

1. PRODUCT IDENTIFICATION

MANUFACTURER, IMPORTER OR DISTRIBUTOR IDENTIFICATION

1.1. Data concerning the product: APP 2K HS HARTER SMART

1.2. Intended use:

APP 020290

Distributor:

No APP: Hardener for colourless lacquer 2K HS Klarlack Smart 4:1

AUTO – PLAST PRODUKT Sp. z o. o.

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Current safety data and technical information available at the website.

Responsible person:

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Date of MSDS preparation:

23.05.2011

2. HAZARDS IDENTIFICATION

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

Product classification: R10; Xi; R36; R43; R52/53; R66; R67

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
- Irritating action on eyes
- product may cause sensitisation by skin contact
- Repeated exposure may cause skin dryness or cracking
- vapours may cause drowsiness and dizziness

2.3. Hazard to the environment:


- the substance is classified as harmful to the environment
- the product is harmful to aquatic organisms
- the product may cause long-term adverse effects in the aquatic environment
- unikać zrzutów do środowiska.
- avoid release to the environment.
- refer to special instructions/safety data sheets

3. COMPOSITION AND INFORMATION ON COMPONENTS

Classification of components in the product is according to the Table 3.1 and 3.2 of the Attachment VI to the Regulation of the European Parliament and European Council (EC) no.1272/2008 (Regulation GHS) taking into consideration 30 and 31 ATP to 67/548/EEC on the basis of data provided by the manufacturer.

3.1. Hazardous components:

L.p.	EC no.(EINECS)	Product name:		
	CAS no.	R phrase	Classification	Contents [%]
	Index no.			
1.	204-658-1	N- Butyl acetone		
	123-86-4			
	607-025-00-1	R10; R66; R67	-	25÷50%
2.	500-060-2	Aliphatic polyisocyanates		
	28182-81-2			
	none	R43	Xi	25÷50%
3.	203-603-9	Octan 1-methoxy-2-propyl; octan 2-methoxy-1-methylethyl		
	108-65-6			
	607-010-00-7	R10; R36	Xi	10÷25%
4.	265-199-0	Solvent naphtha (crude oil), light and aromatic hydrocarbon; low-boiling petrol – without specification notes H and P. Without benzene.		
	64742-95-6			

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	649-356-00-4	R10; R65; R66; R67; R51/53	Xn; N	2,5÷<10%
5.	202-436-9	1,2,4-trimethylbenzene		
	95-63-6			
	601-043-00-3	R10; R20; R36/37/38; R51/53	Xn; N	< 1%

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
- place the injured person in half-lying position, loose clothing, make sure that there are no objects or secretion impeding breathing, in the mouth
- protect from the loss of heat
- if breathing stops, give oxygen or apply artificial respiration
- medical attention necessary in case of any problems with respiration

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, if any alarming symptoms occur

Notice: Persons exposed to eye contamination should be advised about the necessity and method of immediate washing the eyes.

4.4. Pierwsza pomoc przy skażeniu skóry:

- natychmiast zdjąć zabrudzone ubranie
- do not use any solvents or diluents for washing skin
- wash skin exposed to contact with the product, or only suspected to be exposed, with plenty of water with soap
- get medical attention., if any alarming symptoms occur

4.5. First aid in case of swallowing:

- rinse mouth with a lot of running water
- Do not give an unconscious person anything to drink
- medical attention necessary

Note: Unconscious patient must be laid on his/her side, assure calm for poisoned person, protect his/her from loss of warmth, control of breathing and pulse. Never provoke vomiting or administer anything orally to unconscious or woozy person.

5. FIRE FIGHTING MEASURES

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 (CO₂)
- extinguishing powders
- foams resistant to alcohol
- water – dispersed currents
- in case of fire of preparations which contain isocyanates it is permitted to apply fire foams resistant to alcohol or water, only in case of big fires and propagation of flame. Don't apply compact water jet on the surface of product

5.3. Not recommended extinguishing media:

- water – strong jet

5.4. Special hazards:

- Containers expose to fire or high temperature cool with water, from a safe distance, and if this is not possible, remove them from hazard area
- during the burning of the product smoke containing chemical substances hazardous to health such as carbon monoxide and carbon dioxide, nitrogen oxides, hydrogen cyanide and cyanide are created,

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- 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
- nitric oxide
- hydrogen cyanide and cyanides
- toxic fumes and smokes

5.7. Personal protection:

- self-contained breathing apparatus and protective clothing

6. ACCIDENTAL RELEASE MEASURES

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
- 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
- eliminate all possible sources of ignition, do not smoke
- air the rooms which the product reached
- wash the place of spillage after removing the material

7. HANDLING AND STORAGE

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

7.1. Handling the product:

- when preparation is used is must be assured effective ventilation (general ventilation of the room and exhaust ventilation on the spot); it is not allowed to creation of high concentration of vapour of preparation in the air, which exceeds normative, hygienic level
- 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
- 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 (Journal of Laws 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
- store the product in original and tightly closed containers
- optimum storage temperature from 15°C to 25°C
- 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

8. EXPOSURE CONTROL AND PERSONAL PROTECTION**8.1. Hazard to health:**

Employees' medical tests and tests and measurements of harmful substances to be carried out pursuant to the regulations in force.

Pursuant to the regulation of the Council of Ministers dated 30th July 2002 on the list of works forbidden to women (Journal of Laws 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 .

According to the Regulation of the Council of Ministers dated 30th July 2002 amending the Regulation on the list of works forbidden to junior workers (Journal of Laws No 127 dated 2002, item 1091) junior workers are forbidden to perform operations where there is a contact with isocyanates and diisocyanates.

8.2. Precautions:

- place for rinsing of eyes and shower
- 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 29th November 2002 ((Journal of Laws no. 217 item 1833) with the amendments (Journal of Laws No. 212 item 1769 dated 2005; Journal of Laws No. 161 item 1141, 1142 dated 2007; Journal of Laws No. 105 item 873 dated 2009; Journal of Laws no. 141 item 950 dated 2010):

Trimetylobenzen: NDS: 100 mg/m³ NDSCh: 170 mg/m³

Octan 2-metoksy-1-metyloetylu: NDS: 260 mg/m³ NDSCh: 520 mg/m³

Butyl acetate: NDS: 200mg/m³ NDSCh: 950mg/m³

Below, the highest admissible concentration for fuels – derivatives of petroleum included in the list:

Extraction naphtha: NDS: 500 mg/m³

NDSCh: 1500 mg/m³ (parallel marking of benzene in the air obligatory)

Petrol for paints: NDS: 300 mg/m³

NDSCh: 900 mg/m³

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-89/Z-04023. Air purity protection. Tests on the contents (in the mixtures) of harmful substances separating from nitrocellulose painted goods. Determination of acetone, alcohols: ethyl, n-butyl, isobutyl, ethoxyethyl, butoxyethyl; acetates: ethyl, n-butyl, ethoxyethyl, toluene and xylene at work stations with gas chromatography method
- PN-Z-04016-4:1998. Air purity protection. Tests on the contents of trimethylbenzene. Determination of trimethylbenzene at work stations with gas chromatography method.

- This method is recommended by research and development units in the field of occupational health care. Octan 2-methoxy-1-methyloethyl
- PN-68/Z-04051 Determination of ethyl acetate and butyl acetate in the air.
- PN-78/Z-04119 Air purity protection. Tests for the contents of acetic acid esters Determination of acetates: methyl, ethyl, propyl, butyl and amyl at work stations with gas chromatography method along with sample enriching.
- PN-81/Z-04134/01. Air purity protection. Tests defining the contents of oil and its components. Determination of petrol odours sum for extraction, petrol for lacquers and petroleum on work stations with gravimetric method
- PN-81/Z-04134/02. Air purity protection. Tests defining the contents of oil and its components. Determination of petrol odours sum for extraction, petrol for lacquers and petroleum on work stations with gas chromatography method along with sample enriching
- PN-81/Z-04134/03. Air purity protection. Tests defining the contents of oil and its components. Determination of C petrol odours for lacquers at work stations with gas chromatography method along with sample enriching.

8.6. Permissible concentration in biological material (DSB):

- no guidelines

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

respiratory tract: ensure good ventilation; in case of frequent hazard it must be applied cleaning equipment along with multi-gas absorber

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 9th 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:	not determined
boiling point:	126,3°C
melting point:	not determined
burning temperature:	not determined
temperatura zapłonu:	not determined
temperatura samozapłonu:	not determined
combustibility:	flammable liquid
explosive properties:	The product is not endangered with explosion
hazard danger boundaries:	
- lower:	-
- upper:	-
oxidizing properties:	none

vapour pressure:	6,2 mmHg , 20°C
density:	1,03 g/cm ³ , 20°C
vapour density:	4,15 (air=1), 20°C
solubility:	
- in water:	nie miesza się lub miesza się bardzo słabo (z wydzieleniem CO2)
- in organic solvents:	does mix
- in organic solvents:	does mix
viscosity:	12 seconds/4mm (ASTM D 1200-88)
VOC(volatile organic compounds)	525 g/l

10. STABILITY AND REACTIVITY

10.1. Stability:

- stable in normal conditions of application and storage

10.2. Conditions to avoid:

- empty containers may contain explosive vapours of the product
- high temperature
- sources of ignition

10.3. Materials to avoid:

- strong oxidizing agents
- strong acids
- strong bases
- amines
- alcohols
- peroxides
- water, moisture (release of CO2)

10.4. Hazardous products of decomposition/combustion:-

- carbon monoxides
- toxic gases and smokes

11. TOXICOLOGICAL INFORMATION

11.1. Hazards to health :

- Product is irritant
- irritating action on eyes
- product may cause sensitisation by skin contact
- Repeated exposure may cause skin dryness or cracking
- vapours may cause drowsiness and dizziness

11.2. Toxic doses and concentrations:

No data is available for the finished product

Solvent naphtha:

LD50 (rat, orally): 3900 mg/kg

LD50 (rabbit, skin): 3160 mg/kg

Octan 1-metoxy-2-propylene:

LD50 (rat, orally): 8532 mg/kg

Octan n-butyl:

LD50 (rat, orally): 10768 mg/kg

LD50 (rabbit, skin): 17600 mg/kg

LC50 (rat, inhalation): 9,7 mg/m³/4 h

1,2,4-trimetylobenzene:

LD50 (rat, orally): 5000 mg/kg

12. ECOLOGICAL INFORMATION

12.1. Hazards for the environment.

- The product is classified as very hazardous to the environment
- The product is very toxic to aquatic organisms
- The product may cause long-term adverse effects in the aquatic environment.
- Avoid release to the environment.
- Refer to special instructions/safety data sheets

12.2 Ecotoxic action:

Solvent naphtha:

Acute toxicity for fish LC50: 9,2mg/m³/ 96 h

Acute toxicity for shellfish EL50 (*Dahpnia magna*): 6,1mg/m³/ 48 h

Octan n-butyle:

Acute toxicity for fish LC50: 18 mg/m³/ 96 h

No information about mobility of his preparation in different ecosystems, its ability to bioconcentration, biodegradation and ecotoxicity. It is not permitted to contaminate surface water and groundwater or soil.

Follow the regulations. It is not permitted to penetrate environment. If the product is properly used, it isn't hazardous for environment. It is not permitted to contaminate groundwater and surface water or soil. It can't be put into sewage system. It The product can't be disposed to the sewage or water-courses.

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.

Small quantities (at the consumer's) treat as household waste.

Do not dispose large quantities of waste material in the sewage system. Utilize in authorized incineration plants or waste utilization plants, pursuant to the regulations in force (see item 15)

13.2. Contents of the package:

- waste kind: other organic solvents, solutions from rinsing and mother liquor

- waste code: 07 01 04*

- hazardous waste

13.3. Packaging:

- waste kind: package made from metals

- waste code: 15 01 04

14. TRANSPORT INFORMATION

14.1. Road transport:

Classification of material ADR: Class 3

Classification code:: F1

UN material recognition no.: 1263

Proper shipping name: Material similar to paint

Danger recognition no.: 33

Label: 3

Package group: III

15. REGULATORY REGULATION

Classification and labelling is provided according to the provisions of the Regulation of the European Parliament and European Council (EC) no. 1272/2008 and on the basis of data provided by the manufacturer.

Product is calssified as dangerous. Regulations about labelling of the dangerous substances are applied.

Package marking:

Product contains:

May cause sensitisation by skin contact

Aliphatic polyisocyanates

Contains isocyanides.

Please, read the instruction provided by manufacturer

Warning marks:



Xi Irritant product

Warning marks:

R10 Flammable product

R36 Irritating to eyes

R43 May cause sensitisation by skin contact

R52/53 Harmful to aquatic organisms; May cause long-term adverse effects in the aquatic environment

R66 Repeated exposure may cause skin dryness or cracking


R67 Vapours may cause drowsiness and dizziness

Phrases indicating conditions of safe usage:

S23 Do not breathe dispersed liquid

S24/25 Avoid any inhalation, contact with skin and eyes

S37 Wear suitable gloves

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S51 Use only in well-ventilated areas

Note:

If product is commercially available for customers:

- additional phrases are used: "S2 Keep out of the reach of children" and "S46 If swallowed, seek medical advice immediately and show this container or label" Obowiązujące przepisy:

1. The Regulation (EC) no. 1907/2006 of the European Parliament and the Council dated on 18th December 2006 on the registration, assessment, granting permits and applied restrictions in the scope of chemicals (REACH) the establishment of the European Chemicals Agency amending directive 1999/45/EC and repealing the regulation of the Council (EEC) no. 793/93 and the regulation of the Commission (EC) no. 1488/94, as well as the Council directive 76/769/EEC and the Commission's directive 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (correction Public Journal Of the European Union, L 396/1)
2. Regulation of the European Parliament and European Council (EC) no. 1272/2008 dated on 16th December 2008 on the 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 (called Regulation GHS) (31.12.2008 PL Official Journal of the European Union L 353)
3. Act dated 25th February 2011 on chemical substances and their mixtures (Journal of Laws dated 24th March 2011)
4. Act dated on the 27th April 2001 on waste together with the Regulation of the Minister of the Environment (Journal of Laws 2010 no. 185 item 1243)
5. Act dated on the 11th May 2001 on package and package waste (Journal of Laws 2001 no. 63 item 638)
6. Act dated on the 27th April 2001 on an environment protection (Journal of Laws 2008 no. 25 item 150)
7. Act dated 28th October 2002 on land transport of hazardous materials (Journal of Laws No 199 item 1671 dated 2001) with subsequent amendments
8. Regulation of Minister of Health dated 5th March 2009 (Journal of Laws 2009 no. 53 item 439) marking of dangerous substance and preparation packages.
9. Regulation of Minister of Health dated 5th March 2009 (Journal of Laws 2009 no. 43 item 353) amending regulation on criterions and methods of classification of chemical substances and preparations.
10. Regulation of the Minister of Labour and Social Policy dated 29th November 2002 on the highest allowed concentrations and intensity of agents harmful to health in the work environment (Journal of Laws No. 217, item 1833 dated 2002). with the amendments; Journal of Laws no. 212 item 1769 dated 2005; Journal of Laws no. 161 item 1141, 1142 dated 2007; Journal of Laws no. 105 item 873 dated 2009; Journal of Laws no. 141 item 950 dated 2010)
11. Government announcement dated 16th January 2009 on the annexes A and B of the European Agreement concerning international transport of hazardous materials, coming into force (ADR), prepared in Geneva dated 30th September 1957 (Journal of Laws 2009 no. 27 item 162)
12. Regulation of the Minister of Environment dated 27th September 2001 on waste catalogue (Journal of Laws 2001 No 112 item 1206)
13. Proclamation of the Minister of Economy, Labour and Social Policy dated 28th August 2003 regarding announcement of the uniform text of regulation of the Minister of Labour and Social Policy on general rules of industrial safety (Journal of Laws 2003 no. 169 item 1650)
14. Regulation of the Council of Ministers dated 10th September 1996 on the list of works forbidden to women (Journal of Laws 196 no. 114 item 545) with subsequent amendment (Journal of Laws 2002 no. 127 item 1092)
15. Regulation of the Minister of Health dated 20th April 2005 on the tests and measurements of agents harmful to health in the work environment (Journal of Laws 2005 no. 73 item 645) with subsequent amendment (Journal of Laws 2007 no. 241 item 1772)
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 (Journal of Laws No. 69 item 332 dated 1996) with subsequent amendments (Journal of Laws no 37 item 451 dated 2001 and Journal of Laws no. 128 item 1405 dated 2001)
17. Regulation of the Council of Ministers dated 24th August 2004 on the list of works forbidden to the juvenile and the conditions of employing them at some works (Journal of Laws No. 200 item 2047 dated 2004) with subsequent amendments (Journal of Laws No 136 item 1145 dated 2005)
18. Act dated 29th July 2005 on counteracting drug abuse (Journal of Laws No. 179, item 1485 dated 2005) with the amendment (Journal of Laws No. 120, item 826 dated 2006 and the Regulation (EC) No. 273/2004 of the European Parliament and the Council dated 11th February 2004. on the precursors of drugs (Public Journal EC L 047 dated 18th February 2005) and the Regulation (EC) and the Council No. 111/2005 dated 22nd December 2004 defining the principles of supervising the trade with drugs precursors between the Community and the third countries (Public Journal EC L 22 dated 26th January 2005, page 1; Public Journal EC Polish special issue dated 2005, volume 48, page 1) and with amendment (Journal of Laws no. 63 item 322 dated 2011)
19. Regulation of Minister of Health dated 8th February 2010 on the list of dangerous substances with their classification and marking (Journal of Laws 2010 no. 27 item 140 dated 22nd February 2010)
20. Act datek 25th February 2011 on chemical substances and their mixtures (Journal of Laws no. 63 item 322 dated 2011)
21. Regulation of the Commission (EU) NO. 252/2011 dated 15th March 2011 amending Annex 1 to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
22. REGULATION OF THE COMMISSION (EU) no. 286/2011 dated 10th March 2011 for the purposes of its adaptation to technical and scientific progress, Regulation of the European Parliament and European Council (EC) no. 1272/2008 on classification, labelling and packaging of substances and mixtures

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23. REGULATION OF THE COMMISSION (EU) NO. 253/2011 dated 15th March 2011 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annex XIII

16. OTHER INFORMATION

The meaning of symbols and the contents of R phrases included in item 2 and 3:

F	Highly flammable product
Xn	Harmful product
Xi	Irritating product
N	Product hazardous for the environment
R10	Flammable product
R20	Harmful by inhalation
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
R43	May cause sensitisation by skin contact
R65	Harmful action; the product may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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. 90-552 łódź, Kopernika 35/9** 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.