

# Material Safety Data Sheet

## Fogtech® DX Instant Anti-Fog

### 1. Identification of the material and supplier

#### Names

**Product name** : Fogtech® DX Instant Anti-Fog  
**Product code** : FTPKD001  
**Trade name** : Fogtech® DX Instant Anti-Fog  
**ADG** : -  
**Manufacturer** : MotoSolutions®  
 966 Coral Drive  
 Rodeo, California, 94572  
 Tel : 510 799-5100 ☐  
 Fax : 510 799-6607  
 E-mail : gene@motosolutions.com  
 www.motosolutions.com

**Importer** :

**Emergency telephone number** : INFOTRAC®  
 North America: +1-800-535-5053  
 International: +1-352-323-3500

#### Uses

**Area of application** : Industrial, sports and military applications.  
**Material uses** : Significantly improves vision through polycarbonate lenses, shields or windows by preventing fogging or misting.

### 2. Hazards identification

**Classification** : BEFORE APPLICATION:  
 F; R11  
  
 AFTER APPLICATION AND EVAPORATION OF ALCOHOL CARRIER:  
 NO SIGNIFICANT EFFECTS.

**Risk phrases** : R11- Highly flammable.  
**Safety phrases** : S2- Keep out of the reach of children.  
 S16- Keep away from sources of ignition - No smoking.

**Statement of hazardous/dangerous nature** : NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

### 3. Composition/information on ingredients

**Mixture** : Yes.  
**Synonyms** : Moistened towelette wipe in sealed packet  
**Molecular formula** : Not applicable.

Ingredient name	CAS number	Concentration
Ethyl Alcohol	64-17-5	60 - 100

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.



### 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First-aid measures

#### First-aid measures

- Inhalation** : None known. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
- Skin contact** : If symptoms occur, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
- Advice to doctor** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

#### Extinguishing media

- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.  
Flammable.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

- Personal precautions** : No special precaution is required.
- Environmental precautions** : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up**
- Spill** : Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Place spilled material in an appropriate container for disposal. Dispose via a licensed waste disposal contractor.

### 7. Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes. Keep away from heat, sparks and flame. Wash thoroughly after handling.
- Storage** : Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

## 8. Exposure controls/personal protection

### Occupational exposure limits

Ingredient name	Exposure limits
Ethyl Alcohol	<b>Safe Work Australia (Australia, 8/2005).</b> TWA: 1880 mg/m <sup>3</sup> 8 hour(s). TWA: 1000 ppm 8 hour(s).

**Recommended monitoring procedures** : None known.

### Exposure controls

**Engineering measures** : None known.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eyes** : Not required under normal conditions of use.

**Hands** : Not required under normal conditions of use.

**Respiratory** : Not required under normal conditions of use.

**Skin** : Not required under normal conditions of use.

**Environmental exposure controls** : Not required.

## 9. Physical and chemical properties

**Physical state** : Moistened towelette.

**Colour** : Water clear.

**Flash point** : Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Pensky-Martens.]

**Solubility** : Soluble in water.

## 10. Stability and reactivity

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).

**Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Skin contact** : May cause skin irritation.

**Eye contact** : May cause eye irritation.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethyl Alcohol	LC50 Inhalation Vapour LD50 Oral	Rat Rat	124700 mg/m <sup>3</sup> 7 g/kg	4 hours -

### Potential chronic health effects

#### Chronic toxicity

There is no data available.

#### Irritation/Corrosion

## 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl Alcohol	Eyes - Moderate irritant	Rabbit	-	100 µL	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-

### Sensitiser

**Skin** : There is no data available.

**Respiratory** : There is no data available.

### Carcinogenicity

There is no data available.

### Mutagenicity

There is no data available.

### Teratogenicity

There is no data available.

### Reproductive toxicity

There is no data available.

### Chronic effects

: No known significant effects or critical hazards.

### Carcinogenicity

: No known significant effects or critical hazards.

### Mutagenicity

: No known significant effects or critical hazards.

### Teratogenicity

: No known significant effects or critical hazards.

### Developmental effects

: No known significant effects or critical hazards.

### Fertility effects

: No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Inhalation** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Skin** : No known significant effects or critical hazards.

**Eyes** : No known significant effects or critical hazards.

**Target organs** : Contains material which may cause damage to the following organs: blood, the nervous system, the reproductive system, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Ethyl Alcohol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae - 3 days	12 weeks

### Other ecological information

#### Persistence/degradability

There is no data available.

#### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Ethyl Alcohol	-0.32	-	low

**Other adverse effects** : No known significant effects or critical hazards.

## 13. Disposal considerations

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container.

## 14. Transport information

### International transport regulations

Regulation	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADG	Not regulated.	-	-	-		-
ADR	Not regulated.	-	-	-		-
IMDG	Not regulated.	-	-	-		<b>Remarks</b> Special Provision 216
IATA	Not regulated.	-	-	-		<b>Remarks</b> Special Provision A46

PG\* : Packing group

Exemption to the above classification may apply.

## 15. Regulatory information

### Standard Uniform Schedule of Medicine and Poisons

Not regulated.

### Control of Scheduled Carcinogenic Substances

Not available.

**Australia inventory (AICS)** : Not determined.

## 16. Other information

**Person who prepared the MSDS** : KMK Regulatory Services Inc.

**Date of issue** : 30/11/2012

**Version** : 1

**Revised Section(s)** : Not applicable.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

