

XPEL FUSION CERAMIC COATING

Safety Data Sheet

Issue Date: 26-Mar-2012 | Revision Date: 14-Dec-2016 | Version 1.1

SECTION 1: Identification Of The Substance/Mixture And Of The Company/Undertaking

1.1. Product identifier

Product name XPEL Fusion Ceramic Coating

1.2. Other means of identification

SDS # XPEL-004-EU

Contains Isopropyl Alcohol

1.3. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended Use Ceramic coating

1.4. Details of the supplier of the safety data sheet

XPEL Technologies Corp.
618 W. Sunset Rd.
San Antonio, TX 78216

1.5. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Serious eye damage/eye irritation : Category 2 - (H319)

Specific target organ toxicity (single exposure) : Category 3 - (H336)

Flammable Liquids : Category 2 - (H225)

2.2. Label Elements

Product Identifier Contains Isopropyl Alcohol

Signal word Danger

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



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

P370 + P378 - In case of fire: Use carbon dioxide, dry chemical, or alcohol-resistant foam to extinguish
P210 - Keep away from heat/sparks/open flames/hot surfaces. — No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P242 - Use only non-sparking tools
P243 - Take precautionary measures against static discharge
P405 - Store locked up
P403 + P235 - Store in a well-ventilated place. Keep cool
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P271 - Use only outdoors or in a well-ventilated area
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor if you feel unwell
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

2.3 Other Hazards

No information available

SECTION 3 - Composition/Information On Ingredients

3.2 Mixtures

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Isopropyl Alcohol	Present	67-63-0	45-50	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)	Not determined

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

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)

SECTION 4 - First Aid Measures

4.1 Description of first aid measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If conscious give 2 glasses of water to dilute. Call a poison center or doctor/physician if you feel unwell.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms Causes serious eye irritation. May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

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SECTION 5 - Fire-Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media	Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam.
Unsuitable Extinguishing Media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2 Special Hazards Arising from the Substance or Mixture

Highly flammable liquid and vapour. Vapors are heavier than air and may travel along ground to ignition sources and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products	Carbon monoxide.
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5.3 Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Use water spray to cool exposed surfaces. Do not release runoff from fire control methods to sewers or waterways.

SECTION 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet.
For Emergency Responders	Use personal protection recommended in Section 8.

6.2 Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an inert (i.e. vermiculite, dry sand or earth) absorbent material.
Methods for Clean-Up	Use only non-sparking tools. Sweep up and shovel into suitable containers for disposal. For waste disposal, see section 13 of the SDS.

6.4 Reference to Other Sections

See Section 13: DISPOSAL CONSIDERATIONS.

SECTION 7 - Handling and Storage

7.1 Precautions for safe handling

Advice on Safe Handling	Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing and eye/face protection. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Ground/bond container and receiving equipment. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Keep cool.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Avoid freezing while in storage. Store locked up.
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7.3 Specific End Use(s)

Specific Use(s)	Ceramic coating.
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

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SECTION 8 - Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Isopropyl Alcohol 67-63-0	-	STEL: 500 ppm STEL: 1250 mg/m ³ TWA: 400 ppm TWA: 999 mg/m ³	STEL: 400 ppm STEL: 980 mg/m ³	STEL: 400 ppm STEL: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³	TWA: 200 ppm TWA: 500 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Isopropyl Alcohol 67-63-0	-	STEL: 400 ppm TWA: 200 ppm	-	TWA: 200 ppm TWA: 500 mg/m ³ STEL: 250 ppm STEL: 620 mg/m ³	TWA: 200 ppm TWA: 490 mg/m ³
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Isopropyl Alcohol 67-63-0	STEL 800 ppm STEL 2000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³	STEL: 400 ppm STEL: 1000 mg/m ³ TWA: 200 ppm TWA: 500 mg/m ³	STEL: 1200 mg/m ³ TWA: 900 mg/m ³	TWA: 100 ppm TWA: 245 mg/m ³ STEL: 125 ppm STEL: 306.25 mg/m ³	TWA: 200 ppm STEL: 400 ppm Skin

8.2 Exposure Controls

Engineering Controls

Apply technical measures to comply with the occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location. Provide adequate ventilation.

8.3 Personal Protective Equipment

Eye/Face Protection

Chemical goggles or full face shield. If necessary, refer to appropriate regulations & standards.

Hand Protection

Wear impervious gloves. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Skin and Body Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment.

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SECTION 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical State	: Liquid	Odor	: Alcohol odor
Appearance	: Clear liquid	Odor Threshold	: No data available
Color	: Clear		
General Properties			
Property	Values	Remarks • Method	
pH	7	@ 20 C	
Melting Point/Freezing Point	No data available		
Boiling Point/Boiling Range	82 °C / 180 °F		
Flash Point	13 °C / 55 °F		
Evaporation Rate	No data available		
Flammability (Solid, Gas)	No information available		
Flammability Limits in Air			
Upper Flammability Limits	Not determined		
Lower Flammability Limits	Not determined		
Vapor Pressure	33-45 mmHg	@ 20°C (68°F)	
Vapor Density	No data available	(Air=1)	
Relative Density	2.1	15-20°C	
Water Solubility	< 0.01		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Auto-ignition Temperature	183.8-218.3 °C / 363-425 °F		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

SECTION 10: Stability and Reactivity

10.1 Reactivity

Not reactive under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization: Hazardous polymerization does not occur.

Possibility of Hazardous Reactions: None under normal processing.

10.4 Conditions to avoid

Keep out of reach of children. Extremes of temperature and direct sunlight. Heat, flames and sparks.

10.5 Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6 Hazardous decomposition products

Carbon oxides. May release flammable gases.

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SECTION 11 - Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity

Product Information

Inhalation	Do not inhale. May cause drowsiness or dizziness.
Eye Contact	Causes serious eye irritation.
Skin Contact	Avoid contact with skin.
Ingestion	Do not ingest.

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

ATEmix (oral)	3,740.00 mg/kg
ATEmix (dermal)	8,118.00 mg/kg
ATEmix (inhalation-dust/mist)	145.20 mg/L

Unknown Acute Toxicity

- 50% of the mixture consists of ingredient(s) of unknown toxicity.
- 0% of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 50% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 50% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 0% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

11.2 Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
Skin corrosion/irritation	Not classified.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Sensitisation	Not classified.		
Germ cell mutagenicity	Not classified.		
Carcinogenicity	Not classified.		
Reproductive toxicity	Not classified.		
STOT - single exposure	May cause drowsiness or dizziness		
STOT - repeated exposure	Not classified.		
Aspiration hazard	Not classified.		

SECTION 12 - Ecological Information

12.1 Toxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isopropyl Alcohol	1000: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 1000: 96 h <i>Desmodesmus subspicatus</i> mg/L EC50	11130: 96 h <i>Pimephales promelas</i> mg/L LC50 static 9640: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 1400000: 96 h <i>Lepomis macrochirus</i> Qg/L LC50	13299: 48 h <i>Daphnia magna</i> mg/L EC50

12.2 Persistence / degradability

Not determined.

12.3 Bioaccumulative Potential

Chemical Name	Partition Coefficient
Isopropyl Alcohol	0.05

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12.4 Mobility in Soil

Mobility

Not determined.

12.5 Results of PBT and vPvB Assessment

Not determined

12.6 Other Adverse Effects

Not determined.

SECTION 13 - Disposal Considerations

13.1 Waste treatment methods

Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Handle empty containers with care because residual vapors are flammable. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14 - Transport Information

	14.1 UN/ID No.	14.2 Proper Shipping Name	14.3 Hazard class	14.4 Packing Group
IMDG	UN1219	Isopropyl alcohol solution	3	II
RID	UN1219	Isopropyl alcohol solution	3	II
ADR	UN1219	Isopropyl alcohol solution	3	II
IATA	UN1219	Isopropyl alcohol solution	3	II

SECTION 15 - Regulatory Information

15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

France

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
Isopropyl Alcohol 67-63-0	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 does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

INTERNATIONAL INVENTORIES

Component	TSCA	DSL/NDSL	EINECS/ELINCS	PICCS	ENCS	IECSC	AICS	KECL
Isopropyl Alcohol 67-63-0 (45-50)	X	X	X	X	Present	X	X	Present

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

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15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16 - Other Information

Full text of H-Statements referred to under section 3

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

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

Classification Procedure

Calculation method

Issue Date: 26-Mar-2012
Revision Date: 14-Dec-2016
Revision Note: New format

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Regulation (EU) No. 453/2010

Disclaimer/Statement of Liability

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

End of Safety Data Sheet