

# Vetro Power Anti-Fog Coating Spray

## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name : Vetro Power Anti-Fog Coating Spray  
Product code : -

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

1.2.1. Identified uses: Window glass cleaner.

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

**ZYAX CHEM PVT LTD**  
3rd Floor, Kamer Building,  
38 Cawasji Patel Street, Fort,  
Mumbai - 400001, India.  
Contact No: +91 8779240420  
info@zyax.in - www.zyax.in

#### 1.4. Emergency telephone number

Emergency number : +91 22 2757 3899

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards

Health hazards

Environmental hazards

#### 2.2. Label elements

Pictogram



Signal word Danger

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



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Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P240 Ground/ bond container and receiving equipment.  
P241 Use explosion-proof electrical equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing vapour/ spray.  
P264 Wash contaminated skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/ doctor if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/ attention.  
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.  
P501 Dispose of contents/ container in accordance with national regulations.  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

Contains: IPA

### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

IPA		60-100%
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-0000

Classification  
Flam. Liq. 2 - H225  
Eye Irrit. 2 - H319  
STOT SE 3 - H336

POLYETHER MODIFIED TRISILOXANE		1-<2.5%
CAS number: 27306-78-1	EC number: 608-078-3	

Classification  
Acute Tox. 4 - H332  
Eye Irrit. 2 - H319  
Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

General information:	Remove affected person from source of contamination. Effects may be delayed. Keep affected person under observation. Get medical attention. CAUTION! First aid personnel must be aware of own risk during rescue! Move affected person to fresh air at once. Keep affected person away from heat, sparks and flames. If breathing stops, provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place.
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Inhalation:	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel. Place unconscious person on their side in the recovery position and ensure breathing can take place. If breathing stops, provide artificial respiration.
Ingestion:	Get medical attention immediately. Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel. Never give anything by mouth to an unconscious person. Keep affected person away from heat, sparks and flames. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Skin contact:	Remove contaminated clothing immediately and wash skin with soap and water. Rinse with water. Use suitable lotion to moisturise skin. Get medical attention promptly if symptoms occur after washing.
Eye contact:	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Do not rub eye. Get medical attention if any discomfort continues.

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

General information:	The severity of the symptoms described will vary dependent on the concentration and the length of exposure. Effects may be delayed. Keep affected person under observation.
Inhalation:	In case of overexposure, organic solvents may depress the central nervous system causing dizziness and intoxication, and at very high concentrations unconsciousness and death. Vapours may cause headache, fatigue, dizziness and nausea. Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
Ingestion:	May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. May cause chemical burns in mouth and throat. Central nervous system depression. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
Skin contact:	Prolonged contact may cause redness, irritation and dry skin.
Eye contact:	Irritation, burning, lachrymation, blurred vision after liquid splash.

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

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media:	Extinguish with the following media: Foam, carbon dioxide or dry powder. Water. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.



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

Specific hazards:	Vapours may form explosive mixtures with air. Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember. The product is highly flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.
Hazardous combustion products:	Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

Protection during firefighting:	Avoid breathing fire gases or vapours. Keep up-wind to avoid fumes. Risk of re-ignition after fire has been extinguished. Risk of explosion. Cool containers exposed to flames with water until well after the fire is out. Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.
Special protective equipment for firefighters:	Leave danger zone immediately.

## 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. Use suitable respiratory protection if ventilation is inadequate. Take precautionary measures against static discharges. No smoking, sparks, flames or other sources of ignition near spillage. Do not breathe vapour. Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.
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### 6.2. Environmental precautions

Do not discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge to the aquatic environment.

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

Methods for cleaning up:	For waste disposal, see Section 13. Stop leak if possible without risk. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Cover large spillages with alcohol-resistant foam.
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### 6.4. Reference to other sections

Reference to other sections:	Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.
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## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Usage precautions:** Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Vapours may accumulate on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Good personal hygiene procedures should be implemented. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Mechanical ventilation or local exhaust ventilation may be required.

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

**Storage precautions:** Keep away from heat, sparks and open flame. Keep container tightly closed. Keep containers upright. Keep only in the original container. Avoid contact with oxidising agents. Do not store near heat sources or expose to high temperatures. Store away from the following materials:  
Oxidising materials.

**Storage class:** Flammable liquid storage.

### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1. Control parameters

Occupational exposure limits

No exposure limits known for ingredient(s).

IPA

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### 8.2. Exposure controls

Protective equipment



**Appropriate engineering controls:** Use explosion-proof general and local exhaust ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients. All handling should only take place in well-ventilated areas.

**Eye/face protection:** Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.



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Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
Other skin and body protection:	Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures:	Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke. Contaminated clothing should be placed in a closed container for disposal or decontamination.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	Clear liquid.
Colour	Colourless.
Odour	Alcoholic.
pH	Scientifically unjustified.
Melting point	Not determined.
Initial boiling point and range	82°C @
Flash point	12°C
Evaporation rate	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	0.790g/cm <sup>3</sup> @ 20°C
Solubility(ies)	Miscible with water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	<50 cP @ 20°C

#### 9.2. Other information

Other information:	None.
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### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactive Hazard

Vapours may form explosive mixtures with air.

#### 10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

Not relevant.

#### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

#### 10.5. Incompatible materials

Strong oxidising agents.



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### 10.6. Hazardous decomposition products

None at ambient temperatures. Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Acute toxicity - inhalation

ATE inhalation (gases ppm) 450,000.0

ATE inhalation (vapours mg/l) 1,100.0

ATE inhalation (dusts/mists mg/l) 150.0

#### General information

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems. The product contains small amounts of organic solvents. Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.

#### Inhalation

Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Headache. Dizziness. Drowsiness. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. The product contains organic solvents. Overexposure may depress the central nervous system, causing dizziness and intoxication.

#### Ingestion

May cause internal injury. May cause nausea, headache, dizziness and intoxication. Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

#### Skin contact

Prolonged contact may cause dryness of the skin. Repeated exposure may cause skin dryness or cracking.

#### Eye contact

Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain. Vapour or spray in the eyes may cause irritation and smarting.

#### Acute and chronic health hazards

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

#### Route of entry

Inhalation Skin absorption Ingestion. Skin and/or eye contact

#### Medical symptoms

Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo.

#### Medical considerations

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecology:

Acute toxicity - fish

Acute toxicity - aquatic invertebrates

The product contains a substance which has a photochemical ozone creation potential.

Not available.

Not available.



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### 12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.  
Partition coefficient: Not determined.

### 12.4. Mobility in soil

Mobility: The product is miscible with water. May spread in water systems.  
Adsorption/desorption coefficient: Not available.

### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

Other adverse effects: Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

General information: Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not puncture or incinerate, even when empty.  
Disposal methods: Confirm disposal procedures with environmental engineer and local regulations. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Empty containers must not be punctured or incinerated because of the risk of an explosion. Reuse or recycle products wherever possible.

## SECTION 14: TRANSPORT INFORMATION

14.1. UN number  
UN No. (ADR/RID) 1219  
UN No. (IMDG) 1219  
UN No. (ICAO) 1219  
UN No. (ADN) 1219

14.2. UN proper shipping name  
Proper shipping name (ADR/RID) ISOPROPANOL (ISOPROPYL ALCOHOL)  
Proper shipping name (IMDG) ISOPROPANOL (ISOPROPYL ALCOHOL)  
Proper shipping name (ICAO) ISOPROPANOL (ISOPROPYL ALCOHOL)  
Proper shipping name (ADN) ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)  
ADR/RID class 3  
ADR/RID classification code F1  
ADR/RID label 3  
IMDG class 3  
ICAO class/division 3  
ADN class 3

Transport labels



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### Transport labels



14.4. Packing group  
ADR/RID packing group II  
IMDG packing group II  
ADN packing group II  
ICAO packing group II

14.5. Environmental hazards  
Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user  
EmS F-E, S-D  
ADR transport category 2  
Emergency Action Code •2YE  
Hazard Identification Number (ADR/RID) 33  
Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code  
Transport in bulk according to Not applicable.  
Annex II of MARPOL 73/78  
and the IBC Code

## SECTION 15: REGULATORY INFORMATION

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

National regulations	EH40/2005 Workplace exposure limits
EU legislation	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: OTHER INFORMATION

The information given is based on our knowledge of this product at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the products for purposes other than those it is intended for. It is the sole responsibility of the user to take all precautions required in handling the product. We as manufacturer give the guarantee for the quality of the product.