



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. Produ	ct identifie	er
Product name Product code	:	Vetro Power Anti-Fog Coating Spray -

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 LLP 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 statement	ls	H225 Highly flammable liquid and vapour.
		H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.





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+P235 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. 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 60-100% IPA 60-100% CAS number: 67-63-0 EC number: 200-661-7 REACH registration number: 01-2119457558-25-0000

EC number: 608-078-3

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

POLYETHER MODIFIED TRISILOXANE CAS number: 27306-78-1

SECTION 4: FIRST AID MEASURES

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.

4.1.	Description of first aid r	neasures
Genera	l 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.

1-<2.5%





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 flame 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 importan	t 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 a	ny immediate medical attention and special treatment needed
Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.

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.





5.2. Special hazar ds 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 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 firefigh	ters
Protection during firefight	ng: 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 equipm for firefighters:	ent 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.

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		
Method	s 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.	
6.4.	Reference to other section	ons	

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





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
	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 parametersOccupational exposure limitsNo exposure limits known for ingredient(s).

IPA

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³ Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³ 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.





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

AppearanceClear liquid.ColourColourless.OdourAlcoholic.pHScientifically unjustified.Melting pointNot determined.Initial boiling point and range82°C @Flash point12°CEvaporation rateNot determined.Upper/lower flammability orNot determined.explosive limitsVapour pressureVapour density0.790g/cm³ @ 20°CSolubility(ies)Miscible with water.Partition coefficientNot determined.Auto-ignition temperatureNot determined.	9.1. Information on basic p	hysical and chemical properties	
OdourAlcoholic.pHScientifically unjustified.Melting pointNot determined.Initial boiling point and range82°C @Flash point12°CEvaporation rateNot determined.Upper/lower flammability orNot determined.explosive limitsVapour pressureVapour densityNot determined.Relative density0.790g/cm³ @ 20°CSolubility(ies)Miscible with water.Partition coefficientNot determined.	Appearance	Clear liquid.	
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explosive limitsVapour pressureNot determined.Vapour densityNot determined.Relative density0.790g/cm³ @ 20°CSolubility(ies)Miscible with water.Partition coefficientNot determined.	Evaporation rate	Not determined.	
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Relative density0.790g/cm³ @ 20°CSolubility(ies)Miscible with water.Partition coefficientNot determined.	Vapour pressure	Not determined.	
Solubility(ies)Miscible with water.Partition coefficientNot determined.	Vapour density	Not determined.	
Partition coefficient Not determined.	Relative density	0.790g/cm³ @ 20°C	
	Solubility(ies)	Miscible with water.	
Auto-ignition temperature Not determined.	Partition coefficient	Not determined.	
	Auto-ignition temperature	Not determined.	
Decomposition Temperature Not determined.	Decomposition Temperature	Not determined.	
Viscosity <50 cP @ 20°C	Viscosity	<50 cP @ 20°C	

Other information

Other information:

9.2.

None.

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.





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 INFOR	RMATION
	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 permanen 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.





12.2. Persistence and degradability

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

12.3. Bioaccumulative potentia	
Bioaccumulative potential: Partition coefficient:	No data available on bioaccumulation. Not determined.
12.4. Mobility in soil	
Mobility: Adsorption/desorption coefficient	The product is miscible with water. May spread in water systems. Not available.
12.5. Results of PBT and vPvB a	issessment
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 CONSID	ERATIONS
13.1. Waste treatment method	S
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 INFOR	MATION
14.1. UN number UN No. (ADR/RID) UN No. (IMDG) UN No. (ICAO) UN No. (ADN)	1219 1219 1219 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	
· ·	02/05/2024 08/09





Transport labels



14.4. Packing groupADR/RID packing groupIIIMDG packing groupIIADN packing groupIIICAO packing groupII

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	33
(ADR/RID)	
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 mixtu	15.1.	Safety, health and envi	ronmental regulations/legi	islation specific for the sub	stance or mixture
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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.