

Xstamper

according to Regulation (EC) No 453/2010

Revision Date: 14.06.2013

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

1.1. Product identifier

Product Name : Artline Writing Pens 200, 210, 220 Color : (Black)

EK-200 ,EK-200CC ,EK-210 ,EK-220

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

Recommended use : Writing ink

1.3. Details of the supplier of the safety data sheet

Supplier Company Name : Shachihata (Europe) Limited

Address : Artline Point, Ashville Way, Sutton Weaver, Runcorn, Cheshire WA7 3EZ. UK

Telephone : 0870 600 5 006 Fax : 0871 200 5 006

Contact (e-mail) : www.artline-xstamper.com

Manufacturer Company Name : Shachihata Inc.

Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan

Telephone : +81-52-521-3600 Fax : +81-52-521-3899

Contact (e-mail) : chem-analysis@ngy.shachihata.co.jp

1.4. Emergency telephone number

Telephone: 0870 600 5 006

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
- 2.1.1. Classification (REGULATION (EC) No 1272/2008)

 Not classified (ink)
- 2.1.2. Classification (67/548/EEC, 1999/45/EC)
 Not classified (ink)
- 2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : none
Signal word : none
Hazard statement : none

Precautionary statement

[Prevention]

Wash hands thoroughly after handling. (P264)

[Response]

IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

IF IN EYES : Rinse cautiously with water for several minutes.

(P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. (P337+P313)

IF SWALLOWED : Get medical advice/attention if you feel unwell.Rinse mouth. (P301+P314+P330)

[Storage]

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

[Disposal]

Dispose of contents/container to waste in accordance with (P501)

local/regional/ national/international regulation (to be specified).

2.3. Other hazards





3.2 Mixtures

Ingredients:

Chemical Name / Generic name	CAS-No. EC-No. Index	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Composition weight %
Water	7732-18-5 231-791-2	none	none	60 ~ 70
ethane-1,2-diol	107-21-1 203-473-3	Xn; R22	Acute Tox.(oral) 4	5 ~ 15
2,2'-oxydiethanol	111-46-6 203-872-2	Xn; R22	Acute Tox.(oral) 4	5 ~ 15
Dyestuff	Confidential	none	none	5 ~ 15
Others	Confidential	none	none	1 ~ 10
total				100

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Consult a doctor if symptoms persist.

IF ON SKIN : Remove/Take off immediately all contaminated clothing. Wash with soap and water.

If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach,

and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient

when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide

Unsuitable extinguishing media : Water jet

5.2. Special hazards arising from the substance or mixture

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

5.3. Advice for firefighters

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.

Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

In case of a small spill, absorb with dry sand, soil, sawdust, cloth, etc.,

then place in a chemical waste containers.

In case of large spills, dike and prevent overflow, cover spills with foam,

7.1. Precautions for safe handling

Advice on safe handling : Use with adequate ventilation.

Avoid contact with skin, eyes and clothing. Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed and store in a cool and dry place. areas and containers : Keep away from heat and flame,ignition source and sunlight.

Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIRECTIVE 2000/39/EC

ethane-1,2-diol TWA 20ppm

EH40/2005 Workplace exposure limits

ethane-1,2-diol TWA 20ppm 2,2'-oxydiethanol TWA 23ppm

ACGIH (2012)

ethane-1,2-diol STEL ceiling 100mg/m³(H)

OSHA PEL Not listed

8.2. Exposure controls

Personal protective equipment

Respiratory Protection : Use with local exhaust ventilation, when in long use.

Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.

Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary. Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.

Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

General advice : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : black liquid

Odour : odorless

pH : 7~9

Boiling point : No data available

Flash point : Not applicable (closed cup)

Relative Density (at 25 °C) : $1.0 \sim 1.2$ (g/cm³)

Solubility in Water : Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

11.1. Information on toxicological effects

Acute toxicity : LD/LC50 values that are relevant for classification

[ethane-1,2-diol] and [2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000mg/kg
Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : Not listed by IARC, EPA, EU, NTP.

SECTION 12: Ecological information

12.1. Toxicity : No data available
12.2. Persistence and degradability : No data available
12.3. Bioaccumulative potential : No data available
12.4. Mobility in soil : No data available
12.5. Results of PBT and vPvB assessment : No data available
12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal must be made according to official regulations.

 $\label{lem:comply} \mbox{ Comply with all Federal, State, and Local regulations regarding disposal.}$

Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information

14.1. UN number DOT, ADR, IMDG, IATA : none 14.2. UN proper shipping name DOT, ADR, IMDG, IATA : none 14.3. Transport hazard class(es) DOT, ADR, IMDG, IATA : none 14.4. Packing group DOT, ADR, IMDG, IATA : none 14.5. Environmental hazards Marine pollutant : No 14.6. Special precautions for user **EMS Number** : none

14.7. Transport in bulk according to Annex II of : Not applicable.

MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [ethane-1,2-diol]

Hazard Class & Category : Acute toxicity - Oral, Category 4

Symbols : GHS07 Signal word : Warning

Hazard statements : H302 Harmful if swallowed

Substance name : [2,2'-oxydiethanol]

Hazard Class & Category : Acute toxicity - Oral, Category 4

Symbols : GHS07 Signal word : Warning

Hazard statements : H302 Harmful if swallowed

Directive 67/548/EEC or 1999/45/EC

Substance name : [ethane-1,2-diol]

Classification : Xn; R22

R-Phrase : R22 Harmful if swallowed.

S-Phrase : S2 Keep out of the reach of children.

Symbols and indications of danger specific Xn: Harmful

Substance name : [2,2'-oxydiethanol]

Classification : Xn; R22

R-Phrase : R22 Harmful if swallowed.

S-Phrase : S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)
This product not contain lead,mercury, cadmium, hexavalent chromium,
polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).



Artline Xstamper

according to Regulation (EC) No 453/2010

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- 2.1.2. Classification (67/548/EEC, 1999/45/EC)
 Not classified (ink)
- 2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : none
Signal word : none
Hazard statement : none

Precautionary statement

[Prevention]

Wash hands thoroughly after handling. (P264)

[Response]

IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

IF IN EYES : Rinse cautiously with water for several minutes.

(P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists : Get medical advice/attention. (P337+P313)

IF SWALLOWED : Get medical advice/attention if you feel unwell.Rinse mouth. (P301+P314+P330)

[Storage]

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

[Disposal]

Dispose of contents/container to waste in accordance with (P501)

local/regional/ national/international regulation (to be specified).

2.3. Other hazards



3.2 Mixtures

Ingredients:

Chemical Name /	CAS-No.	Classification	Classification	Composition
Generic name	EC-No. Index	(67/548/EEC)	(REGULATION (EC) No 1272/2008)	weight %
			1212,2000)	
Water	7732-18-5 231-791-2	none	none	60 ~ 70
ethane-1,2-diol	107-21-1 203-473-3	Xn; R22	Acute Tox.(oral) 4	10 ~ 20
2,2'-oxydiethanol	111-46-6 203-872-2	Xn; R22	Acute Tox.(oral) 4	5 ~ 15
Dyestuff	Confidential	none	none	1 ~ 10
Others	Confidential	none	none	1 ~ 10
total				100

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4.1. Description of first aid measures

IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Consult a doctor if symptoms persist.

IF ON SKIN : Remove/Take off immediately all contaminated clothing. Wash with soap and water.

If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach,

and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient

when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide

Unsuitable extinguishing media : Water jet

5.2. Special hazards arising from the substance or mixture

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

5.3. Advice for firefighters

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.

Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

In case of a small spill, absorb with dry sand, soil, sawdust, cloth, etc.,

then place in a chemical waste containers.

In case of large spills, dike and prevent overflow, cover spills with foam,

7.1. Precautions for safe handling

Advice on safe handling : Use with adequate ventilation.

Avoid contact with skin, eyes and clothing. Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed and store in a cool and dry place. areas and containers : Keep away from heat and flame,ignition source and sunlight.

Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIRECTIVE 2000/39/EC

ethane-1,2-diol TWA 20ppm

EH40/2005 Workplace exposure limits

ethane-1,2-diol TWA 20ppm 2,2'-oxydiethanol TWA 23ppm

ACGIH (2012)

ethane-1,2-diol STEL ceiling 100mg/m³(H)

OSHA PEL Not listed

8.2. Exposure controls

Personal protective equipment

Respiratory Protection : Use with local exhaust ventilation, when in long use.

Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.

Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary. Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.

Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

General advice : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : blue liquid

Odour : odorless
pH : 7~9

Boiling point : No data available

Flash point : Not applicable (closed cup)

Relative Density (at 25 °C) : $1.0 \sim 1.2$ (g/cm³)

Solubility in Water : Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

11.1. Information on toxicological effects

Acute toxicity : LD/LC50 values that are relevant for classification

[ethane-1,2-diol] and [2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000mg/kg
Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : Not listed by IARC, EPA, EU, NTP.

SECTION 12: Ecological information

12.1. Toxicity : No data available
12.2. Persistence and degradability : No data available
12.3. Bioaccumulative potential : No data available
12.4. Mobility in soil : No data available
12.5. Results of PBT and vPvB assessment : No data available
12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal must be made according to official regulations.

 $\label{lem:comply} \mbox{Comply with all Federal, State, and Local regulations regarding disposal.}$

Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information

14.1. UN number DOT, ADR, IMDG, IATA : none 14.2. UN proper shipping name DOT, ADR, IMDG, IATA : none 14.3. Transport hazard class(es) DOT, ADR, IMDG, IATA : none 14.4. Packing group DOT, ADR, IMDG, IATA : none 14.5. Environmental hazards Marine pollutant : No 14.6. Special precautions for user **EMS Number** : none

14.7. Transport in bulk according to Annex II of : Not applicable.

MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [ethane-1,2-diol]

Hazard Class & Category : Acute toxicity - Oral, Category 4

Symbols : GHS07 Signal word : Warning

Hazard statements : H302 Harmful if swallowed

Substance name : [2,2'-oxydiethanol]

Hazard Class & Category : Acute toxicity - Oral, Category 4

Symbols : GHS07 Signal word : Warning

Hazard statements : H302 Harmful if swallowed

Directive 67/548/EEC or 1999/45/EC

Substance name : [ethane-1,2-diol]

Classification : Xn; R22

R-Phrase : R22 Harmful if swallowed.

S-Phrase : S2 Keep out of the reach of children.

Symbols and indications of danger specific Xn: Harmful

Substance name : [2,2'-oxydiethanol]

Classification : Xn; R22

R-Phrase : R22 Harmful if swallowed.

S-Phrase : S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)
This product not contain lead,mercury, cadmium, hexavalent chromium,
polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).



Xstamper

according to Regulation (EC) No 453/2010

Revision Date: 14.06.2013

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

1.1. Product identifier

Product Name : Artline Writing Pens 200, 210, 220 Color : (Red)

EK-200 ,EK-210 ,EK-220

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

Recommended use : Writing ink

1.3. Details of the supplier of the safety data sheet

Supplier Company Name : Shachihata (Europe) Limited

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2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : none
Signal word : none
Hazard statement : none

Precautionary statement

[Prevention]

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[Response]

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IF IN EYES : Rinse cautiously with water for several minutes. (P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. (P337+P313)

IF SWALLOWED : Get medical advice/attention if you feel unwell.Rinse mouth. (P301+P314+P330)

[Storage]

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

[Disposal]

Dispose of contents/container to waste in accordance with (P501)

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2.3. Other hazards



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Chemical Name /	CAS-No.	Classification	Classification	Composition
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OSHA PEL Not listed

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Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information

14.1. UN number DOT, ADR, IMDG, IATA : none 14.2. UN proper shipping name DOT, ADR, IMDG, IATA : none 14.3. Transport hazard class(es) DOT, ADR, IMDG, IATA : none 14.4. Packing group DOT, ADR, IMDG, IATA : none 14.5. Environmental hazards Marine pollutant : No 14.6. Special precautions for user **EMS Number** : none

14.7. Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [ethane-1,2-diol]

Hazard Class & Category : Acute toxicity - Oral, Category 4

Symbols : GHS07 Signal word : Warning

Hazard statements : H302 Harmful if swallowed

Substance name : [2,2'-oxydiethanol]

Hazard Class & Category : Acute toxicity - Oral, Category 4

Symbols : GHS07 Signal word : Warning

Hazard statements : H302 Harmful if swallowed

Directive 67/548/EEC or 1999/45/EC

Substance name : [ethane-1,2-diol]

Classification : Xn; R22

R-Phrase : R22 Harmful if swallowed.

S-Phrase : S2 Keep out of the reach of children.

Symbols and indications of danger specific Xn: Harmful

Substance name : [2,2'-oxydiethanol]

Classification : Xn; R22

R-Phrase : R22 Harmful if swallowed.

S-Phrase : S2 Keep out of the reach of children.

S46 If swallowed, seek medical advice immediately and show this container

: Not applicable.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC) This product not contain lead,mercury, cadmium, hexavalent chromium, polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).



Xstamper

according to Regulation (EC) No 453/2010

Revision Date: 14.06.2013

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

1.1. Product identifier

Product Name : Artline Writing Pens 200, 210, 220 Color : (Green)

EK-200 ,EK-210 ,EK-220

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

Recommended use : Writing ink

1.3. Details of the supplier of the safety data sheet

Supplier Company Name : Shachihata (Europe) Limited

Address : Artline Point, Ashville Way, Sutton Weaver, Runcorn, Cheshire WA7 3EZ. UK

Telephone : 0870 600 5 006 Fax : 0871 200 5 006

Contact (e-mail) : www.artline-xstamper.com

Manufacturer Company Name : Shachihata Inc.

Address : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan

Telephone : +81-52-521-3600 Fax : +81-52-521-3899

Contact (e-mail) : chem-analysis@ngy.shachihata.co.jp

1.4. Emergency telephone number

Telephone: 0870 600 5 006

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
- 2.1.1. Classification (REGULATION (EC) No 1272/2008)

 Not classified (ink)
- 2.1.2. Classification (67/548/EEC, 1999/45/EC)
 Not classified (ink)
- 2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : none
Signal word : none
Hazard statement : none

Precautionary statement

[Prevention]

Wash hands thoroughly after handling. (P264)

[Response]

IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

IF IN EYES : Rinse cautiously with water for several minutes. (P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. (P337+P313)

IF SWALLOWED : Get medical advice/attention if you feel unwell.Rinse mouth. (P301+P314+P330)

[Storage]

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

[Disposal]

Dispose of contents/container to waste in accordance with (P501)

local/regional/ national/international regulation (to be specified).

2.3. Other hazards



3.2 Mixtures

Ingredients:

Chemical Name /	CAS-No.	Classification	Classification	Composition
Generic name	EC-No. Index	(67/548/EEC)	(REGULATION (EC) No 1272/2008)	weight %
Water	7732-18-5 231-791-2	none	none	60 ~ 70
ethane-1,2-diol	107-21-1 203-473-3	Xn; R22	Acute Tox.(oral) 4	10 ~ 20
2,2'-oxydiethanol	111-46-6 203-872-2	Xn; R22	Acute Tox.(oral) 4	5 ~ 15
Dyestuff	Confidential	none	none	1 ~ 10
Others	Confidential	none	none	1 ~ 10
total				100

SECTION 4: First aid measures

4.1. Description of first aid measures

IF INHALED : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Consult a doctor if symptoms persist.

IF ON SKIN : Remove/Take off immediately all contaminated clothing. Wash with soap and water.

If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.

IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

IF SWALLOWED : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach,

and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient

when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical powder, foam or carbon dioxide

Unsuitable extinguishing media : Water jet

5.2. Special hazards arising from the substance or mixture

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

5.3. Advice for firefighters

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn.

Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

6.2. Environmental precautions

Do not throw the leakage thing directly into environment

6.3. Methods and material for containment and cleaning up

In case of a small spill, absorb with dry sand, soil, sawdust, cloth, etc.,

then place in a chemical waste containers.

In case of large spills, dike and prevent overflow, cover spills with foam,

7.1. Precautions for safe handling

Advice on safe handling : Use with adequate ventilation.

Avoid contact with skin, eyes and clothing. Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed and store in a cool and dry place. areas and containers : Keep away from heat and flame,ignition source and sunlight.

Keep out of the reach of children.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DIRECTIVE 2000/39/EC

ethane-1,2-diol TWA 20ppm

EH40/2005 Workplace exposure limits

ethane-1,2-diol TWA 20ppm 2,2'-oxydiethanol TWA 23ppm

ACGIH (2012)

ethane-1,2-diol STEL ceiling 100mg/m³(H)

OSHA PEL Not listed

8.2. Exposure controls

Personal protective equipment

Respiratory Protection : Use with local exhaust ventilation, when in long use.

Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.

Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary. Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.

Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.

Environmental exposure controls

General advice : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : green liquid
Odour : odorless
pH : 7~9

Boiling point : No data available

Flash point : Not applicable (closed cup)

Relative Density (at 25 °C) : $1.0 \sim 1.2$ (g/cm³)

Solubility in Water : Insoluble

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Thermally stable at typical use temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to Avoid

High temperature, Direct sunlight, Fire

10.5. Incompatible Materials

No data available

10.6. Hazardous decomposition products

11.1. Information on toxicological effects

Acute toxicity : LD/LC50 values that are relevant for classification

[ethane-1,2-diol] and [2,2'-oxydiethanol]

Oral-rat LD50 >300 - <=2,000mg/kg
Dermal-rabbit LD50 >5,000 mg/kg

Carcinogenicity : Not listed by IARC, EPA, EU, NTP.

SECTION 12: Ecological information

12.1. Toxicity : No data available
12.2. Persistence and degradability : No data available
12.3. Bioaccumulative potential : No data available
12.4. Mobility in soil : No data available
12.5. Results of PBT and vPvB assessment : No data available
12.6. Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

Do not allow product to reach ground, any water course or sewage system.

SECTION 14: Transport information

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