acid
LC50/96 h	16-28 mg/l (fish)
4000	

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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

Contact waste processors for recycling information.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	ation
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1760
· · · ·	011700
· 14.2 UN proper shipping name · ADR	1760 CORROSIVE LIQUID, N.O.S. (SULPHURIC
APIX	ACID)
· IMDG, IATA	CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID)
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· 14.3 Transport hazard class(es)

· ADR, IMDG, IATA



· Class 8 Corrosive substances.

· Label 8

· 14.4 Packing group

· ADR, IMDG, IATA

• 14.5 Environmental hazards: Not applicable.

• 14.6 Special precautions for user Warning: Corrosive substances.

Hazard identification number (Kemler code): 80
 EMS Number: F-A,S-B

· Stowage Category B

Stowage Code
 SW2 Clear of living quarters.

· 14.7 Maritime transport in bulk according to

**IMO instruments** Not applicable.

· Transport/Additional information:

ADR

Limited quantities (LQ)Excepted quantities (EQ)5LCode: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000

ml ૧

• Transport category 3
• Tunnel restriction code E

· IMDG

· Limited quantities (LQ) 5L

• Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000

ml

· UN "Model Regulation": UN 1760 CORROSIVE LIQUID, N.O.S.

(SULPHURIC ACID), 8, III

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

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· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

· Creation Date 13.08.2019

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning

the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

· \* Data modified compared to previous version.





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

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

- · 1.1 Product identifier
- · Trade name: LabAssay™ Ammonia / Chromogen reagent A
- Article number: 633-51761(B)
- · Registration number

Registration numbers of the individual components: see section 3.2, if applicable.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation: Laboratory chemicals
- · Uses advised against

Only for professional use.

Do not use for private purposes (household).

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr. 12 41468 Neuss Deutschland

Tel: +49 (0) 2131-311-0 Fax: +49 (0) 2131-311 100

- · Further information obtainable from: msds\_eu@fujifilm.com
- 1.4 Emergency telephone number: +49 (0) 2131-311-0 (8h-16h)

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

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H332 Harmful if inhaled.

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

Eye Dam. 1 H318 Causes serious eye damage.

Muta. 2 H341 Suspected of causing genetic defects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms







GHS05 GHS07 GHS08

- · Signal word Danger
- · Hazard-determining components of labelling: phenol
- · Hazard statements

H332 Harmful if inhaled.

H314 Causes severe skin burns and eye damage.

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Trade name: LabAssay™ Ammonia / Chromogen reagent A

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H341 Suspected of causing genetic defects.

· Precautionary statements

P201 Obtain special instructions before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

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

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 108-95-2	phenol	3-5%
EINECS: 203-632-7	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 3 % Skin Irrit. 2; H315: 1 % ≤ C < 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 %	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- $\cdot$  4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

• 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· For safety reasons unsuitable extinguishing agents: Water with full jet

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Trade name: LabAssay™ Ammonia / Chromogen reagent A

(Cont. from page 2)

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

During heating or in case of fire poisonous gases are produced.

- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.
- Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 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.

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

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

- $\cdot$  Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

- · Storage class: 8 B
- · 7.3 Specific end use(s) No further relevant information available.

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# Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: LabAssay™ Ammonia / Chromogen reagent A

(Cont. from page 3)

### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Storing food in the working area is prohibited.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

#### · Material of gloves

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq$  0.38 mm, breakthrough time > 480 min).

· Eye/face protection



Safety glasses

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

· Body protection: Protective work clothing

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

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range Undetermined. Flammability Not applicable.

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Trade name: LabAssay™ Ammonia / Chromogen reagent A

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· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Ignition temperature: Not determined.
Decomposition temperature: Not determined.
pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

· water: Not determined.

· Partition coefficient n-octanol/water (log

value) Not determined.

• Vapour pressure: Not determined.

· Density and/or relative density

Density: Not determined.
 Relative density Not determined.
 Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

· **Auto-ignition temperature:** Product is not selfigniting.

Explosive properties: Not determined.Evaporation rate Not determined.

Information with regard to physical hazard classes

· Explosives Not applicable Flammable gases Not applicable Not applicable · Aerosols · Oxidising gases Not applicable · Gases under pressure Not applicable · Flammable liquids Not applicable · Flammable solids Not applicable · Self-reactive substances and mixtures Not applicable · Pyrophoric liquids Not applicable · Pyrophoric solids Not applicable · Self-heating substances and mixtures Not applicable

· Substances and mixtures, which emit

flammable gases in contact with water

Oxidising liquids
Oxidising solids
Organic peroxides
Corrosive to metals
Oxidised explosives
Not applicable
Not applicable
Not applicable
Not applicable

EN





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Trade name: LabAssay™ Ammonia / Chromogen reagent A

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### **SECTION 10: Stability and reactivity**

- $\cdot$  10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid See "Fire Fighting measures".
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity

Harmful if inhaled.

ſ	· LD/LC50 values relevant for classification:		
Γ	108-95-2 phenol		
Ī	Oral	LD50	317 mg/kg (rat)
	Dermal	LD50	850 mg/kg (rabbit)
	Inhalative	LC50/4h	316 mg/m³ (rat)

#### · Skin corrosion/irritation

Causes severe skin burns and eye damage.

· Serious eye damage/irritation

Causes serious eye damage.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity

Suspected of causing genetic defects.

- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

#### 108-95-2 phenol

LC50/48 h 3.1 mg/l (daphnia)

LC50/96 h 25 mg/l (fish)

• 12.2 Persistence and degradability No further relevant information available.

(Cont. on page 7)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent A

(Cont. from page 6)

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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

Contact waste processors for recycling information.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information	tion	
· 14.1 UN number or ID number		
· ADR, IMDG, IATA	Not applicable	
· 14.2 UN proper shipping name		
· ADR, IMDG, IATA	Not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
Class	Not applicable	
· 14.4 Packing group		
· ADR, IMDG, IATA	Not applicable	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk accordi	ing to	
IMO instruments	Not applicable.	

(Cont. on page 8)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent A

(Cont. from page 7)

· UN "Model Regulation":

Not applicable

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H373 May cause damage to organs through prolonged or repeated exposure.

· Creation Date 12.08.2019

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Muta. 2: Germ cell mutagenicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

· \* Data modified compared to previous version.

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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

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

- · 1.1 Product identifier
- · Trade name: LabAssay™ Ammonia / Chromogen reagent B
- Article number: 633-51761(C)
- · Registration number

Registration numbers of the individual components: see section 3.2, if applicable.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation: Laboratory chemicals
- · Uses advised against

Only for professional use.

Do not use for private purposes (household).

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr. 12 41468 Neuss Deutschland

Tel: +49 (0) 2131-311-0 Fax: +49 (0) 2131-311 100

- · Further information obtainable from: msds\_eu@fujifilm.com
- 1.4 Emergency telephone number: +49 (0) 2131-311-0 (8h-16h)

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

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

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

Eye Dam. 1 H318 Causes serious eye damage.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

potassium hydroxide

· Hazard statements

H314 Causes severe skin burns and eye damage.

· Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Cont. on page 2)





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# Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: LabAssay™ Ammonia / Chromogen reagent B

(Cont. from page 1)

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or 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.

P310 Immediately call a POISON CENTER/doctor.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

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

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 1310-58-3	potassium hydroxide	≥2-<5%
EINECS: 215-181-3	Met. Corr.1, H290; Skin Corr. 1A, H314;	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: None.
- · 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

(Cont. on page 3)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent B

(Cont. from page 2)

- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

· 6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 6.4 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.

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

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

- $\cdot \ \textbf{Information about storage in one common storage facility:} \ \textbf{Store away from foodstuffs}.$
- · Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

- · Storage class: 8 B
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Cont. on page 4)





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# Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: LabAssay™ Ammonia / Chromogen reagent B

(Cont. from page 3)

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working. Storing food in the working area is prohibited.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

#### · Material of gloves

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness  $\geq 0.36$  mm, breakthrough time > 480 min), nitrile rubber (thickness  $\geq 0.38$  mm, breakthrough time > 480 min) or neoprene (thickness  $\geq 0.65$  mm, breakthrough time > 240 min).

Eye/face protection



Safety glasses

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

· Body protection: Protective work clothing

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

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range Undetermined.
• Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Ignition temperature: Not determined.

(Cont. on page 5)





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### Safety data sheet according to 1907/2006/EC, Article 31

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Trade name: LabAssay™ Ammonia / Chromogen reagent B

(Cont. from page 4)

· Decomposition temperature: Not determined.

· pH at 20 °C

· Viscosity:

· Kinematic viscosity Not determined. · Dynamic: Not determined.

· Solubility

· water: Fully miscible.

· Partition coefficient n-octanol/water (log

value) Not determined. Not determined. · Vapour pressure:

· Density and/or relative density

· Density: Not determined. · Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

Product is not selfigniting. · Auto-ignition temperature:

· Explosive properties: Not determined. · Evaporation rate Not determined.

· Information with regard to physical hazard

classes

· Explosives Not applicable · Flammable gases Not applicable · Aerosols Not applicable · Oxidising gases Not applicable · Gases under pressure Not applicable · Flammable liquids Not applicable · Flammable solids Not applicable · Self-reactive substances and mixtures Not applicable · Pyrophoric liquids Not applicable · Pyrophoric solids Not applicable Self-heating substances and mixtures Not applicable

· Substances and mixtures, which emit flammable gases in contact with water Not applicable · Oxidising liquids Not applicable · Oxidising solids Not applicable · Organic peroxides Not applicable Not applicable · Corrosive to metals · Desensitised explosives Not applicable

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

(Cont. on page 6)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent B

(Cont. from page 5)

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid See "Fire Fighting measures".
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

#### 1310-58-3 potassium hydroxide

Oral LD50 273 mg/kg (rat)

· Skin corrosion/irritation

Causes severe skin burns and eye damage.

- · Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

### 1310-58-3 potassium hydroxide

LC50/96 h | 50-165 mg/l (fish)

EC50/48 h 30-1,000 mg/l (daphnia)

- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

(Cont. on page 7)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent B

(Cont. from page 6)

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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

Contact waste processors for recycling information.

- · Uncleaned packaging:
- · Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1814
<ul><li>14.2 UN proper shipping name</li><li>ADR</li><li>IMDG, IATA</li></ul>	1814 POTASSIUM HYDROXIDE SOLUTION POTASSIUM HYDROXIDE SOLUTION

- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



· Class	8 Corrosive substances.
. Lahal	0

· 14.4 Packing group

· ADR, IMDG, IATA

• 14.5 Environmental hazards: Not applicable.

• 14.6 Special precautions for user Warning: Corrosive substances.

· Hazard identification number (Kemler code): 80

EMS Number: F-A,S-B
 Segregation groups Alkalis
 Stowage Category A

(Cont. on page 8)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent B

	(Cont. from page
· Segregation Code	SG35 Stow "separated from" SGG1-acids
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
<ul><li>ADR</li><li>Limited quantities (LQ)</li><li>Excepted quantities (EQ)</li></ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
<ul><li>Transport category</li><li>Tunnel restriction code</li></ul>	2 E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
· UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION 8, II

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

· Creation Date 13.08.2019

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

(Cont. on page 9)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent B

(Cont. from page 8)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals – Category 1 Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1

\* Data modified compared to previous version.

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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

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

- · 1.1 Product identifier
- · Trade name: LabAssay™ Ammonia / Chromogen reagent C
- Article number: 633-51761(D)
- · Registration number

Registration numbers of the individual components: see section 3.2, if applicable.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation: Laboratory chemicals
- · Uses advised against

Only for professional use.

Do not use for private purposes (household).

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr. 12 41468 Neuss Deutschland

Tel: +49 (0) 2131-311-0 Fax: +49 (0) 2131-311 100

- · Further information obtainable from: msds\_eu@fujifilm.com
- 1.4 Emergency telephone number: +49 (0) 2131-311-0 (8h-16h)

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

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard-determining components of labelling:

potassium carbonate

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

(Cont. on page 2)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent C

(Cont. from page 1)

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash face thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

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

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:			
Ī	CAS: 584-08-7 potassium carbonate		20-40%
	EINECS: 209-529-3	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Ī		sodium hypochlorite, solution	≥0.25-<1%
	EINECS: 231-668-3	Skin Corr. 1B, H314; Eye Dam. 1, H318;  Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1), EUH031 Specific concentration limit: EUH031: C ≥ 5 %	

· Additional information: For the wording of the listed hazard phrases refer to section 16.

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

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed Causes serious eye irritation.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

(Cont. on page 3)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent C

(Cont. from page 2)

- · For safety reasons unsuitable extinguishing agents: None.
- · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

· 6.1 Personal precautions, protective equipment and emergency procedures

Remove persons from danger area.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 6.4 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.

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

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Protect from frost.

Keep container tightly sealed.

- · Storage class: 12
- · 7.3 Specific end use(s) No further relevant information available.

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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent C

(Cont. from page 3)

#### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working. Storing food in the working area is prohibited.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

#### · Material of gloves

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: butyl rubber (thickness  $\geq 0.36$  mm, breakthrough time > 480 min) or neoprene (thickness  $\geq 0.65$  mm, breakthrough time > 240 min).

· Eye/face protection



Safety glasses

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

Body protection: Protective work clothing

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

- · 9.1 Information on basic physical and chemical properties
- · General Information

· Physical state Flu

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

**boiling range** Undetermined.

(Cont. on page 5)





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### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent C

(Cont. from page 4)

· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable. · Ignition temperature: Not determined. · Decomposition temperature: Not determined.

· pH at 20 °C >11

· Viscosity:

Kinematic viscosity Not determined. · Dynamic: Not determined.

· Solubility

· water: Fully miscible.

· Partition coefficient n-octanol/water (log

Not determined. value) · Vapour pressure: Not determined.

Density and/or relative density

· Density: Not determined. · Relative density Not determined. · Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Not determined. · Evaporation rate Not determined.

· Information with regard to physical hazard

classes

· Explosives Not applicable · Flammable gases Not applicable · Aerosols Not applicable · Oxidising gases Not applicable · Gases under pressure Not applicable · Flammable liquids Not applicable · Flammable solids Not applicable · Self-reactive substances and mixtures Not applicable · Pyrophoric liquids Not applicable · Pyrophoric solids Not applicable Self-heating substances and mixtures Not applicable

· Substances and mixtures, which emit

flammable gases in contact with water Not applicable Not applicable · Oxidising liquids · Oxidising solids Not applicable · Organic peroxides Not applicable · Corrosive to metals Not applicable · Desensitised explosives Not applicable





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent C

(Cont. from page 5)

### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid

See "Fire Fighting measures".

Protect from heat and direct sunlight.

- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

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

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC5	0 valu	es relevant for classification:		
584-08-	7 pota	ssium carbonate		
Oral	LD50	2,000 mg/kg (rat)		
7681-52-9 sodium hypochlorite, solution				
Oral	LD50	8,800 mg/kg (rat)		
Dermal	LD50	>10,000 mg/kg (rabbit)		

#### Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye irritation.

- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure

May cause respiratory irritation.

- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity:

### 7681-52-9 sodium hypochlorite, solution

LC50/96 h 0.03-0.19 mg/l (Oncorhynchus mykiss)

(Cont. on page 7)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent C

(Cont. from page 6)

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Harmful to aquatic organisms

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation

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

Contact waste processors for recycling information.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

· 14.1 UN number or ID number			
· ADR, IMDG, IATA	Not applicable		
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Not applicable		
· 14.3 Transport hazard class(es)			
· ADR, ADN, IMDG, IATA			
· Class	Not applicable		
· 14.4 Packing group			
· ADR, IMDG, IATA	Not applicable		
· 14.5 Environmental hazards:	Not applicable.		
· 14.6 Special precautions for user	Not applicable.		





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Chromogen reagent C

(Cont. from page 7)

· 14.7 Maritime transport in bulk according to

**IMO instruments** Not applicable.

· UN "Model Regulation": Not applicable

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

· Creation Date 13.08.2019

#### · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

\* Data modified compared to previous version.





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

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

- · 1.1 Product identifier
- · Trade name: LabAssay™ Ammonia / Standard Solution
- Article number: 633-51761(E)
- · Registration number

Registration numbers of the individual components: see section 3.2, if applicable.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation: Laboratory chemicals
- · Uses advised against

Only for professional use.

Do not use for private purposes (household).

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr. 12 41468 Neuss Deutschland

Tel: +49 (0) 2131-311-0 Fax: +49 (0) 2131-311 100

- · Further information obtainable from: msds\_eu@fujifilm.com
- 1.4 Emergency telephone number: +49 (0) 2131-311-0 (8h-16h)

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

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the GB CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Not applicable
- · Hazard pictograms Not applicable
- · Signal word Not applicable
- · Hazard statements Not applicable
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

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

- · 3.2 Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Not applicable
- · Additional information: For the wording of the listed hazard phrases refer to section 16.

EN -





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Standard Solution

(Cont. from page 1)

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

- $\cdot$  4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 6.4 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.

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

· 7.1 Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection: No special measures required.

(Cont. on page 3)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Standard Solution

(Cont. from page 2)

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Protect from frost.
- · Storage class: 12
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

Storing food in the working area is prohibited.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

#### · Material of gloves

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq 0.38$  mm, breakthrough time > 480 min).

· Eye/face protection



Safety glasses

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

· Body protection: Protective work clothing

ΕN





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Standard Solution

(Cont. from page 3)

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

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range Undetermined.
• Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Ignition temperature: Not determined.
Decomposition temperature: Not determined.
pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

Solubility

• water: Not determined.

· Partition coefficient n-octanol/water (log

value) Not determined.
• Vapour pressure: Not determined.

· Density and/or relative density

Density: Not determined.
 Relative density Not determined.
 Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

• Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Not determined.Evaporation rate Not determined.

Information with regard to physical hazard classes

· Explosives Not applicable · Flammable gases Not applicable · Aerosols Not applicable Not applicable · Oxidising gases · Gases under pressure Not applicable · Flammable liquids Not applicable · Flammable solids Not applicable Self-reactive substances and mixtures Not applicable · Pyrophoric liquids Not applicable · Pyrophoric solids Not applicable

(Cont. on page 5)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Standard Solution

(Cont. from page 4)

Self-heating substances and mixtures	Not applicable
<ul> <li>Substances and mixtures, which emit</li> </ul>	
flammable gases in contact with water	Not applicable
· Oxidising liquids	Not applicable
· Oxidising solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid See "Fire Fighting measures".
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: SnO2

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

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Cont. on page 6)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Standard Solution

(Cont. from page 5)

- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes: Not hazardous for water.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN number or ID number · ADR, IMDG, IATA	Not applicable	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, IMDG, IATA</li> </ul>	Not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Not applicable	
· 14.4 Packing group · ADR, IMDG, IATA	Not applicable	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according to IMO instruments  Not applicable.		
· UN "Model Regulation":	Not applicable	

### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

EN-





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Standard Solution

(Cont. from page 6)

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Creation Date 13.08.2019
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

\* Data modified compared to previous version.

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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

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

- · 1.1 Product identifier
- · Trade name: LabAssay™ Ammonia / Dilute solution for standard
- Article number: 633-51761(F)
- · Registration number

Registration numbers of the individual components: see section 3.2, if applicable.

- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the preparation: Laboratory chemicals
- · Uses advised against

Only for professional use.

Do not use for private purposes (household).

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr. 12 41468 Neuss Deutschland

Tel: +49 (0) 2131-311-0 Fax: +49 (0) 2131-311 100

- · Further information obtainable from: msds\_eu@fujifilm.com
- 1.4 Emergency telephone number: +49 (0) 2131-311-0 (8h-16h)

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

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the GB CLP regulation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Not applicable
- · Hazard pictograms Not applicable
- · Signal word Not applicable
- · Hazard statements Not applicable
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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

- · 3.2 Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Not applicable
- · Additional information: For the wording of the listed hazard phrases refer to section 16.

EN -





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Dilute solution for standard

(Cont. from page 1)

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

- · 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · 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: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 6.4 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.

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

· 7.1 Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection: No special measures required.

(Cont. on page 3)





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Dilute solution for standard

(Cont. from page 2)

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Store in cool, dry conditions in well sealed receptacles.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions: Protect from frost.
- · Storage class: 12
- · 7.3 Specific end use(s) No further relevant information available.

### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

Storing food in the working area is prohibited.

- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective gloves

#### · Material of gloves

Use chemical resistant gloves. In case of prolonged immersion or frequently repeated contact use gloves made of the materials: nitrile rubber (thickness  $\geq 0.38$  mm, breakthrough time > 480 min).

· Eye/face protection



Safety glasses

The protective safety glasses to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN166.

· Body protection: Protective work clothing

- EN





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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.01.2023 Version number 1.0 Revision: 13.08.2019

Trade name: LabAssay™ Ammonia / Dilute solution for standard

(Cont. from page 3)

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

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid

· Colour: According to product specification

Odour: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and

boiling range Undetermined.
• Flammability Not applicable.

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Ignition temperature: Not determined.
Decomposition temperature: Not determined.
pH Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

Solubility

• water: Not determined.

· Partition coefficient n-octanol/water (log

value) Not determined.
• Vapour pressure: Not determined.

· Density and/or relative density

Density: Not determined.
Relative density Not determined.
Vapour density Not determined.

· 9.2 Other information

· Appearance:

· Form: Liquid

• Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Not determined.Evaporation rate Not determined.

Information with regard to physical hazard classes

· Explosives Not applicable · Flammable gases Not applicable · Aerosols Not applicable Not applicable · Oxidising gases · Gases under pressure Not applicable · Flammable liquids Not applicable · Flammable solids Not applicable Self-reactive substances and mixtures Not applicable · Pyrophoric liquids Not applicable · Pyrophoric solids Not applicable

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<ul> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> <li>Oxidising liquids</li> <li>Oxidising solids</li> <li>Organic peroxides</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		(00 page //
<ul> <li>Oxidising liquids</li> <li>Oxidising solids</li> <li>Organic peroxides</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		Not applicable
<ul><li>Oxidising solids</li><li>Organic peroxides</li><li>Not applicable</li></ul>	flammable gases in contact with water	Not applicable
Organic peroxides Not applicable	· Oxidising liquids	Not applicable
• •	· Oxidising solids	Not applicable
	· Organic peroxides	Not applicable
· Corrosive to metals Not applicable	· Corrosive to metals	Not applicable
· Desensitised explosives Not applicable	· Desensitised explosives	Not applicable

### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid

See "Fire Fighting measures".

Protect from heat and direct sunlight.

- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: SnO2

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

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.

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- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · 12.7 Other adverse effects
- · Additional ecological information:
- · General notes: Not hazardous for water.

### **SECTION 13: Disposal considerations**

- · 13.1 Waste treatment methods
- · Recommendation Smaller quantities can be disposed of with household waste.
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information		
· 14.1 UN number or ID number · ADR, IMDG, IATA	Not applicable	
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Not applicable	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Not applicable	
· 14.4 Packing group · ADR, IMDG, IATA	Not applicable	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according to IMO instruments  Not applicable.		
· UN "Model Regulation":	Not applicable	

#### **SECTION 15: Regulatory information**

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

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· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Creation Date 13.08.2019
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

· \* Data modified compared to previous version.

- ENI