

Zyax 3-in-1 Glass Cleaner

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product name : Zyax 3-in-1 Glass Cleaner
Product code :

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

1.2.1. Relevant identified uses
Industrial/Professional : Industrial/ Professional
use spec :

1.2.2. Uses advised against
No additional information available

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 according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2	H225
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GHS07



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Signal word (CLP) :	Danger
Hazard statements (CLP) :	H225 - Highly flammable liquid and vapour. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness.
Precautionary statements (CLP):	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

No additional information available

SECTION 3: Composition / information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

CAS: 67-63-0	Iso propyl alcohol	5.0-25.0 %
CAS: 34590-94-8	Di (propylene glycol) methyl ether,mixtures of isomers	0.5 – 5.0 %
CAS: 7732-18-5	Water	70.0-95.0%

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact :	Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact :	Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion :	Rinse mouth out with water. If you feel unwell, seek medical advice.

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

Symptoms/effects after inhalation :	May cause drowsiness or dizziness.
Symptoms/effects after eye contact :	Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Fire - fighting measures

5.1. Extinguishing media

Suitable extinguishing media :	dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media :	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard :	Highly flammable liquid and vapour.
Explosion hazard:	Heating may cause a fire or explosion.



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5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clean contaminated surfaces with an excess of water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling :

Avoid contact with skin and eyes.

Hygiene measures :

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Avoid release to the environment.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection :

Protective gloves

Eye protection :

Chemical goggles or safety glasses

Skin and body protection :

Wear suitable protective clothing

Respiratory protection :

Wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :

Liquid

Molecular mass :

60.1 g/mol

Colour :

Clear colourless.

Odour :

No data available

Odour threshold :

No data available

pH :

No data available

Relative evaporation rate (butylacetate=1) : No data available



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Melting point:	No data available
Freezing point:	No data available
Boiling point:	Approximately 90 - 100°C
Flash point:	29 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	0.98 g/cm ³
Density:	No data available
Solubility:	No data available
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Heat. Open flame. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity :	Not classified
Skin corrosion/irritation :	Not classified
Serious eye damage/irritation :	Causes serious eye irritation.
Respiratory or skin 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



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SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

ISO-PROPYL ALCOHOL AR (67-63-0)
Log Pow 0.05

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

No additional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) :	1219
UN-No. (IMDG) :	1219
UN-No. (IATA) :	1219
UN-No. (ADN) :	1219
UN-No. (RID) :	1219

14.2. UN proper shipping name

Proper Shipping Name (ADR) :	ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IMDG) :	ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IATA) :	Isopropanol
Proper Shipping Name (ADN) :	ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (RID) :	ISOPROPANOL (ISOPROPYL ALCOHOL)
Transport document description (ADR) :	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, III, (D/E)
Transport document description (IMDG) :	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, III
Transport document description (IATA) :	UN 1219 Isopropanol, 3, III
Transport document description (ADN) :	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, III
Transport document description (RID) :	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, III

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR) : 3



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Danger labels (ADR) :	3	
IMDG		
Transport hazard class(es) (IMDG) :	3	
Danger labels (IMDG) :	3	
IATA		
Transport hazard class(es) (IATA) :	3	
Hazard labels (IATA) :	3	
ADN		
Transport hazard class(es) (ADN) :	3	
Danger labels (ADN) :	3	
RID		
Transport hazard class(es) (RID) :	3	
Danger labels (RID) :	3	

14.4. Packing group

Packing group (ADR) :	III
Packing group (IMDG) :	III
Packing group (IATA) :	III
Packing group (ADN) :	III
Packing group (RID) :	III

14.5. Environmental hazards

Dangerous for the environment :	No
Marine pollutant :	No
Other information :	No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR) :	F1
Special provisions (ADR) :	601
Limited quantities (ADR) :	1I
Excepted quantities (ADR) :	E2



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Packing instructions (ADR) : P001, IBC02, R001
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container : T4
instructions (ADR)
Portable tank and bulk container special : TP1
provisions (ADR)
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation : S2, S20
(ADR)
Hazard identification number (Kemler No.) : 33
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •2YE

- Transport by sea

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-D
Stowage category (IMDG) : B
Flash point (IMDG) : 29°C c.c.
Properties and observations (IMDG) : Colourless, mobile liquid. Flashpoint: 29°C c.c. Explosive limits: 2% to 12%
Miscible with water

- Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y341
PCA limited quantity max net quantity : 1L
(IATA)
PCA packing instructions (IATA) : 353
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 364
CAO max net quantity (IATA) : 60L
Special provisions (IATA) : A180
ERG code (IATA) : 3L

- Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 601
Limited quantities (ADN) : 1 L
Excepted quantities (ADN) : E2
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 1



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- Rail transport

Classification code (RID) :	F1
Special provisions (RID) :	601
Limited quantities (RID) :	1L
Excepted quantities (RID) :	E2
Packing instructions (RID) :	P001, IBC02, R001
Mixed packing provisions (RID) :	MP19
Portable tank and bulk container : instructions (RID)	T4
Portable tank and bulk container special : provisions (RID)	TP1
Tank codes for RID tanks (RID) :	LGBF
Transport category (RID) :	2
Colis express (express parcels) (RID) :	CE7
Hazard identification number (RID) :	33

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)T
Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de : None of the components are listed

voortplanting giftige stoffen – Ontwikkeling

Denmark

Class for fire hazard : Class II-1



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Store unit :	5 liter
Classification remarks :	R10 <H225;H319;H336>; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation :	Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.