

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products

Regulations (HPR) WHMIS 2015

Date of issue: 8/23/2019 Revision date: 8/23/2019

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

#### **Product identifier**

Product form : Mixture

Product name : Black First Contact Polymer Solutions - All Sizes

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

#### 1.2.1. Relevant identified uses

Main use category : Industrial use

Use of the substance/mixture Aerospace, Astronomical and Photonic Coatings for Surface Protection, Cleaning &

Decontamination

#### 1.2.2. Uses advised against

No additional information available

## Details of the supplier of the safety data sheet

#### Manufacturer

Photonic Cleaning Technologies, LLC 1895 Short Lane Buildings 1 & 2 Platteville, WI 53818 USA T 1-608-467-5396 safety@photoniccleaning.com

#### **EU Distributor**

see www.photoniccleaning.com

#### **Emergency telephone number**

**Emergency number** : Chemtel US: +1-800-255-3924 24hrs/day 7 days/week

International Emergency:+1-813-248-0585 or please contact regional representative in your

country

## SECTION 2: Hazards identification

## Classification of the substance or mixture

## Classification according to Regulation (EC) No. 1272/2008 [CLP], OSHA HazCom 2012, and WHMIS 2015

Flam. Liq. 2 Eye Dam. 1 H318 STOT SE 3 H336

Full text of hazard classes and H-statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## Label elements

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

Hazard pictograms (CLP)



GHS02



GHS07

Signal word (CLP) : Danger

Hazardous ingredients (CLP) Acetone; Isopropyl alcohol; Ethyl lactate Hazard statements (CLP) H225 - Highly flammable liquid and vapour. H318 - Causes serious eye damage.

H336 - May cause drowsiness or dizziness.

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor

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

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulations

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EUH-statements (CLP)

: EUH066 - Repeated exposure may cause skin dryness or cracking

Unknown acute toxicity (CLP) - SDS

30% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 90% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)

50% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Unknown hazards to the aquatic environment

(CLP)

: Contains 55 % of components with unknown hazards to the aquatic environment

## Labelling according to OSHA HazCom 2012 and WHMIS 2015

Hazard pictograms (OSHA & WHMIS)





Signal word (OSHA & WHMIS)

Hazard statements (OSHA & WHMIS)

Danger

: Extremely flammable liquid and vapour. Causes serious eye damage. May cause drowsiness

or dizziness.

Precautionary statements (OSHA & WHMIS)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/ gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Unknown acute toxicity (OSHA & WHMIS) : Not applicable

## 2.3. Other hazards

Other hazards not contributing to the

classification (CLP)

: Not applicable

Other hazards not contributing to the classification (OSHA & WHMIS)

: Repeated exposure may cause skin dryness or cracking.

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

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

CLP:			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isopropyl alcohol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	10 - 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Acetone	(CAS-No.) 67-64-1 (EC-No.) 200-662-2 (EC Index-No.) 606-001-00-8	10 - 30	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl acetate	(CAS-No.) 141-78-6 (EC-No.) 205-500-4 (EC Index-No.) 607-022-00-5	< 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Ethyl lactate (Note C)	(CAS-No.) 97-64-3 (EC-No.) 202-598-0 (EC Index-No.) 607-129-00-7	< 10	Flam. Liq. 3, H226 Eye Dam. 1, H318 STOT SE 3, H335
n-Propyl acetate (Note C)	(CAS-No.) 109-60-4 (EC-No.) 203-686-1 (EC Index-No.) 607-024-00-6	< 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Carbon black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	0-0.2%	

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Full text of H-statements: see section 16

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OSHA Hazcom 2012 and WHMIS 2015:		
Name	Product identifier	%
Ethyl alcohol	(CAS-No.) 64-17-5	20 - 60
Isopropyl alcohol	(CAS-No.) 67-63-0	10 - 50
1,3-Dioxolane	(CAS-No.) 646-06-0	20 - 45
Acetone	(CAS-No.) 67-64-1	10 - 30
Methane, dimethoxy-	(CAS-No.) 109-87-5	10 - 30
Ethyl acetate	(CAS-No.) 141-78-6	< 10
Ethyl lactate	(CAS-No.) 97-64-3	< 10
n-Propyl acetate	(CAS-No.) 109-60-4	< 10

<sup>\*</sup>The concentrations listed represent actual ranges that result from batch variability.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid measures after skin contact

: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash clothing before re-using. Get medical attention if irritation develops and

First-aid measures after eye contact

persists.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion

: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation

: May cause irritation to the respiratory tract. May cause drowsiness or dizziness.

Symptoms/effects after skin contact

: May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact

: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion

: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

Suitable extinguishing media

: Water spray. Dry powder. Carbon dioxide. Alcohol-resistant foam.

Unsuitable extinguishing media

: None known.

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

Fire hazard

: Products of combustion may include, and are not limited to: oxides of carbon. Oxides of nitrogen. Highly flammable liquid and vapour. Vapours are heavier than air and may spread along floors. Be careful to flashback of fire.

Explosion hazard

: May form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Firefighting instructions

: Cool closed containers exposed to fire with water spray.

Protection during firefighting

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

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

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

General measures

: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Remove all sources of ignition. Use only non-sparking tools.

## 6.1.1. For non-emergency personnel

No additional information available

## 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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## 6.3. Methods and material for containment and cleaning up

For containment

: Small spills: Let dry and peel up polymer; rinse with water. Large spills: Dike and contain spill; pump off product. Absorb residues with: inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. Stop leak if safe to do so.

Methods for cleaning up

: Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/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

: Do not get in eyes. Do not swallow. Avoid contact with skin and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof equipment. Use only non-sparking tools. Take action to prevent static discharges. Wear personal protective equipment. Ensure adequate ventilation. Protect from sunlight.

Hygiene measures

: Wash contaminated clothing before reuse. Always wash hands after handling the product.

## 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed.

Storage conditions

Suitable materials for containers: Carbon steel (Iron). Stainless steel 1.4401, Stainless steel 1.4301 (V2). Tin (Tinplate). Glass. Zinc coated. Polyethylene. Polypropylene. Nylon. Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Protect from sunlight. Keep cool. Store locked up.

#### 7.3. Specific end use(s)

Not available.

## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

Ethyl alcohol (64-17-5)			
ACGIH	ACGIH STEL (ppm)	1000 ppm	
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
IDLH	US IDLH (ppm)	3300 ppm (10% LEL)	
NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm	
Acetone (67-64-1)			
EU	IOELV TWA (mg/m³)	1210 mg/m³	
EU	IOELV TWA (ppm)	500 ppm	
United Kingdom	WEL TWA (mg/m³)	1210 mg/m³	
United Kingdom	WEL TWA (ppm)	500 ppm	
United Kingdom	WEL STEL (mg/m³)	3620 mg/m³	
United Kingdom	WEL STEL (ppm)	1500 ppm	
ACGIH	ACGIH TWA (ppm)	250 ppm	
ACGIH	ACGIH STEL (ppm)	500 ppm	
OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
IDLH	US IDLH (ppm)	2500 ppm (10% LEL)	
NIOSH	NIOSH REL (TWA) (mg/m³)	590 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	250 ppm	
Isopropyl alcohol (67-63-0)	Isopropyl alcohol (67-63-0)		
United Kingdom	WEL TWA (mg/m³)	999 mg/m³	
United Kingdom	WEL TWA (ppm)	400 ppm	
United Kingdom	WEL STEL (mg/m³)	1250 mg/m³	
United Kingdom	WEL STEL (ppm)	500 ppm	
ACGIH	ACGIH TWA (ppm)	200 ppm	
ACGIH	ACGIH STEL (ppm)	400 ppm	

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Isopropyl alcohol (67-63-0)			
OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	400 ppm	
IDLH	US IDLH (ppm)	2000 ppm (10% LEL)	
NIOSH	NIOSH REL (TWA) (mg/m³)	980 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	400 ppm	
NIOSH	NIOSH REL (STEL) (mg/m³)	1225 mg/m³	
NIOSH	NIOSH REL (STEL) (ppm)	500 ppm	
Ethyl acetate (141-78-6)		<u>                                     </u>	
EU	IOELV TWA (mg/m³)	734 mg/m³	
EU	IOELV TWA (ppm)	200 ppm	
EU	IOELV STEL (mg/m³)	1468 mg/m³	
EU	IOELV STEL (ppm)	400 ppm	
United Kingdom	WEL TWA (mg/m³)	734 mg/m³	
United Kingdom	WEL TWA (ppm)	200 ppm	
United Kingdom	WEL STEL (mg/m³)	1468 mg/m³	
United Kingdom	WEL STEL (ppm)	400 ppm	
ACGIH	ACGIH TWA (ppm)	400 ppm	
OSHA	OSHA PEL (TWA) (mg/m³)	1400 mg/m³	
OSHA	OSHA PEL (TWA) (nighti )	400 ppm	
IDLH		2000 ppm (10% LEL)	
NIOSH	US IDLH (ppm)  NIOSH REL (TWA) (mg/m³)	1400 mg/m³	
NIOSH	NIOSH REL (TWA) (IIIg/III )	400 mg/m 400 ppm	
	NIOSH REL (TWA) (ppill)	400 ppm	
1,3-Dioxolane (646-06-0)			
ACGIH	ACGIH TWA (ppm)	20 ppm	
Methane, dimethoxy- (109-87	7-5)		
ACGIH	ACGIH TWA (ppm)	1000 ppm	
OSHA	OSHA PEL (TWA) (mg/m³)	3100 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
IDLH	US IDLH (ppm)	2200 ppm (10% LEL)	
NIOSH	NIOSH REL (TWA) (mg/m³)	3100 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm	
n-Propyl acetate (109-60-4)			
	WEL TWA (mg/m³)	849 mg/m³	
United Kingdom	WEL TWA (ppm)	200 ppm	
United Kingdom	WEL STEL (mg/m³)	1060 mg/m³	
United Kingdom	WEL STEL (ppm)	250 ppm	
ACGIH	ACGIH TWA (ppm)	100 ppm (Propyl acetate isomers)	
ACGIH	ACGIH STEL (ppm)	150 ppm (Propyl acetate isomers)	
OSHA	OSHA PEL (TWA) (mg/m³)	840 mg/m <sup>3</sup>	
OSHA	OSHA PEL (TWA) (ppm)	200 ppm	
IDLH	US IDLH (ppm)	1700 ppm	
NIOSH	NIOSH REL (TWA) (mg/m³)	840 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	200 ppm	
NIOSH	NIOSH REL (STEL) (mg/m³)	1050 mg/m³	
NIOSH	NIOSH REL (STEL) (ppm)	250 ppm	
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#### 8.2. Exposure controls

## Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Chemical resistant gloves (according to European standard NF EN 374 or equivalent) (CLP)

Wear suitable gloves resistant to chemical penetration (OSHA & WHMIS)

#### Eye protection:

Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. (CLP)

Wear eye/face protection. (OSHA & WHMIS)

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### **Environmental exposure controls:**

Avoid release to the environment.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

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

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : No data available
Odour : Ether-like odour
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : Unknown > -95 °C (-139 °F)

Freezing point : No data available

Boiling point : Unknown < 75.6 °C (168.08 °F) Flash point : Unknown < -6 °C (21.2 °F)

Auto-ignition temperature :  $\approx$  250 °C for formyl glycol (Directive 92/69/EEC, A.15) (482 °F)

Decomposition temperature :  $\approx 300 \, ^{\circ}\text{C} \, (572 \, ^{\circ}\text{F})$ 

Flammability (solid, gas) : Highly flammable liquid and vapour.

Vapour pressure : No data available Relative vapour density at 20 °C :  $\approx$  2 (estimated value)

Relative density : 1

Density : 1 g/cm³ -(20 °C) (68 °F)

Solubility : Solvents: > 1000 g/l (25  $^{\circ}$ C) (77  $^{\circ}$ F)

Partition coefficient n-octanol/water : No data available Viscosity, kinematic : No data available

Viscosity, dynamic : 5 cP - 70 cP (20 °C) (68 °F)

Explosive properties : None.

Oxidising properties : None.

Lower explosive limit (LEL) : For liquids not relevant for classification and labelling, The lower explosion point may be 2 – 15

°C below the flash point. Linear Estimate from LEL: 2 vol% based on acetone, ethanol,

isopropanol, ethyl acetate, formyl glycol 2,3,2,2,2 vol% each.

Upper explosive limit (UEL) : For liquids not relevant for classification and labelling. Linear Estimate from UEL: 12 vol%. acetone, ethanol, isopropanol, ethyl acetate, formylglycol: 3,19,unk,11,12 vol% each.

9.2. Other information

VOC content : 5 - 18 %

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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapour-air mixture.

## 10.3. Possibility of hazardous reactions

Reacts with: Acids. Vapours may form explosive mixture with air. Reacts with (strong) oxidizers.

## 10.4. Conditions to avoid

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

#### 10.5. Incompatible materials

Oxidizing agents. plastic and rubber. Acids. Bases. Amines. Oxygen. reducing agents.

## 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. May release flammable gases. Formaldehyde. Hydrogen.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.

Acute toxicity (dermal) : Not classified.

Acute toxicity (inhalation) : Not classified.

Acetone (67-64-1)	
LD50 oral rat	5800 mg/kg
LD50 dermal rabbit	> 15700 mg/kg
LC50 inhalation rat	50100 mg/m³ (Exposure time: 8 h)
ATE CA (oral)	5800 mg/kg bodyweight
ATE CA (vapours)	50.1 mg/l/4h
ATE CA (dust,mist)	50.1 mg/l/4h

Isopropyl alcohol (67-63-0)	
LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	4059 mg/kg
LC50 inhalation rat	72600 mg/m³ (Exposure time: 4 h)
ATE CA (oral)	5045 mg/kg bodyweight
ATE CA (Dermal)	4059 mg/kg bodyweight
ATE CA (vapours)	72.6 mg/l/4h
ATE CA (dust,mist)	72.6 mg/l/4h

Ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg
LD50 dermal rabbit	> 18000 mg/kg
LC50 inhalation rat	4000 ppm/4h
ATE CA (oral)	5620 mg/kg bodyweight
ATE CA (Gases)	4000 ppmv/4h

Ethyl lactate (97-64-3)	
LD50 oral rat	8200 mg/kg
LD50 dermal rabbit	> 5 g/kg
ATE CA (oral)	8200 mg/kg bodyweight

n-Propyl acetate (109-60-4)	
LD50 oral rat	8700 mg/kg
LD50 dermal rabbit	> 17756 mg/kg
ATE CA (oral)	8700 mg/kg bodyweight

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Unknown acute toxicity (CLP)	: 30% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
	90% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
	50% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Skin corrosion/irritation : Not classified.

Additional information : Based on available data, the classification criteria are not met. Repeated exposure may cause

skin dryness or cracking.

Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified.

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Additional information : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Not classified.

Additional information : Based on available data, the classification criteria are not met.

Carcinogenicity : Not classified.

Additional information : Based on available data, the classification criteria are not met.

Ethyl alcohol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Isopropyl alcohol (67-63-0)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified.

Additional information : Based on available data, the classification criteria are not met.

STOT-single exposure : May cause drowsiness or dizziness.

Acetone (67-64-1)	
May cause drowsiness or dizziness.	
May cause drowsiness or dizziness.	
Ethyl acetate (141-78-6)	
May cause drowsiness or dizziness.	
Ethyl lactate (97-64-3)	
May cause respiratory irritation.	
n-Propyl acetate (109-60-4)	
May cause drowsiness or dizziness.	

STOT-repeated exposure : Not classified.

Additional information : Based on available data, the classification criteria are not met.

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : May cause irritation to the respiratory tract. May cause drowsiness or dizziness. Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and

tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

diarrhea

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

## **SECTION 12: Ecological information**

LC50 fish 1

12.1. Toxicity		
Ecology - general	: May cause long-term adverse effects in the aquatic environment.	
Unknown hazards to the aquatic environment (CLP)	: Contains 55 % of components with unknown hazards to the aquatic environment	
Acute aquatic toxicity	: Not classified.	
Chronic aquatic toxicity	: Not classified.	
Ethyl alcohol (64-17-5)		
LC50 fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])	
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
Acetone (67-64-1)		
LC50 fish 1	4.74 - 6.33 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)	
LC50 fish 2	6210 - 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])	
EC50 Daphnia 1	10294 - 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
EC50 Daphnia 2	12600 - 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)	
Isopropyl alcohol (67-63-0)		

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9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

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According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015.

Isopropyl alcohol (67-63-0)			
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
EC50 72h algae (1)	> 1000 mg/l (Species: Desmodesmus subspicatus)		
EC50 96h algae (1)	> 1000 mg/l (Species: Desmodesmus subspicatus)		
Ethyl acetate (141-78-6)			
LC50 fish 1	220 - 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
LC50 fish 2	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])		
EC50 Daphnia 1	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
Methane, dimethoxy- (109-87-5)			
LC50 fish 1	h 1 6260 - 7800 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
n-Propyl acetate (109-60-4)			
LC50 fish 1	56 - 64 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
LC50 fish 2	56 - 64 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
2.2. Persistence and degradability			

First Contact Polymer Solutions		
Persistence and degradability	Not readily biodegradable (OECD). Limited biodegradability. Highly volatile liquid; easily eliminated from water by stripping.	

#### **Bioaccumulative potential** 12.3.

First Contact Polymer Solutions		
Bioaccumulative potential	Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected	
Ethyl alcohol (64-17-5)		
Partition coefficient n-octanol/water	-0.32	
Acetone (67-64-1)		
BCF fish 1	0.69	
Partition coefficient n-octanol/water	-0.24	
Isopropyl alcohol (67-63-0)		
Partition coefficient n-octanol/water	0.05 (25 °C)	
Ethyl acetate (141-78-6)		
BCF fish 1	30	
Partition coefficient n-octanol/water	0.6	
1,3-Dioxolane (646-06-0)		
Partition coefficient n-octanol/water	-0.37	

#### 12.4. Mobility in soil

No additional information available

### Results of PBT and vPvB assessment

No additional information available

## Other adverse effects

Additional information : No other effects known

## **SECTION 13: Disposal considerations**

### Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations. Incinerate at a licensed Product/Packaging disposal recommendations

installation. Empty containers should be taken for recycling.

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

## **SECTION 14: Transport information**

In accordance with ADR, DOT, and TDG

## **UN** number

UN-No. (ADR/ DOT/TDG) : 1170

## **UN** proper shipping name

Proper Shipping Name (ADR) : ETHYL ALCOHOL SOLUTION

Proper Shipping Name (DOT/TDG) : Ethyl alcohol solution

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## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015.

## 14.3. Transport hazard class(es)

Transport hazard class(es) (ADR/DOT/TDG) : 3

Danger labels (ADR/DOT/TDG)



#### 14.4. Packing group

Packing group (ADR/DOT/TDG) : II

#### 14.5. Environmental hazards

Dangerous for the environment

(ADR/DOT/TDG)

: No

Other information (ADR/DOT/TDG)

: No supplementary information available.

#### 14.6. Special precautions for user

Special transport precautions

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

## - Overland transport

Orange plates (ADR)

33 1170

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## **SECTION 15: Regulatory information (CLP)**

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

### **EU-Regulations:**

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

VOC content : 5 - 18 %

## US & CA Federal and State regulations:

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

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes:

None.

Data sources

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

## Abbreviations and acronyms:

°C - Degrees Celsius

°F – Degrees Fahrenheit

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.

ACGIH - American Conference of Governmental Industrial Hygienists

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

BEI – Biological Exposure Index

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## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830.

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015.

CAS - Chemical Abstracts Service

CLP - Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.

cP - centipoise (unit of dynamic viscosity)

cSt - centistokes (unit of kinematic viscosity)

DNEL - Derived No-effect Level

EC50 - Half maximal effective concentration

ECHA - European Chemicals Agency

EC-No. - European Community number

EU - European Union

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

h - Hours

IATA - International Air Transport Association

IDLH - Immediately Dangerous to Life or Health

IMDG – International Maritime Dangerous Goods

IOELV - Indicative Occupational Exposure Limit Value

kPa – kilopascal

Kow - Octanol-Water Partition Coefficient

LC50 - Median Lethal Concentration

LD50 - Median Lethal Dose

mg/l - Milligram per liter

mg/kg - Milligram per kilogram

mg/m3 - Milligram per cubic meter

Min - Minutes

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

N.O.S. - Not Otherwise Specified

OEL - Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic

ppm – Parts per million

PVC – Polyvinyl chloride

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - European Agreement concerning the International Carriage of Dangerous Goods by Rail

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TWA – Time Weighted Average

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

Revision date : 08/23/2019
Other information : None.

## Full text of H- and EUH-statements:

Tall toxt of IT and Lott ste	Nomonio.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Flam. Liq. 2	Flammable liquids, Category 2		
Flam. Liq. 3	Flammable liquids, Category 3		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis		
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
EUH066	Repeated exposure may cause skin dryness or cracking.		

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 2	H225	On basis of test data
Eye Dam. 1	H318	Calculation method
STOT SE 3	H336	Calculation method

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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