Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name ID Test Kit

Product Contents 1 x 10mL Diluent

1 x 5mg Indicator A 1 x 5mg Indicator B 1 x 2mL Agent A

1 x 2mL Agent B

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

Relevant Identified Uses Product for analytical use

Uses Advised Against Not described

1.3 Details of the supplier of the safety data sheet

Company X
Telephone X

1.4 Emergency telephone number

Emergency Phone Number X

Section 2: Hazard identification

2.0 Classification of the complete product

GHS Classification Flammable liquids (Category 2), H225

Corrosive to metals (Category 1), H290 Acute toxicity, Oral (Category 4), H302 Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

Eye irritation (Category 2A), H319

Specific target organ toxicity – single exposure (Category 3), central nervous system, H336

Short-term (acute aquatic hazard) (Category 3),

H402

2.1 Classification of the substance or mixture

10mL Diluent

GHS Classification Flammable liquids (Category 2), H225

Corrosive to metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

Eye irritation (Category 2A), H319

Specific target organ toxicity – single exposure (Category 3), central nervous system, H336

Short-term (acute aquatic hazard) (Category 3),

H402

5mg Indicator A

GHS Classification Acute toxicity, Oral (Category 4), H302

5mg Indicator B

GHS Classification Corrosive to metals (Category 1), H290

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1A), H314

Serious eye damage (Category 1), H318

Short-term (acute aquatic hazard) (Category 3),

H402

2mL Agent A

GHS Classification Corrosive to metals (Category 1), H290

Skin corrosive (Category 1A), H314

Serious eye damage (Category 1), H318

2mL Agent B

GHS Classification Flammable liquids (Category 2), H225

Eye irritation (Category 2A), H319

Specific target organ toxicity – single exposure (Category 3), central nervous system, H336

2.2 Label elements

10mL Diluent

Pictogram

Danger

Signal word

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H402	Harmful to aquatic life
Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved

waste disposal plant.

5mg Indicator A

Pictogram



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

Precautionary statement(s)

P264 Wash skin thoroughly after handling

P270 Do not eat, drink or smoke when using this

product

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if

you feel unwell. Rinse mouth.

P501 Dispose of contents/ container to an approved

waste disposal plant.

5mg Indicator B

Pictogram



Signal word Danger

Hazard statement(s)

H290 May be corrosive to metals

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H402 Harmful to aquatic life

Precautionary statement(s)

P234 Keep only in original packaging.

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
2mL Agent A	
Pictogram	

Signal word

Hazard statement(s)

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Danger

Precautionary statement(s)

P234 Keep only in original packaging.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

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

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P501 Dispose of contents/ container to an approved

waste disposal plant.

2mL Agent B

Pictogram



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving

equipment.

P241 Use explosion-proof electrical/ ventilating/

lighting/ equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

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

spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several

minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P370 + P378 In case of fire: Use dry sand, dry chemical, or

alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved

waste disposal plant.

2.3 Other hazards

10mL Diluent May form explosive peroxides

2mL Agent B

5mg Indicator A None

5mg Indicator B 2mL Agent A

Section 3: Composition/Information on Ingredients

3.1 Substances or 3.2 Mixtures

10mL Diluent

Chemical	2-Propanol
Component	2-Propanol

Classification Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319,

H336

Synonyms sec-Propyl alcohol, Isopropyl alcohol, Isopropanol

Concentration 100% CAS No. 67-63-0 Formula C_3H_8O

Chemical Potassium hydroxide

Component Caustic potash

Classification Met. Corr. 1; Acute Tox. 4; Skin Corr. 1A; Eye Dam.

1; Aquatic Acute 3; H290, H302, H314, H318,

H402

Concentration 0.005M in 2-Propanol

CAS No. 1310-58-3

Formula HKO

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

Classification Acute Tox. 4; H302

Synonyms 4-Benzoylamino-2,5-diethoxybenzenediazonium

chloridehemi(zinc chloride) salt,

4-Amino-2,5-diethoxybenzanilide diazotatedzinc

double salt

Concentration 100%

CAS No. 5486-84-0

Formula $C_{17}H_{18}CIN_3O_3 \cdot 0.5ZnCl_2$

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash

Classification Met. Corr. 1; Acute Tox. 4; Skin Corr. 1A; Eye Dam.

1; Aquatic Acute 3; H290, H302, H314, H318,

H402

Concentration 100%

CAS No. 1310-58-3

Formula HKO

2mL Agent A

Chemical Sulfuric acid

Component Sulfuric acid

Classification Met. Corr. 1; Skin Corr. 1A; Eye Dam. 1; H290,

H314, H318

Concentration 1.7M in Water

CAS No. 7664-93-9

Formula H₂O₄S

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol

Classification Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3; H225, H319,

H336

Synonyms sec-Propyl alcohol, Isopropyl alcohol, Isopropanol

Concentration 100%

CAS No. 67-63-0 Formula C_3H_8O

Section 4: First aid measures

4.1 Description of first aid measures

4.1.1 General advice

All reagents Consult a physician. Show this safety data sheet

to the doctor in attendance. Move out of

dangerous area.

4.1.2 If inhaled

All reagents If breathed in, move person into fresh air. If not

breathing, give artificial respiration. Consult a

physician.

4.1.3 In case of skin contact

10mL Diluent Take off contaminated clothing and shoes
5mg Indicator B immediately. Wash off with soap and plenty of

2mL Agent A water. Consult a physician.

5mg Indicator A Wash off with soap and plenty of water. Consult a

2mL Agent B physician.

4.1.4 In case of eye contact

10mL Diluent Rinse thoroughly with plenty of water for at least 5mg Indicator B 15 minutes and consult a physician. Continue 2mL Agent A rinsing eyes during transport to hospital.

2mL Agent B Rinse thoroughly with plenty of water for at least

15 minutes and consult a physician.

5mg Indicator A Flush eyes with water as a precaution

4.1.5 If swallowed

All reagents Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Rinse mouth

with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

All reagents The most important known symptoms and effects

are described in the labelling (see section 2.2)

and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

All reagents No data available

Section 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

10mL Diluent Dry powder, dry sand.

2mL Agent B

5mg Indicator A Use water spray, alcohol-resistant foam, dry

5mg Indicator B chemical or carbon dioxide.

2mL Agent A

5.1.2 Unsuitable extinguishing media

10mL Diluent Do NOT use water jet.

2mL Agent B

5mg Indicator A No data available

5mg Indicator B 2mL Agent A

5.2 Special hazards arising from the substance or mixture

10mL Diluent

Chemical **2-Propanol**Component 2-Propanol
CAS-No. 67-63-0

Carbon oxides

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

Potassium oxides

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

Carbon oxides, Nitrogen oxides (NOx), Hydrogen

chloride gas, Zinc/zinc oxides

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

Potassium oxides

2mL Agent A

Chemical Sulfuric acid

Component Sulfuric acid CAS-No. 7664-93-9

Sulphur oxides

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

Carbon oxides

5.3 Advice for firefighters

All reagents Wear self-contained breathing apparatus for

firefighting if necessary.

5.4 Additional Information

10mL Diluent Use water spray to cool unopened containers.

2mL Agent B

5mg Indicator A No data available

5mg Indicator B 2mL Agent A

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

10mL Diluent Use personal protective equipment. Avoid

2mL Agent B breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of

> vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

5mg Indicator A Use personal protective equipment. Avoid dust

5mg Indicator B formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

Wear respiratory protection. Avoid breathing 2mL Agent A

> vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal

protection see section 8.

6.2 Environmental precautions

10mL Diluent Prevent further leakage or spillage if safe to do so.

2mL Agent B Do not let product enter drains.

5mg Indicator A Do not let product enter drains.

2mL Agent A

5mg Indicator B Prevent further leakage or spillage if safe to do so.

Do not let product enter drains. Discharge into

the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

10mL Diluent Contain spillage, and then collect with

2mL Agent B non-combustible absorbent material, (e.g. sand,

earth, diatomaceous earth, vermiculite) and place in container for disposal according to local /

national regulations (see section 13).

5mg Indicator A Pick up and arrange disposal without creating 5mg Indicator B

dust. Sweep up and shovel. Keep in suitable,

closed containers for disposal.

Soak up with inert absorbent material and 2mL Agent A

dispose of as hazardous waste. Keep in suitable,

closed containers for disposal.

6.4 Reference to other sections

All reagents For disposal see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

10mL Diluent Avoid contact with skin and eyes. Avoid inhalation

2mL Agent B of vapour or mist. Use explosion-proof

equipment. Keep away from sources of ignition -No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see

section 2.2.

5mg Indicator A Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust

of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For

precautions see section 2.2.

2mL Agent A Avoid inhalation of vapour or mist. For

precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

10mL Diluent Keep container tightly closed in a dry and 2mL Agent B well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage. Handle and store under inert gas. Hygroscopic. Storage class (TRGS

510): 3: Flammable liquids

5mg Indicator A Keep container tightly closed in a dry and

well-ventilated place. Recommended storage temperature -20 °C. Light sensitive. Keep in a dry place. Storage class (TRGS 510): 11: Combustible

Solids

5mg Indicator B Keep container tightly closed in a dry and

well-ventilated place. Handle under nitrogen, protect from moisture. Store under nitrogen. strongly hygroscopic. Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous

materials

2mL Agent A Keep container tightly closed in a dry and

well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous

materials

7.3 Specific end use(s)

All reagents Apart from the uses mentioned in section 1.2, no

other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1 Control parameters

10mL Diluent

Chemical2-PropanolComponent2-PropanolCAS-No.67-63-0

Chemical Potassium hydroxide

Component Caustic potash CAS-No. 1310-58-3

Derived No Effect Level (DNEL)

Application AreaExposure routesHealth effectValueWorkersInhalationLong-term local effects1 mg/m3ConsumersInhalationLong-term local effects1 mg/m3

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash CAS-No. 1310-58-3

Derived No Effect Level (DNEL)

Application AreaExposure routesHealth effectValueWorkersInhalationLong-term local effects1 mg/m3ConsumersInhalationLong-term local effects1 mg/m3

2mL Agent A

Chemical Sulfuric acid
Component Sulfuric acid
CAS-No. 7664-93-9

Derived No Effect Level (DNEL)

<u>Application Area</u> <u>Exposure routes</u> <u>Health effect</u> <u>Value</u>

Workers Inhalation Acute local effects 0.1 mg/m3

Workers Inhalation Long-term local effects 0.05 mg/m3

Predicted No Effect Concentration (PNEC)

Value Compartment

0.00025 mg/l Marine water 0.0025 mg/l Fresh water Marine sediment 0.002 mg/kg 0.002 mg/kg Fresh water sediment 8.8 mg/l

Onsite sewage treatment plant

2mL Agent B

Chemical 2-Propanol Component 2-Propanol CAS-No. 67-63-0

8.2 Exposure controls

8.2.0 Appropriate engineering controls

Handle in accordance with good industrial All reagents

hygiene and safety practice. Wash hands before

breaks and at the end of workday.

8.2.1 Personal protective equipment: Eye/face protection

10mL Diluent Face shield and safety glasses. Use equipment for

5mg Indicator B eye protection tested and approved under

2mL Agent B appropriate government standards such as NIOSH

(US) or EN 166(EU).

Safety glasses with side-shields conforming to 5mg Indicator A

EN166(EU). Use equipment for eye protection

tested and approved under appropriate

government standards such as NIOSH (US) or EN

166(EU).

2mL Agent A Tightly fitting safety goggles. Faceshield (8-inch

minimum). Use equipment for eye protection

tested and approved under appropriate

government standards such as NIOSH (US) or EN

166(EU).

8.2.2 Personal protective equipment: Skin protection

All reagents Handle with gloves. Gloves must be inspected

prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid

skin contact with this product. Dispose of

contaminated gloves after use in accordance with

applicable laws and good laboratory practices. Wash and dry hands.

8.2.3 Personal protective equipment: Body protection

10mL Diluent Impervious clothing, flame retardant antistatic 2mL Agent B protective clothing. The type of protective

equipment must be selected according to the concentration and amount of the dangerous

substance at the specific workplace.

5mg Indicator A

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.2.4 Personal protective equipment: Respiratory protection

10mL DiluentWhere risk assessment shows air-purifying2mL Agent Arespirators are appropriate use a full-face2mL Agent Brespirator with multi-purpose combination (US)

or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and

components tested and approved under appropriate government standards such as NIOSH

(US) or CEN (EU).

5mg Indicator A For nuisance exposures use type P95 (US) or type

P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

5mg Indicator B Where risk assessment shows air-purifying

respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.2.5 Personal protective equipment: Control of environmental exposure

10mL DiluentPrevent further leakage or spillage if safe to do so.5mg Indicator BDo not let product enter drains. Discharge into

the environment must be avoided.

5mg Indicator A Do not let product enter drains.

2mL Agent A

2mL Agent B Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Section 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties

10mL Diluent

Chemical **2-Propanol**

Component 2-Propanol CAS-No. 67-63-0

Appearance Form: liquid

Colour: colourless

Odour Alcohol-like

Odour threshold No data available

pH Neutral at 20 °C (68 °F)

Melting point/freezing point Melting point/range: -89.5 °C (-129.1 °F)

Initial boiling point and boiling point range 82 °C (180 °F)

Flash point 12.0 °C (53.6 °F) – closed cap

Evaporation rate 3.0

Flammability (solid, gas) No data available

Lower explosion limit: 2 %(V)

Vapour pressure 43 hPa at 20 °C (68 °F)

Vapour density 2.07

Relative density 0.785 g/L at 25 °C (77 °F)

Water solubility Soluble

Partition coefficient: n-octanol/water Log Pow: 0.05 – Bioaccumulation is not expected

Auto-ignition temperature 425.0 °C (797.0 °F)

Decomposition temperature Distillable in an undecomposed state at normal

pressure.

Viscosity No data available

Explosive properties No data available

Oxidizing properties No data available

Chemical Potassium hydroxide

Component Caustic potash
CAS-No. 1310-58-3
Appearance Form: solid

Colour: colourless

Odour Odourless

Odour threshold No data available

pH Ca. 13.5 at 5.6 g/L at 25 °C (77 °F)

Melting point/freezing point

Melting point: 380 °C (716 °F)

Initial boiling point and boiling point range

1,327 °C (2,421 °F) at 1,013 hPa

Flash point No data available
Evaporation rate No data available
Flammability (solid, gas) Does not ignite

Upper/lower flammability or explosive limits No data available

Vapour pressure 1 hPa at 719 °C (1326 °F)

Vapour density No data available

Relative density $2.04 \text{ g/cm3 at } 20 ^{\circ}\text{C } (68 ^{\circ}\text{F})$ Water solubility $1,130 \text{ g/L at } 20 ^{\circ}\text{C } (68 ^{\circ}\text{F})$

Partition coefficient: n-octanol/water Not applicable for inorganic substances

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

Explosive properties

No data available

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

Appearance Form: powder

Odour No data available

Odour threshold No data available

pH No data available

Melting point/freezing point Melting point: 157 °C (315 °F)

Initial boiling point and boiling point range No data available Flash point No data available Evaporation rate No data available Flammability (solid, gas) No data available Upper/lower flammability or explosive limits No data available Vapour pressure No data available Vapour density No data available No data available Relative density Water solubility No data available Partition coefficient: n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available **Explosive properties** No data available Oxidizing properties No data available

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash CAS-No. 1310-58-3

Appearance Form: solid

Colour: colourless

Odour Odourless

Odour threshold No data available

pH Ca. 13.5 at 5.6 g/L at 25 °C (77 °F)

Melting point/freezing point

Melting point: 380 °C (716 °F)

Initial boiling point and boiling point range

1,327 °C (2,421 °F) at 1,013 hPa

Flash point

Evaporation rate

No data available

Flammability (solid, gas)

Does not ignite

Upper/lower flammability or explosive limits

No data available

Vapour pressure 1 hPa at 719 °C (1326 °F)

Vapour density No data available

Relative density 2.04 g/cm3 at 20 °C (68 °F)

Water solubility 1,130 g/L at 20 °C (68 °F)

Partition coefficient: n-octanol/water Not applicable for inorganic substances

Auto-ignition temperature

Decomposition temperature

No data available

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

2mL Agent A

ChemicalSulfuric acidComponentSulfuric acidCAS-No.7664-93-9

Appearance Form: clear, liquid
Odour No data available
Odour threshold No data available

pH 1.2 at 5 g/L

Melting point/freezing point 3 °C (37 °F)

Initial boiling point and boiling point range 290 °C (554 °F)

Flash point No data available

Evaporation rate No data available

Flammability (solid, gas) No data available

Upper/lower flammability or explosive limits No data available

Vapour pressure 1.33 hPa at 145.8 °C (294.4 °F)

Vapour density 3.39 - (Air = 1.0)

Relative density 1.84 g/cm3 at 25 °C (77 °F)

Water solubility Soluble

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol CAS-No. 67-63-0

Appearance Form: liquid

Colour: colourless

Odour Alcohol-like

Odour threshold No data available

pH Neutral at 20 °C (68 °F)

Melting point/freezing point Melting point/range: -89.5 °C (-129.1 °F)

Initial boiling point and boiling point range 82 °C (180 °F)

Flash point 12.0 °C (53.6 °F) – closed cap

Evaporation rate 3.0

Flammability (solid, gas)

No data available

Lower explosion limit: 2 %(V)

Vapour pressure 43 hPa at 20 °C (68 °F)

Vapour density 2.07

Relative density 0.785 g/L at 25 °C (77 °F)

Water solubility Soluble

Partition coefficient: n-octanol/water Log Pow: 0.05 – Bioaccumulation is not expected

Auto-ignition temperature 425.0 °C (797.0 °F)

Decomposition temperature Distillable in an undecomposed state at normal

pressure.

Viscosity

No data available

Explosive properties

No data available

Oxidizing properties

No data available

9.2 Other information

10mL Diluent

No data available

5mg Indicator A

No data available

5mg Indicator B

Bulk density 1,300 kg/m3

2mL Agent A

Surface tension 55.1 mN/m at 20 °C (68 °F)

Relative vapour density 3.39 - (Air = 1.0)

2mL Agent B

Minimum ignition energy 0.65 mJ

Conductivity $< 0.1 \,\mu\text{S/cm}$

Surface tension 20.8 mN/m at 25.0 °C (77.0 °F)

Relative vapour density 2.07

Section 10: Stability and reactivity

10.1 Reactivity

All reagents No data available

10.2 Chemical stability

10mL Diluent Reacts with air to form peroxides.

2mL Agent B Test for peroxide formation before distillation or

evaporation. Test for peroxide formation or discard after 1 year. Stable under recommended storage conditions. Stable under recommended

storage conditions.

5mg Indicator A Stable under recommended storage conditions.

5mg Indicator B 2mL Agent A

10.3 Possibility of hazardous reactions

10mL Diluent Vapours may form explosive mixture with air.

2mL Agent B

5mg Indicator A No data available

5mg Indicator B 2mL Agent A

10.4 Conditions to avoid

10mL Diluent Heat, flames and sparks.

2mL Agent B

5mg Indicator A No data available

5mg Indicator B 2mL Agent A

10.5 Incompatible materials

10mL Diluent No data available

5mg Indicator A Strong oxidizing agents, strong bases

5mg Indicator B Nitro compounds, organic materials, magnesium,

copper, water. Reacts violently with: Metals, light metals. Contact with aluminum, tin and zinc

liberates hydrogen gas. Contact with n formation of shock-sensitive salts. Vigorous reaction with: Alkali metals, halogens, azides, anhydrides, strong

oxidizing agents

2mL Agent A Bases, halides, organic materials, carbides,

> fulminates, nitrates, picrates, cyanides, chlorates, alkali halides, zinc salts, permanganates (for example potassium permanganate), hydrogen peroxide, azides, perchlorates, nitromethane,

phosphorous. Reacts violently with:

cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(III) oxide, powdered metals, strong oxidizing agents

2mL Agent B Strong oxidizing agents, acid anhydrides, aluminium, halogenated compounds, acids

10.6 Hazardous decomposition products

10mL Diluent

Chemical 2-Propanol Component 2-Propanol CAS-No. 67-63-0

Hazardous decomposition products formed under Carbon oxides

fire conditions

Other decomposition products No data available

Potassium hydroxide Chemical

Component Caustic potash CAS-No. 1310-58-3

Hazardous decomposition products formed under

fire conditions

Potassium oxides

No data available Other decomposition products

5mg Indicator A

Fast Blue BB Salt hemi(zinc chloride) salt Chemical

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

Hazardous decomposition products formed under

fire conditions

Carbon oxides, nitrogen oxides (NOx), hydrogen

chloride gas, zinc/zinc oxides

Other decomposition products No data available

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash CAS-No. 1310-58-3

Hazardous decomposition products formed under

fire conditions

Potassium oxides

Other decomposition products No data available

2mL Agent A

Chemical **Sulfuric acid** Component Sulfuric acid CAS-No. 7664-93-9

Hazardous decomposition products formed under

fire conditions

Sulphur oxides

Other decomposition products No data available

2mL Agent B

Chemical 2-Propanol 2-Propanol Component CAS-No. 67-63-0

Hazardous decomposition products formed under Carbon oxides

fire conditions

Other decomposition products No data available

Section 11: Toxicological information

11.1 Information on toxicological effects

10mL Diluent

Chemical 2-Propanol 2-Propanol Component CAS-No. 67-63-0

Acute toxicity LD50 Oral - Rat - 5,840 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h -

37.5 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - 12,800 mg/kg

Remarks: (RTECS)

Skin corrosion/irritation Skin - Rabbit

> Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation Eyes - Rabbit

Result: Eye irritation (OECD Test Guideline 405)

(Regulation (EC) No 1272/2008, Annex VI)

Respiratory or skin sensitisation Buehler Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity Ames test

Salmonella typhimurium

Result: negative

In vitro mammalian cell gene mutation test

Chinese hamster ovary cells

Result: negative

OECD Test Guideline 474

Mouse - male and female - Bone marrow

Result: negative

Carcinogenicity This product is or contains a component that is

not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA

classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity No data available

Specific target organ toxicity – single exposure Inhalation, Oral - May cause drowsiness or

dizziness. - Central nervous system Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute inhalation toxicity - Central nervous system

Specific target organ toxicity – repeated exposure No data available

Aspiration hazard No data available
Additional information RTECS: NT8050000

Central nervous system depression. Prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness. Overexposure

may cause mild, reversible liver

effects. Aspiration may lead to: lung oedema,

pneumonia.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After absorption: headache, dizziness, inebriation, unconsciousness, narcosis.
After uptake of large quantities: Coma Handle in accordance with good industrial

hygiene and safety practice.

Kidney - Irregularities - Based on Human Evidence

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

Acute toxicity LD50 Oral - Rat - male - 333 mg/kg

(OECD Test Guideline 425)

Inhalation: Corrosive to respiratory system.

Dermal: No data available

Skin corrosion/irritation Skin - Rabbit

Result: Causes burns. Remarks: (IUCLID)

Serious eye damage/eye irritation Eyes - Rabbit

Result: Causes serious eye damage.

(OECD Test Guideline 405) Causes serious eye damage.

Respiratory or skin sensitisation Sensitisation test: - Guinea pig

Result: negative Remarks: (IUCLID)

Germ cell mutagenicity Ames test

S. typhimurium Result: negative

(ECHA)

In vitro mammalian cell gene mutation test

mouse lymphoma cells

Result: negative

Carcinogenicity IARC: No component of this product present at

levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure Acute oral toxicity - If ingested, severe burns of

the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Acute inhalation toxicity - burns of mucous membranes, cough, shortness of breath Possible damages: damage of respiratory tract

Specific target organ toxicity – repeated exposure

No data available

Aspiration hazard

No data available

Additional information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity IARC: No component of this product present at

levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity No data available

Specific target organ toxicity – single exposure No data available

Specific target organ toxicity – repeated exposure No data available

Aspiration hazard No data available

Additional information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

Acute toxicity LD50 Oral - Rat - male - 333 mg/kg

(OECD Test Guideline 425)

Inhalation: Corrosive to respiratory system.

Dermal: No data available

Skin corrosion/irritation Skin - Rabbit

Result: Causes burns. Remarks: (IUCLID)

Serious eye damage/eye irritation Eyes - Rabbit

Result: Causes serious eye damage.

(OECD Test Guideline 405) Causes serious eye damage.

Respiratory or skin sensitisation Sensitisation test: - Guinea pig

Result: negative Remarks: (IUCLID)

Germ cell mutagenicity Ames test

S. typhimurium Result: negative

(ECHA)

In vitro mammalian cell gene mutation test

mouse lymphoma cells

Result: negative

Carcinogenicity IARC: No component of this product present at

levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity No data available

Specific target organ toxicity – single exposure Acute oral toxicity - If ingested, severe burns of

the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. Acute inhalation toxicity - burns of mucous membranes, cough, shortness of breath Possible damages: damage of respiratory tract

Specific target organ toxicity – repeated exposure No data available

Aspiration hazard No data available

Additional information RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

2mL Agent A

ChemicalSulfuric acidComponentSulfuric acidCAS-No.7664-93-9

Acute toxicity LD50 Oral - Rat - male and female - 2,140 mg/kg

Remarks: (ECHA)

LC50 Inhalation - Mouse - male and female - 4 h -

0.85 mg/l

(OECD Test Guideline 403)

Inhalation: Corrosive to respiratory system.

Dermal: No data available

Skin corrosion/irritation Skin - Rabbit

Result: Extremely corrosive and destructive to

tissue.

Remarks: (IUCLID)

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitisation No data available

Germ cell mutagenicity Ames test

Salmonella typhimurium

Result: negative

(HSDB)

Carcinogenicity IARC: No component of this product present at

levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure No data available

Specific target organ toxicity – repeated exposure No data available

Aspiration hazard No data available

Additional information RTECS: WS5600000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin; spasm, inflammation and edema of the larynx; spasm, inflammation and edema of

the bronchi; pneumonitis; pulmonary edema; burning sensation; cough; wheezing; laryngitis; shortness of breath; headache; nausea; vomiting; pulmonary edema. Effects may be delayed.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

After inhalation of aerosols: damage to the affected mucous membranes.

After skin contact: severe burns with formation of scabs.

After eye contact: burns, corneal lesions.

After swallowing: severe pain (risk of perforation!), nausea, vomiting and diarrhoea.

After a latency period of several weeks possibly

pyloric stenosis.

Other dangerous properties can not be excluded. Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

Acute toxicity LD50 Oral - Rat - 5,840 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h -

37.5 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - 12,800 mg/kg

Remarks: (RTECS)

Skin corrosion/irritation Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation Eyes - Rabbit

Result: Eye irritation (OECD Test Guideline 405)

(Regulation (EC) No 1272/2008, Annex VI)

Respiratory or skin sensitisation Buehler Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity Ames test

Salmonella typhimurium

Result: negative

In vitro mammalian cell gene mutation test

Chinese hamster ovary cells

Result: negative

OECD Test Guideline 474

Mouse - male and female - Bone marrow

Result: negative

Carcinogenicity This product is or contains a component that is

not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA

classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Reproductive toxicity No data available

Specific target organ toxicity – single exposure Inhalation, Oral - May cause drowsiness or

dizziness. - Central nervous system Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Acute inhalation toxicity - Central nervous system

Specific target organ toxicity – repeated exposure No data available

Aspiration hazard No data available

Additional information RTECS: NT8050000

Central nervous system depression. Prolonged or repeated exposure can cause: nausea, headache, vomiting, narcosis, drowsiness. Overexposure

may cause mild, reversible liver

effects. Aspiration may lead to: lung oedema,

pneumonia.

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

After absorption: headache, dizziness, inebriation, unconsciousness, narcosis. After uptake of large quantities: Coma

Handle in accordance with good industrial

hygiene and safety practice.

Kidney - Irregularities - Based on Human Evidence

Section 12: Ecological information

12.1 Toxicity

10mL Diluent

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

Toxicity to fish

Flow-through test LC50 - Pimephales promelas (fathead minnow) - 9,640 mg/l - 96 h (OECD Test

Guideline 203)

Toxicity to daphnia and other aquatic

invertebrates

EC50 - Daphnia magna (Water flea) - 13,299 mg/l

- 48 h Remarks: (IUCLID)

Toxicity to algae

IC50 - Desmodesmus subspicatus (green algae) - >

1,000 mg/l – 72 h Remarks: (IUCLID)

Toxicity to bacteria EC5 - Pseudomonas putida -

1,050 mg/l - 16 h Remarks: (Lit.)

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

Toxicity to fish

LC50 - Gambusia affinis (Mosquito fish) - 80 mg/l -

96 h Remarks: (IUCLID)

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

No data available

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

Toxicity to fish

LC50 - Gambusia affinis (Mosquito fish) - 80 mg/l -

96 h Remarks: (IUCLID)

2mL Agent A

Chemical Sulfuric acid

Component Sulfuric acid

CAS-No. 7664-93-9

Toxicity to fish

Static test LC50 - Lepomis macrochirus (Bluegill sunfish) - > 16 - < 28 mg/l - 96 h Remarks: (ECHA)

Toxicity to daphnia and other aquatic

invertebrates

Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae

Static test ErC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l - 72 h (OECD Test

Guideline 201)

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

Toxicity to fish

Flow-through test LC50 - Pimephales promelas (fathead minnow) - 9,640 mg/l - 96 h (OECD Test

Guideline 203)

Toxicity to daphnia and other aquatic

invertebrates

EC50 - Daphnia magna (Water flea) - 13,299 mg/l

- 48 h Remarks: (IUCLID)

Toxicity to algae

IC50 - Desmodesmus subspicatus (green algae) - >

1,000 mg/l – 72 h Remarks: (IUCLID)

Toxicity to bacteria EC5 - Pseudomonas putida -

1,050 mg/l - 16 h Remarks: (Lit.)

12.2 Persistence and degradability

10mL Diluent

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

Biodegradability

Aerobic - Exposure time 5 d

Result: 53 % - Readily biodegradable. (Directive 67/548/EEC, Annex V, C.6)

Theoretical oxygen demand 2,400 mg/g Remarks: (Lit.)

Ratio BOD/ThBOD 49 % Remarks: (IUCLID)

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

The methods for determining the biological degradability are not applicable to inorganic

substances.

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

No data available

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

The methods for determining the biological degradability are not applicable to inorganic

substances.

2mL Agent A

Chemical Sulfuric acid
Component Sulfuric acid
CAS-No. 7664-93-9

The methods for determining the biological degradability are not applicable to inorganic

substances.

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

Biodegradability

Aerobic - Exposure time 5 d

Result: 53 % - Readily biodegradable. (Directive 67/548/EEC, Annex V, C.6)

Theoretical oxygen demand 2,400 mg/g Remarks: (Lit.)

Ratio BOD/ThBOD 49 % Remarks: (IUCLID)

12.3 Bioaccumulative potential

10mL Diluent No data available

5mg Indicator A 5mg Indicator B 2mL Agent A

2mL Agent B No bioaccumulation is to be expected (log Pow <=

4).

12.4 Mobility in soil

All reagents No data available

12.5 Results of PBT and vPvB assessment

All reagents PBT/vPvB assessment not available as chemical

safety assessment not required/not conducted

12.6 Other adverse effects

10mL Diluent

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

No data available

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

No data available

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

2mL Agent A

Chemical Sulfuric acid

Component Sulfuric acid

CAS-No. 7664-93-9

Biological effects:

Harmful effect due to pH shift. Caustic even in diluted form.

Does not cause biological oxygen deficit.

Endangers drinking-water supplies if allowed to enter soil and/or waters in large quantities.

Neutralisation possible in waste water treatment

plants.

Discharge into the environment must be avoided.

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

No data available

Section 13: Disposal considerations

13.1 Waste treatment methods

10mL Diluent

Product Contact a licensed professional waste disposal

service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is

highly flammable.

Contaminated Packaging Dispose of as unused product.

5mg Indicator A

Product Offer surplus and non-recyclable solutions to a

licensed disposal company.

Contaminated Packaging Dispose of as unused product.

5mg Indicator B

Product Offer surplus and non-recyclable solutions to a

licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and

scrubber.

Contaminated Packaging Dispose of as unused product.

2mL Agent A

Product Contact a licensed professional waste disposal

service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal

company.

Contaminated Packaging Dispose of as unused product.

2mL Agent B

Product Contact a licensed professional waste disposal

service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but

exert extra care in igniting as this material is

highly flammable.

Contaminated Packaging Dispose of as unused product.

Section 14: Transport information

10mL Diluent

Chemical **2-Propanol**

Component 2-Propanol CAS-No. 67-63-0

DOT (US) UN number: 1219

Class: 3

Packing group: II

Proper shipping name: Isopropanol

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG UN number: 1219

Class: 3

Packing group: II EMS-No: F-E, S-D

Proper shipping name: ISOPROPANOL

IATA UN number: 1219

Class: 3

Packing group: II

Proper shipping name: Isopropanol

Chemical Potassium hydroxide

Component Caustic potash

CAS-No. 1310-58-3

DOT (US) UN number: 1813

Class: 8

Packing group: II

Proper shipping name: Potassium hydroxide, solid

Reportable Quantity (RQ): 1000 lbs
Poison Inhalation Hazard: No

IMDG UN number: 1813

Class: 8

Packing group: II EMS-No: F-A, S-B

Proper shipping name: POTASSIUM HYDROXIDE,

SOLID

IATA UN number: 1813

Class: 8

Packing group: II

Proper shipping name: Potassium hydroxide, solid

5mg Indicator A

Chemical Fast Blue BB Salt hemi(zinc chloride) salt

Component 4-(Benzoylamino)-2,5-diethoxybenzenediazonium

tetrachlorozincate

CAS No. 5486-84-0

DOT (US)

IMDG

Not dangerous goods

Not dangerous goods

Not dangerous goods

5mg Indicator B

Chemical Potassium hydroxide

Component Caustic potash CAS-No. 1310-58-3

DOT (US) UN number: 1813

Class: 8

Packing group: II

Proper shipping name: Potassium hydroxide, solid

Reportable Quantity (RQ): 1000 lbs Poison Inhalation Hazard: No

IMDG UN number: 1813

Class: 8

Packing group: II EMS-No: F-A, S-B

Proper shipping name: POTASSIUM HYDROXIDE,

SOLID

IATA UN number: 1813

Class: 8

Packing group: II

Proper shipping name: Potassium hydroxide, solid

2mL Agent A (Sulfuric acid)

Chemical Sulfuric acid
Component Sulfuric acid
CAS-No. 7664-93-9

DOT (US) UN number: 1830

Class: 8

Packing group: II

Proper shipping name: Sulfuric acid Reportable Quantity (RQ): 1000 lbs

Poison Inhalation Hazard: No

IMDG UN number: 1830

Class: 8

Packing group: II EMS-No: F-A, S-B

Proper shipping name: SULPHURIC ACID

IATA UN number: 1830

Class: 8

Packing group: II

Proper shipping name: Sulphuric acid

2mL Agent B

Chemical **2-Propanol**

Component 2-Propanol

CAS-No. 67-63-0

DOT (US) UN number: 1219

Class: 3

Packing group: II

Proper shipping name: Isopropanol

Reportable Quantity (RQ): Poison Inhalation Hazard: No

IMDG UN number: 1219

Class: 3

Packing group: II EMS-No: F-E, S-D

Proper shipping name: ISOPROPANOL

IATA UN number: 1219

Class: 3

Packing group: II

Proper shipping name: Isopropanol

Section 15: Regulatory Information

All reagents This product has been classified in accordance

with the hazard criteria of the Hazardous

Products Regulations (HPR) and the SDS contains

all the information required by the HPR.

Section 16: Other information

All reagents No data available