

# Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008



Issue date: 31-Jan-2024

Version: 1.0

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

### 1.1. Product identifier

SDS # XPEL-035-EU  
Product name XPEL Panel Prep

### Other means of identification

Pure substance/mixture Mixture  
Contains d-Limonene

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

Recommended Use Surface Cleaner  
Uses Advised Against No information available

### 1.3. Details of the supplier of the safety data sheet

Supplier  
XPEL, Inc.  
3251 I-35  
San Antonio, TX, 78219  
USA  
T +1 210-678-3700

#### For further information, please contact

Contact Point XPEL, Inc. PHONE: 1-210-678-3700  
Email Address support@xpel.com

### 1.4. Emergency phone number

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

Emergency Telephone Number - \$45 - (EC)1272/2008

Europe 112

## SECTION 2: Hazard identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flammable liquids Category 3 - (H226)  
Serious eye damage/eye irritation Category 2 - (H319)  
Skin sensitisation Category 1 - (H317)  
Chronic aquatic toxicity Category 3 - (H412)

## SECTION 2: Hazard identification

### 2.2. Label elements

Contains d-Limonene



Signal word

Warning

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### Hazard statements

H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H412 - Harmful to aquatic life with long lasting effects  
H226 - Flammable liquid and vapour

### Precautionary Statements - EU (§28, 1272/2008)

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
**P264** Wash face, hands and any exposed skin thoroughly after handling  
**P280** Wear protective gloves/protective clothing/eye protection/face protection  
**P261** Avoid breathing dust/fume/gas/mist/vapours/spray  
**P272** Contaminated work clothing should not be allowed out of the workplace  
**P362** Take off contaminated clothing and wash before reuse  
**P233** Keep container tightly closed  
**P240** Ground/bond container and receiving equipment  
**P241** Use explosion-proof electrical/ ventilating/ lighting/ equipment  
**P242** Use only non-sparking tools  
**P243** Take precautionary measures against static discharge  
**P303 + P361 + P353** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
**P333 + P313** If skin irritation or rash occurs: Get medical advice/attention  
**P501** Dispose of contents/container to industrial incineration plant  
**P403 + P235** Store in a well-ventilated place. Keep cool  
**P370 + P378** In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish  
**P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
**P337 + P313** If eye irritation persists: Get medical advice/attention  
**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

### 2.3. Other hazards

No information available.

### Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

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### SECTION 3: Composition and information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Chemical Name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)		M-Factor (long-term)
Isopropyl Alcohol 67-63-0	12-20	No data available	(603-117-00-0) 200-661-7	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	-	-	-
1-Butoxy-2-propanol 5131-66-8	2-10	No data available	(603-052-00-8) 225-878-4	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	-	-	-
d-Limonene 5989-27-5	>0.1	No data available	(601-029-00-7) 227-813-5	Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)	-	1	1

Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical Name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Isopropyl Alcohol 67-63-0	1870	4059	Inhalation LC50 Rat >10000 ppm 6 h (no deaths occurred, vapor, Source: ECHA_API)	>10000 30.1002	Inhalation LC50 Rat >10000 ppm 6 h (no deaths occurred, vapor, Source: ECHA_API)
1-Butoxy-2-propanol 5131-66-8	1900	2000	No data available	No data available	No data available
d-Limonene 5989-27-5	5200 4400	5000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

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### SECTION 4: First aid measures

#### 4.1. Description of necessary first-aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
Self-protection of the first aider	Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

Symptoms	Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.
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#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	May cause sensitisation in susceptible persons. Treat symptomatically.
Chronic symptoms	Suspected of causing cancer. Suspected of damaging fertility or the unborn child.

### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

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

Specific hazards arising from the chemical	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitiser. May cause sensitisation by skin contact.
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ).

#### 5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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## SECTION 6: Accidental release measures

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

Personal precautions	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
Other information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
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### 6.3. Methods and materials for containment and cleaning up

Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

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

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.
Storage class (TRGS 510)	LGK 3.

### 7.3. Specific end use(s)

Specific Use(s)	Surface cleaner
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Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
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## SECTION 8: Exposure controls and personal protection

### 8.1. Control parameters - exposure standards

#### Exposure Limits

Chemical Name	European Union	Austria	Belgium	Bulgaria	Croatia
Isopropyl Alcohol 67-63-0	-	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL 800 ppm STEL 2000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	STEL: 1225.0 mg/m <sup>3</sup> TWA: 980.0 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 999 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1250 mg/m <sup>3</sup>
Chemical Name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Isopropyl Alcohol 67-63-0	-	TWA: 500 mg/m <sup>3</sup> Ceiling: 1000 mg/m <sup>3</sup> D*	TWA: 200 ppm TWA: 490 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 350 mg/m <sup>3</sup> STEL: 250 ppm STEL: 600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 620 mg/m <sup>3</sup>
1-Butoxy-2-propanol 5131-66-8	-	TWA: 270 mg/m <sup>3</sup> Ceiling: 550 mg/m <sup>3</sup> D*	-	-	-
d-Limonene 5989-27-5	-	-	-	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> STEL: 50 ppm STEL: 280 mg/m <sup>3</sup>
Chemical Name	France	Germany TRGS	Germany DFG	Greece	Hungary
Isopropyl Alcohol 67-63-0	STEL: 400 ppm STEL: 980 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> Peak: 400 ppm Peak: 1000 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>	TWA: 500 mg/m <sup>3</sup> STEL: 1000 mg/m <sup>3</sup> b*
d-Limonene 5989-27-5	TWA: 1000 mg/m <sup>3</sup> STEL: 1500 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> Sh+ H*	TWA: 5 ppm TWA: 28 mg/m <sup>3</sup> Peak: 20 ppm Peak: 112 mg/m <sup>3</sup> * skin sensitizer	-	-
Chemical Name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Isopropyl Alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm Sk*	-	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 400 ppm STEL: 983 mg/m <sup>3</sup>	TWA: 350 mg/m <sup>3</sup> STEL: 600 mg/m <sup>3</sup>	TWA: 150 ppm TWA: 350 mg/m <sup>3</sup> STEL: 250 ppm STEL: 600 mg/m <sup>3</sup>
Chemical Name	Luxembourg	Malta	Netherlands	Norway	Poland
Isopropyl Alcohol 67-63-0	-	-	-	TWA: 100 ppm TWA: 245 mg/m <sup>3</sup> STEL: 150 ppm STEL: 306.25 mg/m <sup>3</sup>	STEL: 1200 mg/m <sup>3</sup> TWA: 900 mg/m <sup>3</sup> skóra*
d-Limonene 5989-27-5	-	-	-	TWA: 25 ppm TWA: 140 mg/m <sup>3</sup> A+ STEL: 37.5 ppm STEL: 175 mg/m <sup>3</sup>	-
Chemical Name	Portugal	Romania	Slovakia	Slovenia	Spain
Isopropyl Alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm	TWA: 81 ppm TWA: 200 mg/m <sup>3</sup> STEL: 203 ppm STEL: 500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> Ceiling: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>
d-Limonene 5989-27-5	-	-	-	TWA: 28 mg/m <sup>3</sup> TWA: 5 ppm STEL: 20 ppm STEL: 112 mg/m <sup>3</sup> K*	TWA: 30 ppm TWA: 168 mg/m <sup>3</sup> via dérmica* Sen+

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Chemical Name	Sweden	Switzerland	Switzerland	United Kingdom
Isopropyl Alcohol 67-63-0	NGV: 150 ppm NGV: 350 mg/m <sup>3</sup> Vägledande KGV: 250 ppm Vägledande KGV: 600 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 490 mg/m <sup>3</sup>	TWA: 400 ppm TWA: 999 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1250 mg/m <sup>3</sup>
d-Limonene 5989-27-5	-	TWA: 270 mg/m <sup>3</sup> Ceiling: 550 mg/m <sup>3</sup> D*	S+ TWA: 7 ppm TWA: 40 mg/m <sup>3</sup> STEL: 14 ppm STEL: 80 mg/m <sup>3</sup>	-

## Biological occupational exposure limits

Chemical Name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Isopropyl Alcohol 67-63-0	-	-	50 mg/L - blood (Acetone) - at the end of the work shift 50 mg/L - urine (Acetone) - at the end of the work shift	TWA: 400 ppm TWA: 999 mg/m <sup>3</sup> STEL: 500 ppm STEL: 1250 mg/m <sup>3</sup>	-
Chemical Name	Denmark	Finland	France	Germany DFG	Germany TRGS
Isopropyl Alcohol 67-63-0	-	-	-	25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift) 25 mg/L - BAT (end of exposure or end of shift) urine 25 mg/L - BAT (end of exposure or end of shift) blood	25 mg/L (whole blood - Acetone end of shift) 25 mg/L (urine - Acetone end of shift)
Chemical Name	Hungary	Ireland	Italy MDLPS	Italy AIDII	Latvia
Isopropyl Alcohol 67-63-0	-	40 mg/L (urine - Acetone end of shift at end of workweek)	-	40 mg/L - urine (Acetone) - end of shift at end of workweek	-
Chemical Name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Luxembourg
Isopropyl Alcohol 67-63-0	TWA: 200 ppm STEL: 400 ppm Sk*	-	TWA: 200 ppm TWA: 492 mg/m <sup>3</sup> STEL: 400 ppm STEL: 983 mg/m <sup>3</sup>	TWA: 350 mg/m <sup>3</sup> STEL: 600 mg/m <sup>3</sup>	-
Chemical Name	Romania	Slovakia	Slovenia	Spain	Switzerland
Isopropyl Alcohol 67-63-0	50 mg/L - urine (Acetone) - end of shift	-	25 mg/L - blood (Acetone) - at the end of the work shift 25 mg/L - urine (Acetone) - at the end of the work shift	40 mg/L (urine - Acetone end of workweek)	25 mg/L (urine - Acetone end of shift) 0.4 mmol/L (urine - Acetone end of shift) 25 mg/L (whole blood - Acetone end of shift) 0.4 mmol/L (whole blood - Acetone end of shift)
Chemical Name	United Kingdom	Romania	Slovakia	Slovenia	Spain
Isopropyl Alcohol 67-63-0	-	TWA: 81 ppm TWA: 200 mg/m <sup>3</sup> STEL: 203 ppm STEL: 500 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> Ceiling: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 400 ppm STEL: 1000 mg/m <sup>3</sup>

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### 8.2. Exposure controls

Skin corrosion/irritation	No information available.
Personal Protective Equipment	No information available.
Eye/face protection	Tight sealing safety goggles.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.
Environmental exposure controls	No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Light red liquid
Colour	Light red
Odour	Fruity.
Odour Threshold	No data available
Melting point / freezing point	90 °C
Initial boiling point and boiling range	80 °C
Flammability (Solid, Gas)	No data available
Flammability Limit in Air	No data available
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Flash point	30 °C
Autoignition temperature	260 °C
Decomposition temperature	No data available
pH	7
pH (as aqueous solution)	No data available
Kinematic viscosity	No data available
Dynamic Viscosity	No data available
Water solubility	No data available Miscible in water
Solubility(ies)	No data available
Partition Coefficient	No data available
Vapour Pressure	4.3 kPa
Relative Density	0.96 g/ml
Bulk Density	No data available
Liquid Density	No data available
Vapour Density Particle characteristics	No data available
Particle Size	No data available
Particle Size Distribution	No data available



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### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes.

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### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	6,611.80 mg/kg
ATEmix (dermal)	10,659.90 mg/kg
ATEmix (inhalation-vapour)	158.40 mg/l

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	> 10000 ppm ( Rat ) 6 h
1-Butoxy-2-propanol	= 1900 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	-
d-Limonene	= 5200 mg/kg ( Rat ) = 4400 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

#### 11.2.2. Other information

Other Adverse Effects Other Adverse Effects No information available.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	
Isopropyl Alcohol	EC50: >1000mg/L (96h, <i>Desmodesmus subspicatus</i> ) EC50: >1000mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: =9640mg/L (96h, <i>Pimephales promelas</i> ) LC50: =11130mg/L (96h, <i>Pimephales promelas</i> ) LC50: >1400000µg/L (96h, <i>Lepomis macrochirus</i> )	-	EC50: =13299mg/L (48h, <i>Daphnia magna</i> )
d-Limonene	-	LC50: 0.619 - 0.796mg/L (96h, <i>Pimephales promelas</i> ) LC50: =35mg/L (96h, <i>Oncorhynchus mykiss</i> )	-	

#### 12.2. Persistence and degradability

**Persistence/Degradability** No information available.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

#### 12.3. Bioaccumulative potential

**Bioaccumulation**

##### Component Information

Chemical Name	Partition coefficient
Isopropyl Alcohol	0.05
1-Butoxy-2-propanol	1.2
d-Limonene	4.38

#### 12.4. Mobility in soil

**Mobility in Soil** No information available.

**Mobility**

#### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical Name	Partition coefficient
Isopropyl Alcohol	The substance is not PBT / vPvB PBT assessment does not apply
1-Butoxy-2-propanol	The substance is not PBT / vPvB
d-Limonene	The substance is not PBT / vPvB PBT assessment does not apply

#### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 12.7. Other adverse effects

No information available.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### SECTION 14: Transport information

#### IMDG

11.2.2. Other information	UN1987
14.2 Proper Shipping Name	Alcohols, n.o.s.
14.3 Transport hazard class(es)	3
14.4 Packing Group	III
Description	UN1987, Alcohols, n.o.s. (Isopropyl Alcohol), 3, III, (30°C c.c.)
EmS-No	F-E, S-D

#### RID

14.1 UN/ID No	UN1987
14.2 Proper Shipping Name	Alcohols, n.o.s.
14.3 Transport hazard class(es)	3
14.4 Packing Group	III
Description	UN1987, Alcohols, n.o.s. (Isopropyl Alcohol), 3, III
EmS-No	F1

#### ADR

14.1 UN/ID No	1987
14.2 Proper Shipping Name	Alcohols, n.o.s.
14.3 Transport hazard class(es)	3
Label	3
14.4 Packing Group	III
Description	1987, Alcohols, n.o.s. (Isopropyl Alcohol), 3, III, (D/E)
Classification Code	F1
Tunnel restriction code	(D/E)

#### IATA

14.1 UN/ID No	UN1987
14.2 Proper Shipping Name	Alcohols, n.o.s.
14.3 Transport hazard class(es)	3
14.4 Packing Group	III
Description	UN1987, Alcohols, n.o.s. (Isopropyl Alcohol), 3, III
EmS-No	3L

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### SECTION 15: Regulatory information

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

##### National regulations

##### France

##### Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number
Isopropyl Alcohol 67-63-0	RG 84
1-Butoxy-2-propanol 5131-66-8	RG 84
d-Limonene 5989-27-5	RG 84

##### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

##### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical Name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Isopropyl Alcohol - 67-63-0	75.	-
1-Butoxy-2-propanol - 5131-66-8	75.	-
d-Limonene - 5989-27-5	75.	-

##### Persistent Organic Pollutants

Not applicable

##### Authorisations and/or restrictions on use:

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

##### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

##### Biocidal Products Regulation (EU) No 528/2012 (BPR)

Chemical Name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Isopropyl Alcohol 67-63-0	Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals Product-type 4: Food and feed area Product-type 1: Human hygiene

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### International Inventories

Chemical Name	TSCA	DSL/NDL	EINECS/ ELINCS	PICCS	ENCS	IECSC	AIC	KECL
Isopropyl Alcohol 67-63-0 ( 12-20 )	x	x	x	x	x	x	x	x
1-Butoxy-2-propanol 5131-66-8 ( 2-10 )	x	x	x	x	x	x	x	x
d-Limonene 5989-27-5 ( >0.1 )	x	x	x	x	x	x	x	x

#### Legend:

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Japan Existing and New Chemical Substances
IECSC	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances
NZIoC	New Zealand Inventory of Chemicals

### 15.2. Chemical safety assessment

**Chemical Safety Report** No information available

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

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### Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

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Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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<b>Revision Note</b>	New

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

### Disclaimer

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End of Safety Data Sheet