Электронные химикаты EL

Технические характеристики

Виды товаров: 2-пропанол, уксусная кислота, ацетон, акриламид, адипат аммония марки, нитрат бари, бензол, плавиковая кислота, метанол, трихлорэтилен марки, вода класса EL и др.

По вопросам продаж и поддержки обращайтесь:

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Electronic Grade



EL0051	2-Propanol EL grade	67-63-0
EL0001	Acetic Acid Glacial EL Grade	64-19-7
EL0002	Acetone EL Grade	67-64-1
EL0005	Acrylamide 99.5% for Electrophoresis3x Crystallised	79-06-1
030022	Acrylamide 99.9% for Electrophoresis	79-06-1
EL0000	Ammonium Adipate EL Grade	3385-41-9
EL0011	Barium Nitrate EL Grade	10022-31-8
EL0014	Benzene EL Grade	71-43-2
EL0500	Hydrofluoric Acid 40% EL	7664-39-3
EL0501	Hydrofluoric Acid 48% EL	7664-39-3
EL0031	Methanol EL	67-56-1
EL0071	Trichloroethylene EL grade	79-01-6

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Hydrofluoric Acid 40% EL

 Cat No.
 EL0500

 CAS-No.
 7664-39-3

 M.W.
 20.01

 EC-No.
 231-634-8

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 7664-39-3
Percent 40-42%
Substance/Mixture Substance

Synonym - Chemical Formula HF

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Acute toxicity, Oral (Category 2)
Acute toxicity, Inhalation (Category 2)
Acute toxicity, Dermal (Category 1)
Skin corrosion (Category 1A)

GHS LABEL ELEMENTS

Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly after handling.

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

protection.

P284 Wear respiratory protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

Risk Phrases

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R35 Causes severe burns.

Safety Phrases

S7/9 Keep container tightly closed and in a well-ventilated place.

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

S36/37 Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice immediately

(show the label where possible).

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Chemistry beyond chemicals



Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Hydrogen fluoride

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protective equipment (self-contained breathing apparatus). Avoid breathing Personal precautions

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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep insuitable

closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

containment and cleaning up

Avoid contact with skin and eyes . Avoid formation of dust and aerosols. Provide appropriate Handling

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Impervious protective clothing and boots, if required. **Skin and Body Protection**

Use half or full-face respirator with multi-purpose combination. If the respirator is the sole means Respiratory protection

of protection, use a full-face supplied air respirator. Use respirators and components tested and

approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance clear liquid Odour Stinging

Odour Threshold no data available рΗ ca.2 at 20 °C Melting/freezing point ca. -35 °C

ca. 106 °C at 1,013 hPa Boiling point/range

no data available Flash point **Evapouration rate** no data available Vapour pressure no data available no data available Vapour density Relative density no data available Water solubility at 20 °C soluble LogPow no data available **Auto-ignition temperature** no data available **Decomposition temperature** no data available no data available Viscosity **Explosive properties** no data available **Oxidizing properties** no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability The product is chemically stable under standard ambient conditions (room temperature).

Incompatibilities glass, Metals, quartzes/silicate ceramics

Gives off hydrogen by reaction with metals.

Hazardous decomposition

products

Hydrogen fluoride

Conditions to avoid Heating.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Mixture causes severe burns.

Serious eye damage/irritation Mixture causes serious eye damage. Risk of blindness!

Chemistry beyond chemicals



Respiratory/skin sensitization
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
no data available
no data available
no data available

Specific target organ toxicity
Specific target organ toxicity
Single exposure: no data available
Repeated exposure: no data available

Aspiration hazard no data available RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish no data available Toxicity to daphnia and no data available

other aquatic invertebrates

Persistence/degradation no data available Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 1790

Proper shipping name Hydrofluoric Acid

Hazard class 8(6.1)
Packaging group

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Trichloroethylene EL Grade

Cat No. EL0071 CAS-No. 79-01-6 M.W. 131.39 EC-No. 201-167-4

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 79-01-6
Percent 99.7%
Substance/Mixture Substance

Synonym Ethylene trichloride ;TCE

Chemical Formula CHCl:CCl₂

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Skin irritation (Category 2)
Eye irritation (Category 2)
Germ cell mutagenicity (Category 2)
Carcinogenicity (Category 1B)
Specific target organ toxicity - single exposure (Category 3)
Chronic aquatic toxicity (Category 3)

GHS LABEL ELEMENTS



Danger



Pictograms or Hazard Symbols

Signal word Hazard statement(s)

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H350 May cause capser.

H350 May cause cancer.

H371 May cause damage to organs.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P260 **Do** not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

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

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

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Chemistry beyond chemicals



Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, Hydrogen chloride gas.

Advice for firefighters Wear personal protective equipment for firefighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance clear colorless liquid
Odour no data available
Odour Threshold no data available
pH no data available

Melting/freezing point -84.8°C Boiling point/range 86-87°C

Flash point no data available
Evapouration rate no data available
Vapour pressure no data available
Vapour density no data available
Relative density no data available

Water solubility Insoluble

LogPow no data available
Auto-ignition temperature no data available
Decomposition temperature viscosity no data available
Explosive properties no data available
Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

StabilityStable under recommended storage conditions.IncompatibilitiesOxidizing agents, Strong bases, Magnesium.

Hazardous decomposition no data available

products

Conditions to avoid no data available

Chemistry beyond chemicals



SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Skin - Rabbit Result: Severe skin irritation - 24 h

Serious eye damage/irritation Eyes - Rabbit Result: Eye irritation - 24 h

Respiratory/skin sensitization no data available

Germ cell mutagenicity Laboratory experiments have shown mutagenic effects.

In vitro tests showed mutagenic effects

Carcinogenicity This product is or contains a component that has been reported to be probably carcinogenic

based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen IARC: 1 - Group 1: Carcinogenic to humans (Trichloroethylene)

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 RTECS KX4550000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 41 mg/l - 96.0 h

LOEC - other fish - 11 mg/l - 10.0 d NOEC - Oryzias latipes - 40 mg/l - 10.0 d

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 18.00 mg/l - 48 h

other aquatic invertebrates

Toxicity to algae IC50 - Pseudokirchneriella subcapitata (green algae) - 175.00 mg/l - 96 h

Persistence/degradation no data available

Environmental Harmful to aquatic life with long lasting effects.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 1710

Proper shipping name Trichloroethylene

Hazard class 6.1 Packaging group III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name 2-Propanol EL Grade

Cat No. EL0051 67-63-0 CAS-No. 60.10 M.W. EC-No.

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) Isopropyl alcohol

CAS No. 67-63-0 **Percent** >99.8% Substance/Mixture Substance

Synonym Propan-2-ol; Isopropanol; IPA

Chemical Formula (CH₃)₂CHOH

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids (Category 2) Eye irritation (Category 2) Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS





Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

Highly flammable liquid and vapour. H225 H319 Causes serious eye irritation. May cause drowsiness or dizziness. H336

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing vapours.

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

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

Risk Phrases

R11 Highly flammable. R36 Irritating to eyes.

Vapours may cause drowsiness and dizziness. R67

Safety Phrases

S7 Keep container tightly closed. S16 Keep away from sources of ignition. S24/25 Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek S26

medical advice.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes. Eye contact

Get medical advice.

Do NOT induce vomiting. Rinse mouth with water. Get medical advice. Ingestion

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Chemistry beyond chemicals



Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautionsUse personal protective equipment (self-contained breathing apparatus). Avoid breathing

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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protection Use half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance A clear colourless liquid

Odour alcohol-like

Odour Threshold 1.0 -196.1 ppm

pH at 20 °C neutral

Melting/freezing point -89.5 °C

Boiling point/range 82.4 °C at 1,013 hPa

Flash point 12.0 °C

Evapouration rate no data available

Vapour pressure 43 hPa at 20 °C

Vapour density 2.07

Relative density 0.783-0.786g **Water solubility** at 20 °C soluble

LogPow 0.05

Auto-ignition temperature
Decomposition temperature
Viscosity

Explosive properties

no data available
no data available
2.2 mPa.s at 20 °C
no data available

Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Formation of peroxides possible. Vapours may form explosive mixture with air.

Stability Sensitivity to light, Sensitive to air.

The product is chemically stable under standard ambient conditions (room temperature)

Incompatibilities rubber, various plastics, oils

Hazardous decomposition

products

Peroxides

Conditions to avoid Warming

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Rabbit Result: No skin irritation Rabbit Result: Eye irritation

Respiratory/skin sensitization Buehler Test Guinea pig Result: negative

Germ cell mutagenicityGenotoxicity in vitro Ames test Salmonella typhimurium Result: negative

Carcinogenicityno data availableReproductive toxicityno data available

Chemistry beyond chemicals



Specific target organ toxicity Single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish flow-through test LC50 Pimephales promelas (fathead minnow): 9,640 mg/l; 96

Toxicity to daphnia and EC50 Daphnia magna (Water flea): 13,299 mg/l; 48 h

other aquatic invertebrates

Persistence/degradation Biodegradability 95 %; 21 d; aerobic Readily biodegradable

Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 1219

Proper shipping name ISOPROPANOL

Hazard class 3
Packaging group II

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

 Chemical name
 Methanol EL

 Cat No.
 EL0031

 CAS-No.
 67-56-1

 M.W.
 32.04

 EC-No.
 200-659-6

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)Methyl AlcoholCAS No.67-56-1Percent>99.9%Substance/MixtureSubstanceSynonymCarbinolChemical FormulaCH₃OH

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids (Category 2)
Acute toxicity, Oral (Category 3)
Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)
Specific target organ toxicity - single exposure (Category 1)

GHS LABEL ELEMENTS



Danger





Pictograms or Hazard Symbols

Signal word

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H311 Toxic in contact with skin

H331 Toxic if inhaled.

H370 Causes damage to organs.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and otherignition sources.

No smoking.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P311 Call a POISON CENTER or doctor/ physician.

Risk Phrases

R11 Highly flammable.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in

contact with skin and if swallowed.

Safety Phrases

S7 Keep container tightly closed. S16 Keep away from sources of ignition.

S36/37 Wear suitable protective clothing and gloves.

In case of accident or if you feel unwell, seek medical advice immediately

(show the label whenever possible.)

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Chemistry beyond chemicals



Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautionsUse personal protective equipment (self-contained breathing apparatus). Avoid breathing

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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick containment and cleaning up clos

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

means of protection, use a full-face supplied air respirator. Use respirators and components

tested and approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance clear colourless liquid

Odour characteristic

Odour Threshold 10 -20000 ppm pH no data available

Melting/freezing point -98 °C

Boiling point/range 64.5 °C at 1,013 hPa

Flash point 10 °C

Evapouration rate no data available

Vapour pressure 128 hPa at 20.0 °C

Vapour density 1.11

Relative density 0.790-0.792g **Water solubility** at 20 °C soluble

LogPow -0.77 **Auto-ignition temperature** 455.0 °C

Decomposition temperatureno data availableViscosity0.597 mPa.s at 20 °CExplosive propertiesno data availableOxidizing propertiesno data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Vapours may form explosive mixture with air.

Stability The product is chemically stable under standard ambient conditions (room temperature)

Incompatibilities various plastics, magnesium, zinc alloys

Hazardous decomposition no data available

products

Conditions to avoid Warming
SECTION 11: TOXICOLOGICAL INFORMATION

Chemistry beyond chemicals



Skin corrosion/irritation Rabbit Result: No Skin irritation Rabbit Result: No eye irritation

Respiratory/skin sensitization Sensitisation test: Guinea pig Result: negative

Germ cell mutagenicity Genotoxicity in vitro Ames test Salmonella typhimurium Result: negative

Carcinogenicityno data availableReproductive toxicityno data available

Specific target organ toxicity Single exposure: Causes damage to organs. **Specific target organ toxicity** Repeated exposure: no data available

Aspiration hazard no data available RTECS PC1400000

RTECS PC1400000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 Lepomis macrochirus (Bluegill sunfish): 15,400 mg/l; 96 h

Toxicity to daphnia and EC50 Daphnia magna (Water flea): > 10,000 mg/l; 48 h

other aquatic invertebrates

Persistence/degradation Biodegradability 99 %; 30 d Readily biodegradable

Environmental Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 1230
Proper shipping name Methanol
Hazard class 3(6.1)
Packaging group

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

 Chemical name
 Barium Nitrate

 Cat No.
 EL0011

 CAS-No.
 10022-31-8

 M.W.
 261.34

 EC-No.
 233-020-5

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 10022-31-8
Percent >99.5%
Substance/Mixture Substance

Synonym

Chemical Formula Ba(NO₃)₂

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Oxidizing solids (Category 2)
Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 4)
Eye irritation (Category 2)

GHS LABEL ELEMENTS





Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H272 May intensify fire; oxidizer. H301 Toxic if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Precautionary statement(s)

P221 Take any precaution to avoid mixing with combustibles/...

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

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

P308+P310 IF exposed or concerned, Immediately call a POISON CENTER or

doctor/physician.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Barium oxide, Nitrogen oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing

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

Remove all sources of ignition.

Chemistry beyond chemicals



Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protectionUse half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance White crystalline powder

Odour odourless

Odour Threshold no data available

pH 5.0 - 8.0 at 50 g/l 25 °C

Melting/freezing point ca. 592 °C

Boiling point/range no data available
Flash point no data available
Evapouration rate no data available
Vapour pressure no data available
Vapour density no data available
Relative density 3.23 g/cm³
Water solubility no data available
LogPow no data available

LogPow no data available
Auto-ignition temperature no data available
Decomposition temperature
Viscosity no data available
no data available

Explosive properties no data available
Oxidizing properties no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

StabilityStable under recommended storage conditions.IncompatibilitiesAcid anhydrides, Reducing agents, Acids, Bases

Hazardous decomposition

Products

Barium oxide, Nitrogen oxides

Conditions to avoid Avoid moisture. Heat

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritationSkin-RabbitResult: Mild skin irritationSerious eye damage/irritationEyes-RabbitResult: Moderate eye irritation

Respiratory/skin sensitization 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.

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 RTECS CQ9625000

SECTION 12: ECOLOGICAL INFORMATION

Chemistry beyond chemicals



Ecotoxicity

Toxicity to fish no data available Toxicity to daphnia and no data available

other aquatic invertebrates

Persistence/degradation no data available Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 1446

Proper shipping name
Hazard class
Packaging group

Barium Nitrate
5.1(6.1)

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Acrylamide for Electrophoresis

 Cat No.
 EL0005

 CAS-No.
 79-06-1

 M.W.
 71.08

 EC-No.
 201-173-7

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 79-06-1
Percent > 99.5%
Substance/Mixture Substance

Synonym Ethylenecarboxamide; 2-Propenamide

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Carcinogenicity	(Category 1B)
Germ cell mutagenicity	(Category 1B)
Reproductive toxicity	(Category 2)
Acute toxicity, Oral	(Category 3)
Specific target organ toxicity -repeated exposure	(Category 1)
Acute toxicity, Inhalation	(Category 4)
Acute toxicity, Dermal	(Category 4)
Eye irritation	(Category 2)
Skin irritation	(Category 2)
Skin sensitization	(Category 1)

GHS LABEL ELEMENTS





Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H312 + H332 Harmful in contact with skin or if inhaled

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H340 May cause genetic defects.

H350 May cause cancer.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201 Obtain special instructions before use.
P280 Wear protective gloves/ protective clothing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Chemistry beyond chemicals



Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, Nitrogen oxides (NOx)

Advice for firefighters Wear personal protective equipment for firefighting if necessary.

Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controlsEnsure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protectionUse half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colourless crystaline powder.

Odour Odourless

Odour Threshold no data available pH no data available

Melting/freezing point 82-86 °C

Boiling point/range 125 °C at 33.3 hPa

Flash point 138 °C

Evapouration rate no data available

Vapour pressure 0.009 hPa at 25 °C

Vapour density 2.45

Relative density no data available

Water solubility
LogPow
-0.9 (20 °C)
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties
soluble
-0.9 (20 °C)
no data available
no data available
no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity No data available.

Stability Stable under recommended storage conditions

Incompatibilities Acids, Oxidizing agents, Iron and iron salts., Copper, Brass, Free radical initiators

Hazardous decomposition Carbon oxides, Nitrogen oxides (NOx)

products

Conditions to avoid No data available

Chemistry beyond chemicals



Serious eye damage/irritation Eyes-Rabbit Result: Irritating to eyes.

Respiratory/skin sensitizationMaximisation Test-Guinea pig
May cause allergic skin reaction.

Germ cell mutagenicity May alter genetic material. In vivo tests showed mutagenic effects

Carcinogenicity This product is or contains a component that has been reported to be proba EPA

classification. Possible human carcinogen

IARC:2A-Group 2A: Probably carcinogenic to humans

Reproductive toxicityAnimal testing did not show any effects on foetal development.

May cause reproductive disorders. Suspected human reproductive toxicant **Specific target organ toxicity** Single exposure: no data available

Specific target organ toxicity repeated exposure: Oral-Causes damage to organs through prolonged or repeated exposure.

Peripheral nervous system

Aspiration hazard no data available RTECS RTECS: AS3325000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50-Pimephales promelas (fathead minnow)-90 mg/l-96 h

NOEC-Cyprinus carpio (Carp)-5 mg/l-28 d

Toxicity to daphnia and

other aquatic invertebrates: mortality NOEC-Daphnia magna (Water flea)-60 mg/l-48 h **Persistence/degradation** Biodegradability Result: 100 %-Readily biodegradable

Environmental Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 2074

Proper shipping name ACRYLAMIDE, SOLID

Hazard class 6.1 Packaging group III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Acetone EL Grade

 Cat No.
 EL0002

 CAS-No.
 67-64-1

 M.W.
 58.08

 EC-No.
 200-662-2

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 67-64-1
Percent >99.8%
Substance/Mixture Substance

Synonym 2-Propanone; Dimethyl ketone

Chemical Formula (CH₃)₂CO

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids (Category 2)
Eye irritation (Category 2)
Specific target organ toxicity - single exposure (Category 3)

GHS LABEL ELEMENTS





Pictograms or Hazard Symbols

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/sparks/open flames/hot surfaces. - No smoking.

P261 Avoid breathing vapours.

P305 + P351 + P338 iF IN EYES: Rinse cautiously with water for several minutes.

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

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides.

Advice for firefighters Wear personal protective equipment for firefighting if necessary.

Further information no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautionsUse personal protective equipment (self-contained breathing apparatus). Avoid breathing

Chemistry beyond chemicals



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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

of protection, use a full-face supplied air respirator. Use respirators and components tested and

approved under appropriate government standards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance clear colourless liquid

Odour Like-Fruit

Odour Threshold 0.1 - 662.5 ppm **pH** 5 - 6 at 395 g/l 20 °C

Melting/freezing point -95.4 °C

Boiling point/range 56.2 °C at 1,013 hPa

Flash point < -20 °C

Evapouration rate no data available

Vapour pressure 233 hPa at 20 °C

Vapour density 2.01

Relative density 0.789-0.791 g **Water solubility** at 20 °C soluble

LogPow -0.24

Auto-ignition temperature
Decomposition temperature
Viscosity
Decomposition temperature
Niscosity
Decomposition temperature
Niscosity
Decomposition temperature
Niscosity
Niscos

SECTION 10: STABILITY AND REACTIVITY

Reactivity Vapours may form explosive mixture with air.

Stability Sensitivity to light, Sensitive to air.

Incompatibilities rubber, various plastics no data available

products

Conditions to avoid Warming

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity LD50 Rat: 5,800 mg/kg

Acute inhalation toxicity LC50 Rat: 76 mg/l; 4 h

Acute Innaiation toxicity LC50 Rat: 76 mg/l; 4 n Acute dermal toxicity LD50 Rabbit: 20,000 mg/kg

Skin corrosion/irritation Rabbit Result: No irritation Serious eye damage/irritation Rabbit Result: Eye irritation

Germ cell mutagenicity Genotoxicity in vivo Micronucleus test Result: negative

Carcinogenicity no data available

Chemistry beyond chemicals

Reproductive toxicity no data available

Specific target organ toxicity Single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity Repeated exposure: no data available

Aspiration hazard no data available RTECS Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 Oncorhynchus mykiss (rainbow trout): 5,540 mg/l; 96 h

Toxicity to daphnia and EC50 Daphnia magna (Water flea): 6,100 mg/l; 48 h

other aquatic invertebrates Persistence/degradation

Biodegradability Result: 91 % - Readily biodegradable.

Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 1090
Proper shipping name Acetone
Hazard class 3
Packaging group II

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.



Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Acetic Acid Glacial EL Grade

 Cat No.
 EL0001

 CAS-No.
 64-19-7

 M.W.
 60.05

 EC-No.
 200-580-7

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)

CAS No. 64-19-7
Percent >99.9%
Substance/Mixture Substance

Synonym Glacial Acetic Acid

Chemical Formula CH₃COOH

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Flammable liquids (Category 3) Skin corrosion (Category 1A)

GHS LABEL ELEMENTS





Pictograms or Hazard Symbols

Signal word

Hazard statement(s)

Danger

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/ physician.

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing media:

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid

streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special hazards Carbon oxides

Advice for firefighters Wear personal protective equipment for fire fighting if necessary.

Further information Use water spray to cool unopened containers.

Chemistry beyond chemicals



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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking .Take measures to prevent the build up

of electrostatic charge.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protectionUse half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance liquid Odour pungent

Odour Threshold no data available pH 2.4 at 60.05 g/l Melting/freezing point 16.2°C - lit. Boiling point/range 117 - 118 °C - lit. Flash point 40.0 °C - closed cup Evapouration rate no data available

Vapour pressure 73.3 hPa at 50.0°C

15.2 hPa at 20.0°C no data available

Vapour densityno data availableRelative density1.048-1.051gWater solubilitycompletely miscible

LogPow -0.17 **Auto-ignition temperature** 485.0 °C

Decomposition temperatureno data availableViscosityno data availableExplosive propertiesno data availableOxidizing propertiesno data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity no data available

Stability Stable under recommended storage conditions.

Incompatibilities Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides,

permanganates, e.g. potassium permanganate, Amines, Alcohols

Hazardous decomposition

products

no data available

Conditions to avoid Heat, flames and sparks.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

LD50Oral - rat - 3.310 mg/kg

LC50Inhalation - mouse - 1 h - 5620 ppm

Chemistry beyond chemicals



Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Conjunctive

irritation.

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Blood: Other

changes.

LD50Dermal - rabbit - 1.112 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/irritation Eyes - rabbit - Corrosive to eyes

Respiratory/skin sensitization May cause sensitization by skin contact.

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.

Reproductive toxicity

Specific target organ toxicity Specific target organ toxicity

Aspiration hazard

RTECS

Single exposure : no data available. Repeated exposure: no data available

no data available RTECS: AF1225000

no data available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 79 - 88 mg/l - 96 h

LC50 - Lepomis macrochirus - 75 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates **Persistence/degradation**

EC50 - Daphnia magna (Water flea) - 65 mg/l - 48 h

Biodegradability: aerobic - Exposure time 30 d

Result: 99 % - Readily biodegradable. Remarks: Expected to be biodegradable

Environmental no data available

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 2789

Proper shipping name Acetic Acid Glacial

Hazard class 8(3)
Packaging group

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture :no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

Chemistry beyond chemicals



SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Chemical name Acrylamide for Electrophoresis 99.9%

 Cat No.
 030022

 CAS-No.
 79-06-1

 M.W.
 71.08

 EC-No.
 201-173-7

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component(s) -

CAS No. 79-06-1
Percent > 99.9%
Substance/Mixture Substance

Synonym Ethylenecarboxamide; 2-Propenamide

Chemical Formula C₃H₅NO

SECTION 3: HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Carcinogenicity	(Category 1B)
Germ cell mutagenicity	(Category 1B)
Reproductive toxicity	(Category 2)
Acute toxicity, Oral	(Category 3)
Specific target organ toxicity -repeated exposure	(Category 1)
Acute toxicity, Inhalation	(Category 4)
Acute toxicity, Dermal	(Category 4)
Eye irritation	(Category 2)
Skin irritation	(Category 2)
Skin sensitization	(Category 1)

GHS LABEL ELEMENTS





Pictograms or Hazard Symbols

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H312 + H332 Harmful in contact with skin or if inhaled

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H340 May cause genetic defects.

H350 May cause cancer.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201 Obtain special instructions before use.
P280 Wear protective gloves/ protective clothing.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

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

Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention

SECTION 4: FIRST AID MEASURES

Inhalation If breathed in, move victim into fresh air. Keep at comfortable position for breathing.

Get medical advice.

Skin contact Remove contaminated clothes immediately and wash gently with plenty of soap and water.

Get medical advice.

Eye contact Remove contact lenses, if present. Rinse thoroughly with plenty of water for several minutes.

Get medical advice.

Chemistry beyond chemicals



Ingestion Do NOT induce vomiting. Rinse mouth with water. Get medical advice.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards Carbon oxides, Nitrogen oxides (NOx)

Advice for firefighters Wear personal protective equipment for firefighting if necessary.

Further information No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions Use personal protective equipment (self-contained breathing apparatus). Avoid breathing

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

Remove all sources of ignition.

Environmental precautions Prevent further leakage/spillage. Do not let product enter drains/rivers.

Discharge into the environment must be avoided.

Methods and materials for Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable

containment and cleaning up closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places where dust is formed.

Storage condition Store in a cool, dry and well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls Ensure adequate ventilation. Install safety shower and eye bath. Good industrial hygiene

and safety practice should be followed. Wash hands after handling the product.

Eye/face protection Face shield and safety glasses, if required.

Hand protection Handle with gloves. Dispose of contaminated gloves after use. Wash and dry hands.

Skin and Body Protection Impervious protective clothing and boots, if required.

Respiratory protectionUse half or full-face respirator with multi-purpose combination. 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Colourless crystaline powder.

Odour Odourless

Odour Threshold no data available pH no data available

Melting/freezing point 82-86 °C

Boiling point/range 125 °C at 33.3 hPa

Flash point 138 °C

Evapouration rate no data available

Vapour pressure 0.009 hPa at 25 °C

Vapour density 2.45

Relative density no data available

Water solubility
LogPow
-0.9 (20 °C)
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties
soluble
-0.9 (20 °C)
no data available
no data available
no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity No data available.

Stability Stable under recommended storage conditions

Incompatibilities Acids, Oxidizing agents, Iron and iron salts., Copper, Brass, Free radical initiators

Hazardous decomposition Carbon oxides, Nitrogen oxides (NOx)

products

Conditions to avoid

No data available

SECTION 11: TOXICOLOGICAL INFORMATION

Skin corrosion/irritation Skin-Rabbit Result: No skin irritation

Chemistry beyond chemicals



Serious eye damage/irritation Eyes-Rabbit Result: Irritating to eyes.

Respiratory/skin sensitizationMaximisation Test-Guinea pig
May cause allergic skin reaction.

Germ cell mutagenicity May alter genetic material. In vivo tests showed mutagenic effects

Carcinogenicity This product is or contains a component that has been reported to be proba EPA

classification. Possible human carcinogen

IARC:2A-Group 2A: Probably carcinogenic to humans

Reproductive toxicityAnimal testing did not show any effects on foetal development.

May cause reproductive disorders. Suspected human reproductive toxicant **Specific target organ toxicity** Single exposure: no data available

Specific target organ toxicity repeated exposure: Oral-Causes damage to organs through prolonged or repeated exposure.

Peripheral nervous system

Aspiration hazard no data available RTECS RTECS: AS3325000

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Toxicity to fish LC50-Pimephales promelas (fathead minnow)-90 mg/l-96 h

NOEC-Cyprinus carpio (Carp)-5 mg/l-28 d

Toxicity to daphnia and

other aquatic invertebrates: mortality NOEC-Daphnia magna (Water flea)-60 mg/l-48 h **Persistence/degradation** Biodegradability Result: 100 %-Readily biodegradable

Environmental Harmful to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contaminated packaging or unused product as per local law and regulations.

There are many pieces of legislation covering waste disposal and they differ in each state and territory, so each user must refer to laws operating in their area. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

SECTION 14: TRANSPORT INFORMATION

UN number 2074

Proper shipping name ACRYLAMIDE, SOLID

Hazard class 6.1 Packaging group III

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance/mixture: no data available

SECTION 16: OTHER INFORMATION

Product Use: Laboratory Reagent.

Please read all labels carefully before using product.

По вопросам продаж и поддержки обращайтесь:

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