

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/15/2014 Version: 1.0

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

Product identifier

Product form : Mixture

Product name : Extraction Solvent

Product code : LC14180

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

Use of the substance/mixture : For laboratory and manufacturing use only.

Details of the supplier of the safety data sheet

LabChem Inc

Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court

Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com

Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Flam. Liq. 2 H225 Acute Tox. 4 (Oral) H302 Carc. 1A H350 H361 Repr. 2 STOT SE 1 H370

Full text of H-phrases: see section 16

Label elements 2.2.

GHS-US labelling

Hazard pictograms (GHS-US)



GHS02



GHS07

GHS08

Signal word (GHS-US)

Hazard statements (GHS-US) H225 - Highly flammable liquid and vapour

H302 - Harmful if swallowed H350 - May cause cancer

H361 - Suspected of damaging fertility or the unborn child (oral)

H370 - Causes damage to organs (liver, kidneys, central nervous system, optic nerve)

Precautionary statements (GHS-US) 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, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe mist, spray, vapours

P264 - Wash exposed skin thoroughly after handling P270 - Do not eat, drink or smoke when using this product

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

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

P330 - If swallowed, rinse mouth

P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for

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extinction

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

P405 - Store locked up

P501 - Dispose of contents/container to comply with local, state and federal regulations

2.3. Other hazards

Other hazards not contributing to the classification

: None.

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Ethanol	(CAS No) 64-17-5	89.6	Flam. Liq. 2, H225 Carc. 1A, H350 Repr. 2, H361
Methanol	(CAS No) 67-56-1	5	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT SE 1, H370
Isopropyl Alcohol (2-Propanol)	(CAS No) 67-63-0	5	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H335
Hydrochloric Acid, 37% w/w	(CAS No) 7647-01-0	0.4	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label).

First-aid measures after inhalation

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

First-aid measures after skin contact

: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.

First-aid measures after eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER/doctor/physician if you feel unwell.

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

Symptoms/injuries

: Suspected of damaging fertility or the unborn child. Causes damage to organs.

Symptoms/injuries after inhalation

: Coughing. May cause cancer by inhalation.

Symptoms/injuries after skin contact

Caustic burns/corrosion of the skin.

Symptoms/injuries after ingestion

Swallowing a small quantity of this material will result in serious health hazard.

Symptoms/injuries upon intravenous

administration

: Not available.

Chronic symptoms

: Dry skin. Cracking of the skin. Lung tissue affection/degeneration. Affection of the renal tissue. Affection/discolouration of the teeth.

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

Obtain medical assistance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Protective clothing.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing mist, Vapors, spray.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Do not breathe mist, vapours, spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after

handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/...

equipment.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources.,

Ignition sources, incompatible materials. Keep in fireproof place. Keep container tightly closed.

Incompatible products : Strong oxidizers. metals. Strong bases.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: ignition sources. heat sources.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: (strong) bases. oxidizing agents. metals.

Storage area : Fireproof storeroom.

Packaging materials : MATERIAL TO AVOID: aluminium, copper, iron, steel, tin, zinc.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Extraction Solvent	
ACGIH	Not applicable
OSHA	Not applicable
Ethanol (64-17-5)	
ACGIH	Not applicable

8.2. Exposure controls

Appropriate engineering controls : Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure.

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Colour : Colourless
Odour : mild

Odour threshold No data available No data available Relative evaporation rate (butylacetate=1) : No data available No data available Melting point Freezing point No data available : No data available **Boiling point** Flash point No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density : No data available

Water: Solubility in water of component(s) of the mixture :

• Hydrochloric Acid, 37% w/w: Complete • Ethanol: Complete • Methanol: Complete •

Isopropyl Alcohol (2-Propanol): Complete

Soluble in water.

Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : Not applicable.
Oxidising properties : None.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Solubility

No additional information available

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10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong oxidizers. metals. Strong bases.

10.6. Hazardous decomposition products

Hydrogen chloride. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Extraction Solvent	
ATE US (oral)	1977.401 mg/kg bodyweight
Hydrochloric Acid, 37% w/w (7647-01-0)	·
LD50 oral rat	700 mg/kg
LD50 dermal rabbit	5010 mg/kg
ATE US (oral)	700.000 mg/kg bodyweight
ATE US (dermal)	5010.000 mg/kg bodyweight
Ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg (Rat; Experimental value,Rat; Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit; Literature study)
ATE US (oral)	10740.000 mg/kg bodyweight
Methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE US (oral)	100.000 mg/kg bodyweight
ATE US (dermal)	300.000 mg/kg bodyweight
ATE US (gases)	700.000 ppmv/4h
ATE US (vapours)	3.000 mg/l/4h
ATE US (dust,mist)	0.500 mg/l/4h
Isopropyl Alcohol (2-Propanol) (67-63-0)
LD50 oral rat	5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE US (oral)	5045.000 mg/kg bodyweight
ATE US (dermal)	12870.000 mg/kg bodyweight
ATE US (vapours)	73.000 mg/l/4h
ATE US (dust,mist)	73.000 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Hydrochloric Acid, 37% w/w (7647-01-0)	
IARC group	3 - Not classifiable

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Hydrochloric Acid, 37% w/w (7647-01-0)	
Ethanol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Isopropyl Alcohol (2-Propanol) (67-63-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Suspected of damaging fertility or the unborn child (oral).
Specific target organ toxicity (single exposure)	: Causes damage to organs (liver, kidneys, central nervous system, optic nerve).
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met. Harmful if swallowed.
Symptoms/injuries after inhalation	: Coughing. May cause cancer by inhalation.
Symptoms/injuries after skin contact	: Caustic burns/corrosion of the skin.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.
Symptoms/injuries upon intravenous administration	: Not available.
Chronic symptoms	: Dry skin. Cracking of the skin. Lung tissue affection/degeneration. Affection of the renal tissue. Affection/discolouration of the teeth.

SECTION 12: Ecological information

12.1. Toxicity

Hydrochloric Acid, 37% w/w (7647-01-0)		
LC50 fishes 1	282 mg/l (96 h; Gambusia affinis; Pure substance)	
EC50 Daphnia 1	< 56 mg/l (72 h; Daphnia magna; Pure substance)	
LC50 fish 2	862 mg/l (Leuciscus idus; Pure substance)	
TLM fish 1	282 ppm (96 h; Gambusia affinis; Pure substance)	
Ethanol (64-17-5)		
LC50 fishes 1	14200 mg/l (96 h; Pimephales promelas; Nominal concentration)	
EC50 Daphnia 1	9300 mg/l (48 h; Daphnia magna)	
LC50 fish 2	13000 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 2	10800 mg/l (24 h; Daphnia magna)	
Threshold limit other aquatic organisms 1	65 mg/l (72 h; Protozoa)	
Threshold limit algae 1	1450 mg/l (192 h; Microcystis aeruginosa; Growth rate)	
Threshold limit algae 2	5000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)	
Methanol (67-56-1)		
LC50 fishes 1	15400 mg/l (96 h; Lepomis macrochirus; Lethal)	
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Lethal)	
LC50 fish 2	10800 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 2	24500 mg/l (48 h; Daphnia magna)	
Threshold limit other aquatic organisms 1	6600 mg/l (16 h; Pseudomonas putida)	
Threshold limit algae 1	530 mg/l (192 h; Microcystis aeruginosa)	
Threshold limit algae 2	8000 mg/l (168 h; Scenedesmus quadricauda)	
Isopropyl Alcohol (2-Propanol) (67-63-0)		
LC50 fishes 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)	
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)	
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)	
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)	
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)	

12.2. Persistence and degradability

Extraction Solvent		
Persistence and degradability	Not established.	
Hydrochloric Acid, 37% w/w (7647-01-0)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available.	

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Hydrochloric Acid, 37% w/w (7647-01-0)	
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Ethanol (64-17-5)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O₂/g substance
Chemical oxygen demand (COD)	1.70 g O₂/g substance
ThOD	2.10 g O₂/g substance
BOD (% of ThOD)	0.43 % ThOD
Methanol (67-56-1)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil.
Biochemical oxygen demand (BOD)	0.6 - 1.12 g O₂/g substance
Chemical oxygen demand (COD)	1.42 g O₂/g substance
ThOD	1.5 g O₂/g substance
BOD (% of ThOD)	0.8 % ThOD
Isopropyl Alcohol (2-Propanol) (67-63-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. No (test)data on mobility of the substance available.
Biochemical oxygen demand (BOD)	1.19 g O₂/g substance
Chemical oxygen demand (COD)	2.23 g O₂/g substance
ThOD	2.40 g O₂/g substance
BOD (% of ThOD)	0.49 % ThOD

12.3. **Bioaccumulative potential**

Extraction Solvent		
Bioaccumulative potential	Not established.	
Hydrochloric Acid, 37% w/w (7647-01-0)		
Log Pow	0.25 (QSAR)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Ethanol (64-17-5)		
Log Pow	-0.31 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	
Methanol (67-56-1)		
BCF fish 1	< 10 (Leuciscus idus)	
Log Pow	-0.77 (Experimental value; Other)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
Isopropyl Alcohol (2-Propanol) (67-63-0)		
Log Pow	0.05 (Experimental value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).	

12.4. Mobility in soil

Hydrochloric Acid, 37% w/w (7647-01-0)		
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.	
Ethanol (64-17-5)		
Surface tension	0.022 N/m (20 °C)	
Methanol (67-56-1)		
Surface tension	0.023 N/m (20 °C)	
Isopropyl Alcohol (2-Propanol) (67-63-0)		
Surface tension	0.021 N/m (25 °C)	

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12.5 Other adverse effects

Effect on ozone layer

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

: Dispose in a safe manner in accordance with local/national regulations. Dispose of Waste disposal recommendations

contents/container to comply with local, state and federal regulations.

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

: Handle empty containers with care because residual vapours are flammable. Additional information

Avoid release to the environment. Ecology - waste materials

SECTION 14: Transport information

In accordance with DOT

Hazard labels (DOT)

Transport document description : UN1993 Flammable liquids, n.o.s. (Ethanol, methanol), 3, II

UN-No.(DOT) : UN1993

DOT Proper Shipping Name : Flammable liquids, n.o.s.

Department of Transportation (DOT) Hazard

Classes

: 3 - Flammable liquid

DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T7 - 4 178.274(d)(2) Normal...... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk

temperature during transport, and tf is the temperature in degrees celsius of the liquid during

TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when

the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150 DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242 DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

Additional information

Other information : No supplementary information available.

No additional information available

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Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Extraction Solvent	
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Hydrochloric Acid, 37% w/w (7647-01-0)		
RQ (Reportable quantity, section 304 of EPA's List of Lists):	5000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
Methanol (67-56-1)		
Listed on United States SARA Section 313		
RQ (Reportable quantity, section 304 of EPA's List of Lists):	5000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard	
Isopropyl Alcohol (2-Propanol) (67-63-0)		
Listed on United States SARA Section 313		

15.2. International regulations

CANADA

Extraction Solvent	
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Hydrochloric Acid, 37% w/w (7647-01-0)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Class E - Corrosive Material			
Methanol (67-56-1)				
Listed on the Canadian DSL (Domestic Sustances List)				
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects			
Isopropyl Alcohol (2-Propanol) (67-63-0)				
WHMIS Classification	Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects			

EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

13.2.2.	National regulations		
Hydroc	hloric Acid, 37% w/w (7647-01-0)		
Listed o	Listed on the Canadian IDL (Ingredient Disclosure List)		
Ethanol (64-17-5)			
Listed o	Listed on IARC (International Agency for Research on Cancer)		
Methanol (67-56-1)			
Listed o	n the Canadian IDL (Ingredient Disclosure List)		

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15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity

Methanol (67-56-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
No	Yes	No	No	23000 μg/day

SECTION 16: Other information

Other information : None.

xt of H-phrases: see section 16:			
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard, Category 3		
Carc. 1A	Carcinogenicity, Category 1A		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A		
Flam. Liq. 2	Flammable liquids, Category 2		
Repr. 2	Reproductive toxicity, Category 2		
Skin Corr. 1B	Skin corrosion/irritation, Category 1B		
STOT SE 1	Specific target organ toxicity — single exposure, Category 1		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3,		
	Respiratory tract irritation		
H225	Highly flammable liquid and vapour		
H301	Toxic if swallowed		
H302	Harmful if swallowed		
H311	Toxic in contact with skin		
H314	Causes severe skin burns and eye damage		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H331	Toxic if inhaled		
H335	May cause respiratory irritation		
H350	May cause cancer		
H361	Suspected of damaging fertility or the unborn child		
H370	Causes damage to organs		
H402	Harmful to aquatic life		

: 2 - Intense or continued exposure could cause temporary NFPA health hazard

incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.

HMIS III Rating

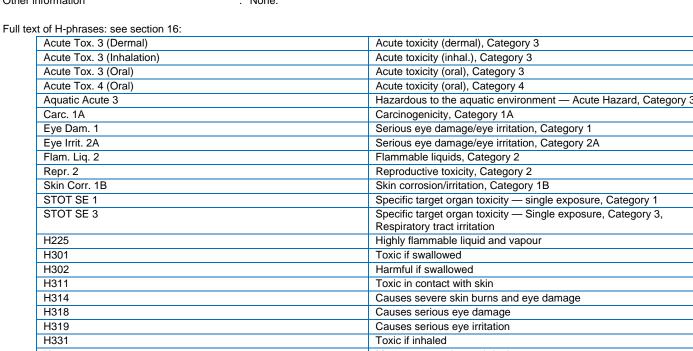
: 2 Moderate Hazard - Temporary or minor injury may occur Health

Flammability : 3 Serious Hazard : 1 Slight Hazard Physical

Personal Protection : D

SDS US (GHS HazCom 2012)

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10/15/2014

EN (English)

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