

# SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Revision Date Aug 01, 2018

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

1.1 Product identifier

Product name ELECTROSOLV 403

CAS-No. -

Product code GN1274

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

Identified uses Chemical for analysis and production

1.3 Details of the supplier of the safety data sheet

Company RCI LABSCAN LIMITED.

24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand

Telephone number (662) 613-7911-4 Fax number (662) 613-7915

1.4 Emergency Telephone Number

Emergency phone (662) 613-7911-4

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

### 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Dermal (Category 3), H311

Skin irritation (Category 2), H315

Serious eye damage (Category 1), H318 Acute toxicity, Inhalation (Category 3), H331 Reproductive toxicity (Category 2), H361f

Specific target organ toxicity - single exposure (Category 3), H336 Specific target organ toxicity - single exposure (Category 1), Eyes, H370

Specific target organ toxicity - repeated exposure, (Category 2), Inhalation, H373

Aspiration hazard (Category 1), H304 Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements

# Labelling according Regulation (EC) No 1272/2008

### Pictogram











Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled. H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

RCI Labscan Limited. Page 1 of 10

H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs (eyes).

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

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe vapours.

P264 Wash hand thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

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

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

P302 + P352 IF ON SKIN: Wash with plenty water.

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

with water [or shower].

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P312 Call a POISON CENTER/doctor/if you feel unwell.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.
P370 + P378 In case of fire: Use carbon dioxide, dry chemical or foam to extinguish.

P391 Collect spillage.

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

P405 Store locked up.

2.3 Other hazards None

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

### 3.1 Substances

Not applicable

# 3.2 Mixture

### Mixture of aliphatic hydrocarbon (C5-C6)

Synonyms Petroleum benzine, Petroleum spirit.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 64742-49-0 265-151-9 649-328-00-1 - 75-80

RCI Labscan Limited. Page 2 of 10

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Comp	onent	Concentration	Classification	
Mixture of aliph	Mixture of aliphatic hydrocarbon (C5-C6)			
CAS-No 64	742-49-0	75-80	Flammable liquids (Category 2), H225	
EC-No 26	5-151-9		Skin irritation (Category 2), H315	
EC-Index-No 64	EC-Index-No 649-328-00-1		Reproductive toxicity (Category 2), H361f	
			Specific target organ toxicity - single exposure (Category	
			3), H336	
			Specific target organ toxicity - repeated exposure,	
			(Category 2), Inhalation, H373	
			Aspiration hazard (Category 1), H304	
			Chronic aquatic toxicity (Category 2), H411	

### **Ethanol**

Synonyms Ethyl alcohol Denatured, Denatured alcohol, Ethanol Denatured.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 64-17-5 200-578-6 603-002-00-5  $C_2H_5OH$  46.07 g/mol 10-15

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Concentration	Classification
Ethanol			
CAS-No	64-17-5	10-15%	Flammable liquids (Category 2), H225
EC-No	200-578-6		Eye irritation (Category 2), H319
EC-Index-	No 603-002-00-5		

# Propan-1-ol

Synonyms 1-Propanol, n-Propyl alcohol, 1-Hydroxy propane, Ethyl carbinol, n-Propanol.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 71-23-8 200-746-9 603-003-00-0  $CH_3CH_2CH_2OH$  60.10 g/mol 5-10

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Concentration	Classification
Propan-1-c	ol		
CAS-No	71-23-8	5-10%	Flammable liquids (Category 2), H225
EC-No	200-746-9		Serious eye damage (Category 1), H318
EC-Index-N	lo 603-003-00-0		Specific target organ toxicity - single exposure (Category
			3), H336

### Methanol

Synonyms Methyl alcohol, Carbinol, Wood alcohol.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 67-56-1 200-659-6 603-001-00-X CH $_3$ OH 32.04 g/mol 1-5

# Hazardous ingredients according to Regulation (EC) No 1272/2008

С	omponent	Concentration	Classification
Methanol			
CAS-No	67-56-1	1-5%	Flammable liquids (Category 2), H225
EC-No	200-659-6		Acute toxicity, Oral (Category 3), H301
EC-Index-No 603-001-00-X			Acute toxicity, Dermal (Category 3), H311
			Acute toxicity, Inhalation (Category 3), H331
			Specific target organ toxicity - single exposure (Category
			1), Eyes, H370

RCI Labscan Limited. Page 3 of 10

### Propan-2-ol

Synonyms iso-Propanol, Isopropyl alcohol, Dimethyl carbinol, 2-Propanol.

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 67-63-0 200-661-7 603-117-00-0  $(CH_3)_2CHOH$  60.10 g/mol 1-5

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Co	mponent	Concentration	Classification
Propan-2-ol			
CAS-No	67-63-0	1-5%	Flammable liquids (Category 2), H225
EC-No	200-661-7		Eye irritation (Category 2), H319
EC-Index-No	603-117-00-0		Specific target organ toxicity - single exposure (Category
			3), Central nervous system, H336

For the full text of the H-Statements mentioned in this Section, see Section 16

### 3.3 Stabilized

### Denatoniumbenzoate

Synonyms N,N-diethyl-N-[2-(2,6-dimethylphenylamino)-2-oxoethyl]-Benzylammonium benzoate

CAS-No EC-No EC-Index-No Formula Molecular Weight Weight % 3734-33-6 223-095-2 -  $C_{28}H_{34}N_2O_3$  446.5 g/mol <1

# Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Concentration	Classification
Denatoniumbenzoate			
CAS-No	3734-33-6	<1%	Acute toxicity, Oral (Category 4), H302
EC-No	223-095-2		Acute toxicity, Inhalation (Category 4), H332
EC-Index-N	lo -		

For the full text of the H-Statements mentioned in this Section, see Section 16

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Inhalation Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Skin contact Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Wash contaminated clothing before reuse. Contaminated combustible material, e.g. clothing ignites more readily and burns fiercely. Eye contact If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention. Ingestion Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an

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

unconscious person.

The most important known symptoms and effects are described in section 2.2 and section 11

RCI Labscan Limited. Page 4 of 10

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

After swallowing, avoid vomiting. Risk of aspiration. Keep airways free. In case of spontaneous vomiting: Risk of aspiration. Pulmonary failure possible.

# **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

Extinguish with carbon dioxide, dry chemical or foam. In the event of fire, cool tanks with water spray.

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

Vapors may form explosive mixture with air. Flash back possible over considerable distance.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

### 5.4 Further information

Standard procedure for chemical fires. Take measures to prevent electrostatic charging. Prevent firefighting water from entering surface water or groundwater.

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

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

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Remove all sources of ignition. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

### 6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

# 6.3 Methods and materials for containment and cleaning up

Spillage: May react with combustible substances creating fire or explosion hazard and formation of toxic fumes. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Soak up with inert absorbent material (e.g. sand, silica gel). Prevent liquid entering sewers, basements and workpits; vapor may create explosive atmosphere. Transfer to covered steel drums. Dispose of promptly.

### 6.4 Reference to other sections

For disposal see Section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Keep container tightly closed. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only in area provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Do not empty into drains.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed at room temperature in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep out of direct sunlight and away from incompatible materials. Store in original container. Electrical equipment should be protected to the appropriate standard.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

RCI Labscan Limited. Page 5 of 10

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

### 8.1 Control parameters

### 8.2 Exposure controls

# Appropriate engineering controls

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

# Individual protection measures (Personal protective equipment, PPE)

### Eye/face protection

Goggles giving complete protection to eyes.

## Skin protection

Chemical resistant apron / flame retardant antistatic protective clothing, heavy duty work shoes.

Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

Liquid

### Respiratory protection

Appearance: Form

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter AX (EN 371).

# **Environmental exposure controls**

Prevent liquid entering sewers, basements and workpits.

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

### 9.1 Information on basic physical and chemical properties

: Color Colorless Odour Benzene like Odour Threshold Not Available Not Available рΗ Melting point/range Not Available Boiling point/range Not Available Flash point Not Available Evaporation rate Not Available Flammability (solid, gas) Not Available Explosion limits: lower Not Available upper Not Available Vapour Pressure Not Available Relative vapour density Not Available Not Available Density Water solubility Not Available Partition coefficient (n-octanol/water) Not Available Auto-Ignition temperature Not Available **Decomposition Temperature** Not Available Viscosity Not Available Explosive properties Not Explosive

Oxidizing properties The substance or mixture is not classified as oxidizing

RCI Labscan Limited. Page 6 of 10

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

Highly flammable. Explosible with air in a vaporous/gaseous state.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Risk of explosion in contact with strong oxidizing.

The substance can react dangerously with strong oxidizing agents.

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong oxidizing agents. Unsuitable working materials: Various plastics, rubber

### 10.6 Hazardous decomposition products

Carbon monoxides, Carbon dioxides, (Hazardous decomposition products from under fire condition).

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Mixture**

# **Acute toxicity**

Not Available

### **Acute oral toxicity**

Symptoms: nausea.

### Acute inhalation toxicity

Irritation symptoms in the respiratory tract, drowsiness.

### Skin corrosion/irritation

Slight irritations. Degreasing effect on the skin, Danger of skin absorption.

# Serious eye damage/eye irritation

Slight irritations.

# Respiratory or skin sensitization

Not Available

# Germ cell mutagenicity

Not Available

# Carcinogenicity

Not Available

# Reproductive toxicity

Not Available

# Teratogenicity

Not Available

# Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

## Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### **Aspiration hazard**

May cause pneumonia or chemical pneumonitis.

#### **Further information**

After accidental swallowing the substance may pose a risk of aspiration. Passage into the lung (vomiting) can result in a condition resembling pneumonia (chemical pneumonitis).

After absorption: Headache, dizziness, agitation, spasms, unconsciousness.

Cardiovascular failure and respiratory paralysis.

Damage of lungs.

The product should be handled with the care usual when dealing with chemicals.

# **SECTION 12: Ecological information**

#### **Mixture**

## 12.1 Toxicity

Not Available

### 12.2 Persistence and degradability

Biodegradability Not Available

### 12.3 Bioaccumulative potential

Partition coefficient (n-octanol/water) Not Available

### 12.4 Mobility in soil

Not Available

# 12.5 Other adverse effects

Biological effects: toxic for aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not allow to enter waters, waste water or soil.

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### **Product**

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

### Contaminated packaging

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

RCI Labscan Limited. Page 8 of 10

# **SECTION 14: Transport information**

Land Transport (ADR/RID)

UN Number 1993

UN proper shipping name FLAMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES, ETHANOL,

PROPAN-1-OL, METHANOL, PROPAN-2-OL)

Transport hazard class(es) 3
Packing group II
Environmental hazards Yes
Special precautions for user Yes

Sea transport (IMDG)

UN Number 1993

UN proper shipping name FLAMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES, ETHANOL,

PROPAN-1-OL, METHANOL, PROPAN-2-OL)

Transport hazard class(es)

Packing group

Marine pollutant

Special precautions for user

EmS

Yes

F-E S- E

Air transport (IATA)

UN Number 1993

UN proper shipping name FLAMABLE LIQUID, N.O.S. (PETROLEUM DISTILLATES, ETHANOL,

PROPAN-1-OL, METHANOL, PROPAN-2-OL)

Transport hazard class(es) 3
Packing group II
Environmental hazards Yes
Special precautions for user No

# River transport (AND/ADNR)

(Not examined)

# **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or Mixture Not Available

# 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

# **SECTION 16: Other information**

# Full text of H-Statements referred to under sections 2 and 3

H225	Highly flammable liquid and vapour.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation

1000 Iviay cause respiratory irritation

RCI Labscan Limited. Page 9 of 10

H336	May cause drowsiness or dizziness.
------	------------------------------------

H361f Suspected of damaging fertility or the unborn child.

H370 Causes damage to organs (eyes).

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

H411 Toxic to aquatic life with long lasting effects.

### Recommended restrictions

Take notice of labels and safety data sheets for the working. Chemicals Take necessary action to avoid static electricity discharge.

### Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

#### **Further information**

Contact to RCI Labscan Limited.

### **Revision Date**

01/08/2018

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

RCI Labscan Limited. Page 10 of 10