

HAZARDOUS PRODUCT SAFETY DATA SHEET
WINDOW GLASS CLEANER

Prepared on 01.02.2007

rev. 01.02.2007

Made in accordance with the Ordinance of Health Minister of 14.12.2004 (published in Journal of Laws No.2, Item 8) and Directive 91/155/EEC

1. PRODUCT AND COMPANY IDENTIFICATION

Trade name WINDOW GLASS CLEANER
Application Product is used for cleaning of glass surfaces i.e. for cleaning of window panes, lamp shades, mirrors, etc.

Manufacturer:

Amtra Sp. z o. o.
tel. 32 294 41 00 fax 32 294 41 39
Ul. Schonów 3, 41-200 Sosnowiec
www.amtra.pl

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: mixture of surfactants, alcohols, auxiliary agents and nano-components.
CAS No.: not applicable
Molecular weight: not applicable
Chemical formula: not applicable
EINECS No.: not applicable

Hazardous ingredients:

Ingredients	CAS No.	EINECS No.	%	Risk symbols & R-Phrases *
Isopropanol	67-63-0	200-661-7	<10	F, Xi, R11, R36, R67
Ethanol	64-17-5	200-578-6	<20	F, R11
Butylene glycol	111-76-2	203-905-0	<5	Xn, R20/21/22, R36/38

* explanations – see Sec.16

3. HAZARD IDENTIFICATION

Product has been classified as hazardous according to *The Ordinance Of Health Minister Of Sep 2, 2003 On Criteria And Way Of Classification Of Chemical Substances And Preparations* (Published in Journal of Laws No. 171, Item 1666).

Hazards when not properly handled: When handled in accordance with recommendations, product does not create any hazard to the human health.

Health hazards: Product safe to human.

Environment hazards: Product does not show any adverse effects on natural environment.

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4. FIRST AID MEASURES

Inhalation: Remove the victim from exposure site to fresh air and keep at rest. If the symptoms persist, seek medical advice. Put unconscious person on lateral recumbent position.

Eye Exposure: Remove immediately contact lenses if used by the victim. Flush eyes with plenty of water, keeping eyelids open. Seek advice of ophthalmologist .

Skin Exposure: Remove contaminated clothes. Wash affected skin area with hot water. If skin irritation persists, seek medical advice.

Ingestion: Rinse mouth with water. Make the victim drink approx. 1-2 l water and eat activated carbon. Do not provoke vomiting. Consult the case with physician, showing him the product label. Do not give anything to drink if the victim is unconscious.

5. FIRE-FIGHTING MEASURES

Fire hazard: Product is non-flammable.

Fire fighting: If possible, remove (isolate) containers with product from exposure site. Cool down containers with product using strong water stream. Use extinguishing media recommended below for fire extinguishing. Dispose post-fire residuals along with extinguishing water in compliance with local regulations.

Recommended extinguishing media: foam, CO₂ aggregates, powders or water spray

Inappropriate extinguishing media: Concentrated waterjet.

Hazardous decomposition products: Hazardous carbon monoxide may form as a result of product decomposition during combustion.

Personal Protective Equipment: Use of protective clothes and self-contained breathing apparatus is recommended.

6. ACCIDENTAL RELEASE MEASURES

General: In case of major spillage, isolate contaminated area and evacuate strangers to outside. First of all, isolate and secure source of environment contamination. Collect spilled product and transfer it for disposal. Call rescue brigade, if necessary.

Individual precautions: Avoid any direct contact with product, particularly of eyes and skin. Do not inhale vapours. Wear protective clothes and gloves.

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Environment Precautions: Limit or remove spillage. Embank stains of spilled product. Do not allow for entry of the product into drains, soil, water reservoirs and surface waters. If possible, return the product for re-use. Absorb residual contamination by sand, diatomite or other absorbing material. Flush contaminated area with plenty of water. Put the wastes into appropriate containers and incinerate in appropriate conditions or dispose to designated disposal yards. Observe local regulations.

Other recommendations Isolate the product from flammable materials.

Further information of waste disposal – see Sec. 8 and 13

7. HANDLING AND STORAGE

Handling: Do not drink, eat or use any drugs while handling. Avoid contact with liquid, do not inhale nor ingest the product. Respect good personal hygiene and safety-at-work regulations. Wear protective clothes. Provide proper ventilation of working area. Remove contaminated clothes and wash before re-use.

Storage: Store the product in labelled, tightly closed original containers in well ventilated, shadowed area away from direct sunlight and fire sources. Recommended storage temperature: 5-35°C. Do not store in vicinity of foodstuffs, animal food or sources of drinking water.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Product contains ingredients hazardous to human health when present in working place (in accordance with the *Regulation On Maximum Admissible Concentrations Depending On Exposure Time During Working Shift* as amended (published in Journals of Laws No. 217 of 29.11.2002, Item 1833 and No. 212 of 10.10.2005, Item 1769).

Specific control parameter

Name	CAS No.	MAC (mg/m ³)	MACCh (mg/m ³)
Ethanol	64-17-5	1900	-----
Isopropanol	67-63-0	900	1200
Butylene glycol	111-76-2	98	200

General: Eye flushing and Personal Protective Equipment should be available at working place.

Respiratory way protection Diluted product is not hazardous when normally used with observance of safety precautions. Use protection of respiratory ways with filter in case of high product concentration and/or improper ventilation or when aerosol has been formed.

Eye protection: Wear tight protective goggles.

Hand protection: Wear alkali –resistant protective gloves.

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Skin protection: Wear working clothes and footwear.
Safety-at-work: Provide eye flushing equipment and showers in hazardous areas.
Technical solutions: When handling the product, use appropriate protective measures for minimizing contact with the product and for improvement of safety-at-work conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Colour:	colourless
Odour:	subject to the composition
pH:	neutral
Freezing point	approx. 0 °C
Boiling point:	100 °C
Flash point:	not applicable (water solution)
Flammability:	not applicable
Explosion limits:	not applicable
Oxidizing properties:	not applicable
Density at 20°C:	approx. 1,00 g/cm ³
Solubility:	
In water:	soluble
In organic solvents:	soluble in some organic solvents – e.g. alcohol

10. STABILITY AND REACTIVITY

Stability: Product is stable in normal conditions

Reactivity: Product may react with light metals producing gaseous hydrogen, which may form explosive mixture with air. Product reacts with acids.

Conditions to avoid: Temperature > 40°C

Materials to avoid: Strong oxidizers, strong acids and alkali.

Hazardous decomposition products: Toxic carbon monoxide may form during combustion.

11. TOXICOLOGICAL INFORMATION

Toxicological information pursuant to ESIS:

Ingredients	CAS – no	Dose	Value	Measurement unit
Isopropanol	67-63-0	Ingestion LD ₅₀ for rat	5045	mg/kg
		Inhalation LD ₅₀ for rat	16000	ppm/8h
		Skin LD ₅₀ for rabbit	1200	mg/kg
		Ingestion LDL ₀ for human	3571	mg/kg

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Ethanol	64-17-5	Ingestion LD ₅₀ for rat	6200	mg/kg
		Inhalation LD ₅₀ for rat	>8000	mg/l/4h
		Skin LD ₅₀ for rabbit	>20000	mg/kg
Butylene glycol	111-76-2	Ingestion LD ₅₀ for rat	<2000	
		Inhalation LD ₅₀ for rat	<20	
		Skin LD ₅₀ for rabbit	<2000	

<i>Acute toxicity:</i>	None
<i>Inhalation exposure:</i>	No adverse effects.
<i>Skin exposure:</i>	No adverse effects.
<i>Eye exposure:</i>	No adverse effects.
<i>Ingestion:</i>	Stomach-ache, nausea and vomiting.
<i>Chronic exposure consequences:</i>	Slight irritation of mucous membranes, slight skin dryness.
<i>Allergic effects:</i>	None
<i>Chronic effects:</i>	None
<i>Mutagenic effects</i>	None
<i>Carcinogenic effects:</i>	None
<i>Reproduction effects:</i>	None

12. ECOLOGICAL INFORMATION

Impact on reference species – information after ESIS

Ingredients	CAS - no	Dose	Value	Measurement unit
Ethanol	64-17-5	LC ₅₀ – fish	8140	mg/l (48h)
		EC ₅₀ – invertebrates	9266-14221	mg/l (48h)
		EC ₅ – algae	5000	mg/l (7d)
Isopropanol	67-63-0	LC ₅₀ – fish	9640	mg/l (96h)
		EC ₅₀ – invertebrates	13299	mg/l (48h)
		IC ₅₀ – algae	>1000	mg/l (72h)
Butylene glycol	111-76-2	LC ₅₀ – fish	>100	mg/l (96h)
		EC ₅₀ – invertebrates	>100	mg/l (48h)
		LC ₅₀ – bacteria	>100	mg/l
		IC ₅₀ – algae	>100	Mg/l (7 days)

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Mobility: Some ingredients are mobile and may permeate into ground waters.

Bio-degradability: Product is biodegradable.

Abiotic decomposition: No data available

Bioaccumulation: No data available .

Toxicity for aquatic organisms: Product does not show any adverse effects on aquatic environment. Nevertheless, avoid discharge of product residuals to natural environment.

13. DISPOSAL CONSIDERATIONS

Waste code: Wastes are not classified to hazardous wastes.

Handling: Wastes are not classified as hazardous. Whenever possible they should be recycled and returned to a full-value product. Wastes shall be incinerated in licensed waste incineration plant or disposed on a designated disposal yard.

Contaminated packaging: Whenever possible, use returnable containers. Flush containers with water few times. Return used water for production purposes. If required, incinerate packaging in licensed waste incineration plant or disposed on a designated disposal yard.

Wastes should be disposed with observance of national and local regulations. Adhere to the regulations stipulated in the following acts published in: Journal of Laws No. 62 Item 628 of 27.04.2001, Journal of Laws No. 63 Item 638 of 11.05.2001, Journal of Laws No. 6112 Item 1206 of 27.09.2001, Journal of Laws No. 7 Item 78 of 19.12.2003, Journal of Laws No. 11 Item 97 of 18.12.2003, Journal of Laws No. 116 Item 1208 of 20.04.2004, Journal of Laws No. 25 Item 221 of 10.02.2004, Journal of Laws No. 191 Item 1595 of 30.10.2002

14. TRANSPORT INFORMATION

Product is not a hazardous substance in the meaning of carriage regulations. Store away from foodstuffs and materials easily absorbing odours.

15. REGULATORY INFORMATION

Warning symbols on product packaging labels: None

Warning advice on product packaging labels None

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Risk-phrases R None

Safety phrases S S2 Keep out of the reach of children
S45 In case of accident or if you feel unwell seek medical advice immediately
(show the label where possible)

Legal basis

- 1 Directive 91/155/EEC of March 5, 1991.
- 2 Ordinance of the Economy Minister of March 5, 2001 On Detailed Rules For Disposal, Use And Neutralization Of Hazardous Wastes. (Published in Journal of Laws No.22, Item 251)
- 3 Ordinance Of Environment Minister Of September 27, 2001 On Waste Catalogue (Published in Journal of Laws No.112, Item 1206)
- 4 Classification Of Hazardous Goods In Accordance With The European Agreement Concerning The International Carriage Of Dangerous Goods By Road (ADR) (effective 01.07. 2001).
- 5 Chemical Substance and Preparation Act of July 5, 2002 (Published in Journal of Laws No.142,Item 1187).
- 6 Ordinance of Health Minister of Sep 2, 2003 on Criteria and Way of Substance and Preparation Classification (Published in Journal of Laws No.171, Item 1666).
- 7 Ordinance of Health Minister of July 14, 2002 on Obligation to Provide Safety Data Sheets For Some Preparations Not Classified To Hazardous Goods. (Published in Journal of Laws No.142, Item 1194).
- 8 Ordinance of Health Minister of July 3, 2002 on Hazardous Substance and Preparation Safety Data Sheets (Published in Journal of Laws No.140, Item 1171).
- 9 Ordinance of Labor and Social Policy Minister of Nov 29, 2002 on Maximum Admissible Concentrations and Intensities of Agents Hazardous to Health In Work Environment (Published in Journal of Laws No.217, Item 1833).
- 10 Ordinance of Labor and Social Policy Minister of Oct 10, 2005 amending the Ordinance of Labor and Social Policy Minister of Nov 29, 2002 on Maximum Admissible Concentrations and Intensities of Agents Hazardous to Human Health In Work Environment (Published in Journal of Laws No 212 Item 1769)
- 11 Ordinance of Health Minister of Sep 28, 2005 On List Of Hazardous Substances Along With Their Classification And Identification (Published in Journal of Laws No.201, Item 1674).
- 12 Ordinance of Health Minister of Jan 17, 2003 on Hazardous Preparations For Which Safety Data Sheets Are Not Required (Published in Journal of Laws No.19, Item 170)
- 13 Ordinance of Health Minister of Feb 18, 2003 On Details To Be Provided To Inspector Of Chemical Substances And Preparations By Producer Or Importer In Case Of Introduction Of Certain New Substances For Circulation In The Territory Of The Republic Of Poland (Published in Journal of Laws No. 50, Item 436)
- 14 Ordinance of Health Minister of Feb 18, 2003 on details to be provided by the applicant in documentation for assessment of risk created by new substance to human health and environment (Published in Journal of Laws No. 50, Item 437).
- 15 Ordinance of Health Minister of March 14, 2003 On The Way Of Identification Of Places, Pipelines, Containers And Tanks For Storage Of Or Containing Hazardous Substances Or Preparations (Published in Journal of Laws No. 61, Item 552).
- 16 Ordinance of the Economy Minister of May 31, 2003 on Essential Requirements for Personal Protective Equipment (Published in Journal of Laws No. 80, Item 725).

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- Ordinance of Health Minister of Feb 18, 2003 On Determination Of Limits For Entry Of New
17 Substances Into Circulation And Scopes And Types Of Tests To Be Performed Once The Said
Limits Have Been Exceeded (Published in Journal of Laws No .50, Item 438).
- 18 Ordinance of Health Minister of Dec 14, 2004 on Amendment of the Ordinance on Hazardous
Substance And Preparation Safety Data Sheet (Published in Journal of Laws No. 2, Item 8).
- Ordinance of Health Minister of Jan 13, 2004 On Chemical Substances Comprised In Products Or
19 Being In Circulation, Which Are Subject To Reporting. (Published in Journal of Laws No. 12, Item
111).
- Ordinance of Health Minister of Apr 30, 2004 On Hazardous Substances And Preparations, Which
20 Are To Be Kept In Packaging With Child Safety Lock And Bearing Hazard Warning Advice Made
In Form Able For Sensing By Blind Persons (Published in Journal of Laws No. 128, Item 1348).
- Ordinance of Health Minister of Dec 1, 2004 On Substances, Preparations And Technological
21 Processes Of Carcinogenic Or Mutagenic Effects Present In Work Environment (Published in
Journal of Laws No. 280, Item 2771).
- Ordinance of Health Minister of Jan 12, 2005 On The Way Of Assessment Of Risk Created By New
22 Substances To Human Health And Natural Environment (Published in Journal of Laws No. 16, Item
138).
- Ordinance of Labor and Social Policy Minister of Feb 21, 2005 On Restrictions Of , Prohibition Of
23 Or Specific Conditions For Production, Circulation Or Application Of Hazardous Substances And
Preparations And Products Containing Such Hazardous Substances And Preparations (Published in
Journal of Laws No. 39, Item 372).

16. OTHER INFORMATION

Explanation of symbols used in this document:

Xi Irritant
Xn Injurious
F Highly flammable
R11 Highly flammable
R36 Irritating to eyes
R37 Irritating to respiratory system
R36/38 Irritating to eyes and skin
R67 Vapours may cause drowsiness and dizziness
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed

For further information – please contact:

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Additional Information

All data provided in this Safety Data Sheet are based on our current knowledge of the product and have been given as an aid for safe handling, transportation and storage of the product and for taking proper measures in case of its accidental release or fire.

This information shall not be deemed as any product guarantee or specification and may not be used as the basis for any legal liability nor for guarantee of the product properties. Use of the data comprised herein and the manner by which the product is used are beyond the control of the manufacturer. The User is solely obliged to take proper actions to get compliance with provisions of applicable national laws.