

**1. PRODUCT IDENTIFICATION**

**MANUFACTURER, IMPORTER OR DISTRIBUTOR IDENTIFICATION**

**1.1. Data concerning the product:** **GUARD B Glass**  
**1.2. Intended use:** A Preparation for a long term and effective protection of windscreens  
**APP no.:** 222025B  
**Distributor:** AUTO – PLAST PRODUKT Sp. z o. o.  
 Ul. Przemysłowa 10, 62 – 300 Września  
 Tel. +48 (061) 437 00 00  
 Fax. +48 (061) 437 91 37  
 e-mail: app@app.com.pl  
 www: [www.app.com.pl](http://www.app.com.pl)  
**Emergency telephone:** Tel. +48 (061) 437 00 00  
 Current safety data and technical information available at the website.  
**Date of MSDS preparation:** 19.04.2010



**2. HAZARDS IDENTIFICATION**

Pursuant to the regulations in force (see p. 15) the product is classified as hazardous.

**2.1. Physical and chemical hazards:**

- highly flammable liquid
- vapours create flammable and explosive mixtures with air
- vapours may float from the source of ignition and return in the form of flame
- heating up, spark or contact with fire may cause ignition
- liberates toxic gases in the conditions of fire

**2.2. Hazard to health**

- the product is irritant
- the product is irritant to eyes
- vapours may cause drowsiness and dizziness

**2.3. Hazard to the environment.**

- the product is not classified as hazardous to the environment.
- avoid release to the environment.
- refer to special instructions/safety data sheets

**3. COMPOSITION AND INFORMATION ON COMPONENTS**

The classification of the substances contained in the product is reported in accordance with the table 3.2 of the VI appendix to the Regulation (EC) No 1272/2008 of the European Parliament and of the Council (GHS Regulation), taking into consideration 30 and 31 ATP to the 67/548/EEC and basing on the data provided by the manufacturer.

**3.1. Hazardous components:**

No.	EC no.(EINECS)	Product name:		
	CAS no.	R phrase	Classification	Contents [%]
1.	200-661-7	Isopropyl alcohol.		
	67-63-0			
	603-117-00-0	<b>R11; R36; R67</b>	<b>F;Xi</b>	<b>10 ÷ 25</b>

The meaning of symbols and contents of R phrases – see item 16.

**4. FIRST AID MEASURES**

**4.1. General recommendations:**

*If any non-desirable symptoms occur, call the doctor immediately or take injured to hospital, show the product packing, label or MSDS.*

**4.2. First aid in case of inhalation exposure:**

- take the injured person to a well ventilated room
- medical attention necessary

**4.3. First aid in case of eye contamination:**

- flush contaminated eyes, with eyelids open, with a lot of running water, for 10-15 minutes, avoid strong water jet which may cause the risk of damaging cornea.
- do not use any liquids for rinsing eyes or any ointments before medical consultation.
- in case if the injured person uses contact lenses, remove them
- medical attention necessary.

**4.4. First aid in case of skin contamination:**

- take off dirty clothing
- wash skin exposed to contact with the product, with plenty of water with soap

- get medical attention.

**4.5. First aid in case of swallowing:**

- rinse mouth with a lot of running water
  - do not induce vomiting
  - medical attention necessary
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**5. FIRE FIGHTING MEASURES**

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**5.1. Fire hazards:**

- highly flammable liquid
- vapours create flammable and explosive mixtures with air
- vapours may float from the source of ignition and return in the form of flame
- heating up, spark or contact with fire may cause ignition
- liberates toxic gases in fire

**5.2. Recommended extinguishing media:**

- carbon dioxide (CO<sub>2</sub>)
- extinguishing powders
- foams resistant to alcohol
- water – dispersed currents

**5.3. Not recommended extinguishing media:**

- water – strong jet

**5.4. Special hazards:**

- Containers exposed to fire or high temperature cool with water, from a safe distance, and if this is not possible, remove them from hazard area
- the explosion of the container may occur in the conditions of fire

**5.5. General advice:**

- Alarm about fire
- remove all people who do not take part in rescue operation from danger zone;
- if the need arises, order evacuation
- avoid inhaling the smoke
- remove all sources of ignition
- Wear protective clothing and use protective equipment
- protect respiratory tract
- cool containers exposed to contact with fire with water
- do not let extinguishing media enter the sewage system

**5.6. Hazardous products of combustion:**

- carbon monoxides
- toxic fumes and smokes

**5.7. Personal protection:**

- self-contained breathing apparatus and protective clothing
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**6. ACCIDENTAL RELEASE MEASURES**

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**Notice:** *Explosion endangered area - vapours create flammable and explosive mixtures with air*

**6.1. General advice:**

- in case of releasing large amounts, notify competent services about the accident
- in case of releasing large amounts, remove all people who do not take part in repairs from danger zone

**6.2. Personal protection:**

- when removing large amounts of the product, wear self-contained breathing apparatus with a mask
- when removing, do not breathe in product vapours
- avoid contact with releasing product
- use protective gloves and protective clothing
- Apply tight protective goggles with side cover or an adequate protective mask

**6.3. Detailed advice:**

- remove all sources of ignition
- do not smoke

**6.4. Environmental precautions:**

- Eliminate spillage (shut off liquid flow, seal, damaged container put in emergency container)
- avoid the contamination of groundwater, protect sink basins
- do not let the product enter the sewage system or draining system
- if the product reached the water or draining system, contaminated the earth or flora, notify competent services

**6.5. Cleaning procedures:**

- small amounts of released product wipe with paper or a cloth, put in a closed, properly marked container
- bigger amounts of released product cover up with inflammable absorbing material (sand, diatomaceous earth, universal binding material), put in a closed, properly marked container
- in case of big spillage, embark the place where the liquid accumulates

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- eliminate all possible sources of ignition, do not smoke
- collected absorbing materials also create fire hazard
- air the rooms which the product reached
- wash the place of spillage after removing the material

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### 7. HANDLING AND STORAGE

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**Notice:** *Explosion endangered area - vapours create flammable and explosive mixtures with air*

#### **7.1. Handling the product:**

- product vapours may create flammable and explosive mixtures with air; when handling the product, ensure efficient air circulation (general ventilation of the room and local exhaust ventilation); do not let product vapours concentrations in the air, the mixtures of which with air may be explosive, and concentrations exceeding the values of hygienic standards
- Do not inhale the product vapours, avoid direct contact of product with skin and eyes; use adequate personal protection measures
- do not allow the contact of the product with hot surface or flame, do not work near the sources of ignition, do not use sparking tools, absolute ban on smoking
- do not heat, do not cut and do not squeeze the containers with the product or its remains
- provide easy access to extinguishing media and the equipment necessary to remove the spillage of the product
- handle the product pursuant to the general principles of work health and safety concerning chemical substances; strictly follow the proceeding procedures; when handling the product, apply general work health and safety regulations contained in the Regulation of the Minister of Labour and Social Policy dated 11th June 2002 (Dz. U. no. 91 dated 2001, item 811); observe the advice included in the instructions provided by the manufacturer
- do not eat, drink and smoke when handling the product, except for the places designed for this; wash hands before the breaks and after work, if necessary use hand cream
- do not allow for the contamination of skin, eyes and clothing
- avoid long-term and repeated exposure
- work in ventilated rooms

#### **7.2. Storage:**

- store the product in cool, dry and well ventilated rooms,
- previously opened containers store vertically to make the leakage of the product impossible
- Protect the containers before direct action of sunlight, sources of heat, keep away of the sources of ignition; ban on smoking in the warehouse
- do not store near food
- do not let water enter the container

#### **7.3. Requirements concerning the room:**

- cool, dry and well ventilated.

#### **7.4. Package:**

- for safety reasons, it is recommended to store the product in original packages
- Store in tightly closed, adequately marked containers
- protect packages from mechanical damage

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### 8. EXPOSURE CONTROL AND PERSONAL PROTECTION

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#### **8.1. Hazard to health**

Medical examinations of the employees, tests and measurements of hazardous factors are to be performed in accordance with binding provisions of law.

Pursuant to the regulation of the Council of Ministers dated 30<sup>th</sup> July 2002 on the list of works forbidden to women (Dz. U. no. 127 dated 2002, item 1192), pregnant women and breast-feeding women are forbidden to perform operations if organic solvents concentration exceeds 1/3 value of permitted values

#### **8.2. Precautions:**

- Store and use well ventilated room.

#### **8.3. Personal protection:**

- Thoroughly wash the whole body after work.
- Wash contaminated clothing and footwear before another use

#### **8.4. Hazard to health**

Pursuant to the regulation of the Minister of Labour and Social Policy dated 29<sup>th</sup> November 2002 (Dz. U. no. 217 item 1833) with the amendment (Dz. U. No. 212 item 1769 dated 2005; Dz. U. No. 161 item 1141, 1142 dated 2007; Dz. U. No 105 item 873 dated 2009):

No.	CAS no.	Chemical substance name:	Highest admissible concentration in mg/m <sup>3</sup> depending on time of exposure during one shift.
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			NDS	NDSch	NDSP
1.	67-63-0	2-propanol	900	1200	-

### **8.5. Recommended monitoring procedures:**

- PN-89/Z-01001/06. Air purity protection. Names, definitions and units. Terminology concerning air quality tests at work places.
- PN-89/Z-04008/07. Air purity protection. Collecting samples. Principles of collecting air samples in work environment and the interpretation of results.
- PN-92/Z-04224 sheet 02. Air purity protection. Examination of the propyl alcohol content. Marking isopropyl alcohol on the working stations using gas chromatography method.

### **8.7. Hygienic advice:**

Avoid direct contact of the product with skin and eyes and inhaling the product vapours; use the product in the rooms with efficiently working ventilation and, if necessary, use respiratory tract protection measures; immediately take off contaminated clothing and wash contaminated skin with water with soap; do not eat, drink and smoke when handling the product, except for the places designed for this, wash hands before breaks at work and after finishing work with the product, use hand cream when necessary.

When substance concentration is determined and known, personal protection media should be selected with the consideration of the concentration of the substance occurring at a given work station, time of exposure and the activities performed by the employee pursuant to the catalogue "Individual protection media" issued by Central Institute for Labour Protection.

In case of emergency, even if the concentration of the substance at work station is not know, use individual protection media of the highest recommended protection class.

### **8.8. Personal protection ensuring adequate protection:**

hands: protective gloves made of materials resistant to the action and permeating of organic solvents  
 skin: protective clothing (PVC, PE)  
 respiratory tract: ensure good ventilation.  
 eyes: protective goggles or mask protecting the face

Notice! Recommended protective equipment must be certified for safety mark pursuant to the Regulation of the Council of Ministers dated 9<sup>th</sup> November 1999 on the list of goods manufactured in Poland as well as goods imported to Poland for the first time, which may cause danger or serving the protection or saving life, health or the environment, being subject to the certification for safety mark and marking with this mark and the goods subject to the obligation of issuing the declaration of conformity by the manufacturer.

The employer is obliged to make sure that the used individual protection media as well as protective clothing and footwear had the protective usable properties and assure their adequate washing, maintenance, repair and decontamination.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

form, appearance:	liquid
colour:	transparent
odour:	characteristic
pH	2,1
boiling point:	82°C
melting point:	not determined
burning temperature:	not determined
flash point	14°C
autoignition temperature:	425°C
combustibility:	highly flammable liquid
explosive properties:	The product is not endangered with explosion; vapours create explosive mixtures with air
hazard danger boundaries:	
- lower:	2% vol.
- upper:	12% vol.
oxidizing properties:	none
vapour pressure:	43 hPa (in the temperature of 20°C)
density:	0,89 g/cm <sup>3</sup> (in the temperature of 20°C)
vapour density:	not determined
solubility:	
- in water:	does mix
- in organic solvents:	does mix

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Distribution ratio n- octanol/water	not determined
VOC content:	65%; 573 g/dm <sup>3</sup>

### 10. STABILITY AND REACTIVITY

#### 10.1. Stability:

- stable in normal conditions of application and storage

#### 10.2. Conditions to avoid:

- high temperature

#### 10.3. Materials to avoid:

- strong oxidizing agents
- strong acids and bases

#### 10.4. Hazardous products of decomposition/combustion:-

- carbon monoxides
- toxic gases and smokes

### 11. TOXICOLOGICAL INFORMATION

#### 11.1. Hazards to health

- the product is irritant
- the product is irritant to eyes
- product vapours may cause drowsiness and dizziness

#### 11.2. Toxic doses and concentrations:

##### Isopropanol:

Odour recognition threshold:	100 ÷ 500 mg/m <sup>3</sup>
LD50 (rat, orally):	5045 mg/kg
LD50 (rabbit, skin):	12800 mg/kg
TDL0 (human, orally):	223 mg/kg
LDL0 (human, orally):	3570 mg/kg

#### 11.3. Effects of acute exposure at people (for the product):

##### Inhalation:

In high concentrations the product vapours may be irritant to respiratory tract and eye mucosa (they cause lacrimation and eye pain, conjunctival congestion, cough, throat and nose burning).

The action on central nervous system manifests itself with stupor, pain and dizziness, somnolence.

##### Skin contact:

When in contact with skin may cause reddening and skin irritation, especially in cases of prolonged contact.

##### Eye contact:

Product and vapours may cause eye mucosa irritation manifesting itself with reddening, lacrimation and pain.

##### Swallowing:

Causes mucous membrane irritation of the alimentary system, stomach ache, nausea, vomiting, diarrhoea and other symptoms related to the systemic effect of the substance.

### 12. ECOLOGICAL INFORMATION

#### 12.1. Hazards for the environment.

- the product is not classified as hazardous to the environment
- Avoid release to the environment.
- Refer to special instructions/safety data sheets

#### 12.2. Ecotoxic effect:

##### Isopropanol:

Toxic concentration limit for:

- *Pimephales promelas* LC50: 9640 mg/dm<sup>3</sup>/96 h

Toxic concentration limit for:

- fish: *Leuciscus idus melanotus* LC0: 7020 mg/dm<sup>3</sup>/48 h
- Shellfish: *Daphnia magna* EC0: 5102 mg/dm<sup>3</sup>/24 h
- bacteria: *Pseudomonas putida*: 1050 mg/dm<sup>3</sup>

#### 12.3. Mobility:

- no data available

#### 12.4. Permanence and capacity to decay:

- no data available

#### 12.5. Bioaccumulative capacity:

- no data available

#### 12.6. Assessment of PBT characteristics:

- no data available

#### 12.7. Other hazardous effects:

- Chemically bound chlorine content: does not contain

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- Chemically bound or connected ions of heavy metals: does not contain  
Follow the regulations. Do not allow infiltration to the natural environment. The product is not hazardous to the environment when properly used. Do not allow the contamination of surface waters, ground waters and soil. Do not dispose in the sewage system. It is forbidden to dispose the product in the sewers or watercourses.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1. Waste material proceedings:

Do not dispose in the sewage system. Do not let any material enter surface water, ground water and soil.  
Do not dispose wasted product in the sewage system. Wind down in authorized combustion plants or waste treatments institutions in accordance with binding provisions of law (refer to point 15).

Waste code:	Waste kind
08 01 11	Paint and lacquer wastes containing organic solvents or other hazardous substances.
15 01 04	Metallic packaging

Do not allow the infiltration of the product to the sewer system and watercourses.  
Disposal of the empty containers (packagings) should be performed in accordance with the binding provisions of law.

### 14. TRANSPORT INFORMATION

#### 14.1. Road transport:

Class ADR/RID:	3
UN material recognition no.:	1219
Danger recognition no.:	33
Classification code:	F1
Package group:	III
Label:	No. 3
Name in transport documentation:	1219 ISOPROPANOL

### 15. REGULATORY REGULATION

The classification and labelling of the product is reported in accordance with the provisions provided in the Regulation (EC) No 1272/2008 of the European Parliament and basing on the data provided by the manufacturer.

#### Package marking:

##### Warning marks:



**F**      **Highly flammable product**



**Xi**      **Irritating product**

#### Hazard phrases:

R36      The product is irritant to eyes  
R67      Vapours may cause sleepiness and vertigo

#### Phrases indicating conditions of safe usage:

S2      Keep out of the reach of children.  
S9      Store the container in a well ventilated place  
S16      Do not store near ignition sources – do not smoke  
S23      Do not breathe dispersed liquid  
S46      If swallowed, seek medical advice immediately and show this container or label.

#### Regulations in force:

- 1 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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (30.12.2006 PL Official Journal of the European Union L 396/1)
- 2 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (known as the GHS Regulation) (31.12.2008 PL Official Journal of the European Union L 353)

- 3 Act dated 11<sup>th</sup> January 2001 on chemical substances and preparations (Dz. U. No 11 item 84 dated 2001) with subsequent amendments) including Act dated 9<sup>th</sup> January 2009 on amendment of the act on chemical substances and preparations and other acts (Dz.U. No 20 item 106 dated 2009)
- 4 Act dated 27<sup>th</sup> April 2001 on waste (Dz. U. No 62 item 628 dated 2001) together with the Regulation of the Minister of the Environment (Dz. U. No 152 item 1735 dated 2001)
- 5 Act dated 11<sup>th</sup> May 2001 on package and package waste (Dz. U. No. 63, item 638 dated 2001) with subsequent amendments
- 6 Proclamation of the Marshal of the Parliament of the Republic of Poland dated 4th July 2006 on announcing single text of the act - Environment Protection Law (Dz. U. No 129 item 902 dated 2006)
- 7 Act dated 28<sup>th</sup> October 2002 on land transport of hazardous materials (Dz. U. No 199 item 1671 dated 2001) with subsequent amendments
- 8 Regulation of Minister of Health of 2<sup>nd</sup> September 2003 on marking of dangerous substance and preparation packages (Dz. U. No 173 item 1679 dated 2003) with subsequent amendments of 9<sup>th</sup> November 2004 (Dz. U. No 260 item 2595 dated 2004) and 5<sup>th</sup> march 2009 (Dz.U. No 53 item 439 dated 2009)
- 9 Regulation of Minister of Health of 2<sup>nd</sup> September 2003 on criteria and classification method for chemical substances and preparations (Dz. U. No 171 item 1666 dated 2003) with subsequent amendment of 4<sup>th</sup> September 2007 (Dz.U. No 174 item 1222 dated 2007) and 5<sup>th</sup> march 2009 (Dz.U. No 43 item 353 dated 2009)
- 10 Regulation of Minister of Labour and Social Policy of 29<sup>th</sup> November 2002 on the acceptable limits of concentration and intensity of hazardous factors in the work environment (Dz.U. No 217 item 1833 dated 2002) with subsequent amendments (Dz.U. No 212 item 1769 dated 2005, Dz.U. No 161 item 1142 dated 2007 and Dz.U. No 105 item 873 dated 2009).
- 11 Government Proclamation of 16<sup>th</sup> January 2009 on entering into force of the amendments to annexes A and B of the European Agreement on Dangerous Goods by Road (ADR), drawn up at Geneva on 30<sup>th</sup> September 1957 (Dz.U. No 27 item 162 dated 2009)
- 12 Regulation of Minister of Environment of 27<sup>th</sup> September 2001 on waste catalogue (Dz.U. No 112 item 1206 dated 2001)
- 13 Proclamation of Minister of Economy and Minister of Labour and Social Policy of 28<sup>th</sup> August 2003 on publication of the consolidated text of the Regulation of Minister of Labour and Social Policy on the general provisions of health and safety (Dz.U. No 169 item 1650 dated 2003)
- 14 Regulation of the Council of Ministers of 10<sup>th</sup> September 1996 on list of the occupations prohibited to women (Dz.U. 196 No 114 item 545) with subsequent amendment (Dz.U. No 127 item 1092 dated 2002)
- 15 Regulation of Minister of Health of 20<sup>th</sup> April 2005 on inspection and measurement of hazardous factors in work environment (Dz.U. No 73 item 645 dated 2005) with amendment ( Dz..U. No 241 item 1772 dated 2007.
- 16 Regulation of the Minister of Health and Social Welfare dated 30th May 1996 on conducting medical tests of employees, the scope of prevention in health care of the employees and doctor's statements issued for the purposes stated in the Labour Code (Dz. U. No. 69 item 332 dates 1996) with subsequent amendments (Dz. U. No 37 item 451 and Dz. U. No. 128, item 1405 dated 2001)
- 17 Regulation of the Council of Ministers dated 24<sup>th</sup> August 2004 on the list of works forbidden to the juvenile and the conditions of employing them at some works (Dz. U. No. 200 item 2047 dated 2004) with subsequent amendments (Dz. U. No 136 item 1145 dated 2005)
- 18 Regulation of Minister of Economy and Labour dated 5<sup>th</sup> July 2004 on the limitations, bans or production conditions, trading or the use of hazardous substances and preparations and the products containing them (Dz. U. No. 168 item 1762 dated 2004) with subsequent amendments (Dz. U. No 39 item 372 dated 2005 and Dz. U. No. 127, item 887 dated 2006)
- 19 Act dated 29<sup>th</sup> July 2005 on counteracting drug abuse (Dz. U. No. 179, item 1485 dated 2005) with the amendment (Dz. U. No. 120, item 826 dated 2006 and the Regulation (EC) No. 273/2004 of the European Parliament and the Council dated 11<sup>th</sup> February 2004. on the precursors of drugs (Dz. Urz. EC L 047 dated 18th February 2005) and the Regulation (EC) and the Council No. 111/2005 dated 22<sup>nd</sup> December 2004 defining the principles of supervising the trade with drugs precursors between the Community and the third countries (Dz. Urz. EC L 22 dated 26th January 2005, page 1; Dz. Urz. EC Polish special issue dated 2005, volume 48, page 1).

## 16. OTHER INFORMATION

### The meaning of symbols and the contents of R phrases included in item 3:

F	Highly flammable product
Xi	Irritating product
R11	Highly flammable product
R36	Irritating to eyes
R67	Vapours may cause drowsiness and dizziness.

Employees' medical tests and tests and measurements of the harmful factors to be made pursuant to the valid regulations. This material safety data sheet was prepared pursuant to the data coming from the MSDS provided by the manufacturer. The above information was prepared on the basis of current knowledge and experiences. It does not guarantee of the property of the product or quality specification and cannot be the basis for the complaint. The product should be transported, stored and applied pursuant to the regulations in force and good practice and hygiene of work.

The manufacturer does not bear responsibility for any losses arising directly or indirectly from the application of the above interpretation of the regulations or instructions..

The presented information cannot be applied for the mixtures of the product with other substances. The use of information given and the application of the product are not controlled by the manufacturer so it is the user's obligation to create adequate conditions for safe handling the product.

MSDS was prepared by **CHEM-NET S.C. 91-716 Łódź, Nowopolska 9A** [www.chem-net.info](http://www.chem-net.info), at the order of **AUTO – PLAST PRODUKT Sp. z o. o.** MSDS was prepared pursuant to domestic regulations currently in force. The preparation of this MSDS was based on current knowledge and experiences.