	SAFETY DATA SHEET		
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1. IDENTIFICATION OF THE PREPARATION IDENTIFICATION OF MANUFACTURER AND DISTRIBUTOR

1.1 Identification of preparation: APP 2K HS HARTER XF

1.2 Application of preparation: Hardening agent for two-ingredients acrylic prime.

Distributor:

APP No. 020506, 020507, 020508, 020509
 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
 Webpage: www.app.com.pl

Emergency telephone number: + 48 (061) 437 00 00

Up to date information regarding safety of the product available on webpage.

Date of drafting: 29.05.2007

2. HAZARD IDENTIFICATION

According to effective regulations (See par. 15) the product has been classified as dangerous.

2.1 Physic-chemical hazards

- highly flammable liquid
- vapours with air form flammable and explosive mixtures
- vapours may soar from ignition source and come back as flames
- heating up, sparks or contact with fire may result in ignition
- during fire releases toxic gases

2.2 Health hazards

Product contains carbonimides. Read carefully instructions provided by the manufacturer.

- harmful
- harmful in contact with skin and for respiratory track
- irritating
- irritating to eyes and skin
- sensitizing
- may cause allergy in contact with skin
- product vapours may cause drowsiness and vertigo.

2.3 ENVIRONMENTAL HAZARDS


- not classified as dangerous for environment
- do not discharge into environment
- follow instructions or SDS

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Classification and information on ingredients provided according to Act on chemical substances and preparation of 11 January 2001, on grounds of data provided by manufacturer and general knowledge on substances.

3.1 Dangerous ingredients

No.	WE (EINECS) No.	Substance name		
	CAS No ₂			
	Index No ₂	R phrase	Classification	Content [%]
1	500-600-2	Homopolimer HDI Substance is a polimer		
	28182-81-2			
	None	R43	Xi	25÷50
2	204-658-1	Butyl octane		
	123-86-4			
	607-025-00-1	R10; R66; R 67		10÷25
3	203-603-9	2-methoxy methyl ethyl octane		
	108-65-6			
	607-195-00-7	R10; R36	Xi	10÷25
4	215-535-7	Conformers mixture- Xylene, Dimethylbenzene		

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	1330-20-7		
	601-022-00-9	R10;R20/21;R38	Xn; Xi 10÷25
5	202-849-4	Ethylbenzene	
	100-41-4		
	601-23-00-4	R11; R20	F; Xn 2,5÷10
6	265-199-0	Kerosene solvent (oil), light aromatic hydrocarbons; low boiling naphtha – without specification	
	64742-96-6	H and P rates were applied. Do not contain benzene.	
	649-356-00-4	R10;R37;R51/53;R65; R66; R67	Xn; Xi; N <2.5

phrases- See paragraph 16

4. FIRST AID MEASURES

4.1 General precautions

If any alarming symptoms follow call the doctor immediately or take injured to hospital and show label on container, packing or SDS.

4.2 Inhalation

- provide access to fresh air and move injured to room with good ventilation
- position injured in a half-lying position, loose cloth, make sure if injured mouth are free from any objects or discharge making breathing difficult
- keep warm
- apply artificial breathing or give oxygen
- seek medical help

4.3 Contact with eyes

- rinse contaminated eyes with stream of water for 10-15 minutes and keep eyelids open, avoid high water pressure that may result in damage of cornea.
- do not apply any liquids for eyes rinsing and any ointment prior to consultation with a doctor.
- wear off contact lens if injured if applicable
- seek medical help

CAUTION: Persons who have contact with product shall be instructed on first aid measures and method of eyes rinsing.

4.4. Contact with skin

- immediately remove contaminated cloth
- do not use any solvents and thinners
- wash areas having contact or exposed to product with plenty of water with soap
- seek medial help

4.5 Swallowing

- rinse mouth with plenty of water
- give injured nothing to drink
- do not cause vomiting
- seek medical help

CAUTION: Position injured in side established position in quiet place, keep warm, check breathing and pulse. Do not cause vomiting and do not give anything to drink if injured is unconscious or intoxicated.

5. FIRE-FIGHTING MEASURES

5.1 Fire hazards

- product is a highly flammable liquid
- vapours with air form flammable and explosive mixtures
- vapours may soar from ignition source and come back as flames
- heating up, sparks or contact with fire may result in ignition
- during fire releases toxic gases

5.2 Suitable extinguishing media

- carbon dioxide (CO₂)
- extinguishing powder
- foams resistant to alcohol
- water- dissipated steam

- for carbonimides fire it is permitted to use extinguishing foam resistant to alcohol and water but only for large and spreading fire. Do not apply any water streams on product surface.

5.3 Not suitable extinguishing media

- water- strong stream

5.4 Special hazards

Caution: Prevent against water entering inside containers.

- cool containers exposed to fire or high temperature with water while maintaining safe distance and if possible remove from endangered zone.

- during combustion vapours may be formed containing dangerous chemical substances as oxide and carbon dioxide, nitric oxide, cyanides, hydrogen cyanide.

- explosion of container may follow in fire.

5.5 General precautions

- raise the alarm

- keep the fire zone restricted and prevent against access of people

- order evacuation if necessary

- do not inhale smoke

- remove and protect all ignition sources

- protect respiratory track

- cool with water containers exposed to fire

- protect drains and extinguishing media against contact with product

5.6 Dangerous combustion product

- carbon oxides

- nitric oxides

- cyanides, hydrogen cyanide

- smoke and toxic gases

5.7 Personal protection measures

- self-contained respiratory apparatus and protective cloth

6. ACCIDENTAL RELEASE MEASURES

Caution: Area endangered with fire – vapours of preparation form with air flammable and explosive mixtures.

Caution: Pollutants or humidity cause reaction of carbonimides and release of carbon dioxide that may result in increased pressure in container.

6.1 General precautions

- notify competent services in case of large amounts release

- keep zone restricted against access of third persons

6.2 Personal protection measures

- apply self-contained respiratory apparatus with a mask during removal of large amounts of product

- avoid inhalation during removal

- protect against contact with released product

- apply protective gloves and protective cloth

- apply well fitted and tight protective goggles or suitable protective mask

6.3 Detailed protection measures

- remove any ignition sources

- do not smoke

6.4 Protection measures regarding environmental protection

- remove leakage (lock outlet, provide sealing, place damaged packaging in substitute packaging)

- protect against pollution of groundwaters, protect sink basins

- protect product against entering into drains and drainage system

- Inform competent services if product entered into drainage or drains system or polluted soil and flora.


6.5 Removal methods

- wipe little amounts of product with a cloth or a paper, and place into a marked closed container

- if bigger amounts of product apply an inflammable absorbent (sand, infusorial earth, universal bonding material), clear away to a closed, marked container.

- form an embankment in case of large spill

- Protect against any ignition sources, do not smoke

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- collected absorbents pose a fire hazard
- ventilate rooms with product
- after clearing away wash spillage area

7. HANDLING AND STORAGE

Caution: *Area endangered with fire – vapours of preparation form with air flammable and explosive mixtures.*

Caution: *Pollutants or humidity cause reaction of carbonimides and release of carbon dioxide that may result in increased pressure in container.*

7.1 Handling

- Vapours may form with air flammable and explosive mixtures; while working with preparation provide good ventilation (room ventilation system and exhaust ventilation); prevent against forming of preparation concentration in air whose mixtures with air may be explosive and concentration exceeding hygiene limits.
- Protect against inhaling of product, direct contact of product with skin, eyes; apply adequate personal protection measures
- Protect against contact of product with hot surface or flames, do not apply in ignition vicinity, do not use sparking tools, do not smoke
- Do not warm up, do not cut, do not press containers containing preparation or its residue.
- Provide access to extinguishing media and equipment necessary to removal of leakage
- Follow industrial safety regulations regarding use of chemical substances; observe carefully procedures in respect of operation; during application of preparation apply approved and effective industrial safety regulations included in Labour and Social Policy Minister Order of 11 June 2002 (Book of Acts No. 91 of 2001 item 811); follow instructions provided by manufacturer of the product.
- Do not take meals, drink and smoke during operation with product except for sectioned off areas; wash hands before breaks and after work. If necessary apply a hand cream.
- Protect eyes, skin and cloth against contact with preparation
- Avoid long and repeated exposure
- Apply in ventilated rooms

7.2 Storage

- Store in cool, dry, rooms with adequate ventilation
- Store product in tight containers
- Storage temperature from 15⁰ to 25⁰ C
- Store prior opened containers in vertical position to prevent against any leakage
- Protect against direct sunlight, heat sources, store in places protected against ignition sources, smoking is forbidden.
- Do not store with foodstuffs
- Protect water against entering into container

7.3 Places of storage

- Dry, cool and with adequate ventilation

7.4 Packaging

- store product in original packaging
- store product in tight and marked containers
- protect packaging against mechanical damage

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Health hazards


Medical check-ups of employees and measurement of harmful factors according to effective regulations. According to Council of Ministers Order of 30 July 2002 on list of jobs forbidden for pregnant women (Book of Acts No. 127 of 2007, item 1192) any performance exposed to solvents is forbidden for feeding and pregnant women. On grounds of Council of Ministers Order of 30 July 2002 amending order on jobs forbidden to teenagers (Book of Acts No. 127 item 1091 of 2002), any performance exposure to contact with carbonimides and dicarbonimides is forbidden.

8.2 Precaution measures

- Store and apply in ventilated room

8.3 Personal protection measures

- wash carefully the whole body after work
- wash contaminated cloth and boots before next use

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8.4 Health hazard

According to Labour and Social Policy Minister Order of 29 November 2002 (Book of Acts No.217 item 1833) with amendment (Book of Acts No.212, item 1769 of 2005):

No.	CAS No.	Chemical substance name	The highest permitted concentration in mg/m ³ depending on exposure time during working shift		
			NDS	NDSch	NDSP
1	1330-20-7	Xylene	100	350	-
2	123-86-4	Butyl octane	200	950	-
3	108-65-6	2-methoxy methyl ethyl octane	260	520	-
4	100-41-4	Ethylbenzene	100	350	-

Naphtha solvent has not been included in a list.

Please find below the highest permitted concentration for petrol- an oil derivatives included:

Extraction naphtha: NDS: 500 mg/m³

NDSch: 1500 mg/m³ (marking of benzene in air applicable)

Mineral spirit: NDS: 300 mg/m³ NDSCh: 900 mg/m³

Kerosene: NDS: 100 mg/m³ NDSCh: 300 mg/m³

8.5 Recommended monitoring procedures


- PN-89/Z-01001/06 Air protection. Names, description and units. Terminology concerning air quality on a workstations.
- PN-89/Z-04008/07 Air protection. Samples taking. Rules regarding air samples taking in working environment and interpretation of results.
- PN-78/Z-04116 sheet 01 Air protection. Xylene content studies. Marking of Xylene on workstations with gas chromatography with sample enrichment.
- PN-78/Z-04023 sheet 2 Air protection. Content studies in dangerous mixtures released from low cellulose level varnished product. Marking of following alcohols: ethyl, n-butyl, etoxyethanol, isobutyl, butoxyethyl,; octanes: ethyl, n-butyl, etoxyethyl, toluene and xylene on workstations with gas chromatography with sample enrichment.
- PN-68/Z-04051 Marking of ethyl octane and butyl octane in air.
- PN-78/Z-04119 sheet 01 Air protection. Acetic acid content studies. Marking of octanes: methyl, ethyl, propyl, butyl and amyl on workstations with gas chromatography with sample enrichment.
- 2-methoxy methyl ethyl octane – marking method. Rudiments and Evaluation Methods of Work Environment. Warsaw. CIOP 2002. 4 (34).

- PN-79/Z-04081 sheet 1. Air protection. Ethylbenzen content studies. Marking of ethylbenzen on workstations with gas chromatography with sample enrichment.
- PN-81/Z-04134/01. Air protection. Oil content and its ingredients studies. Marking of extraction naphtha vapours, mineral spirits and kerosene on workstations with gravimetric method.
- PN-81/Z-04134/02. Air protection. Oil content and its ingredients studies. Marking of extraction naphtha vapours and benzene on workstations with gas chromatography with sample enrichment.
- PN-81/Z-04134/03. Air protection. Oil content and its ingredients studies. Marking of C mineral spirits on workstations with gas chromatography with sample enrichment.
- PN-92/Z-04227/02. Air protection. Kerosene content studies. Marking of kerosene vapours on workstations with gas chromatography.

8.6 Hygiene measures

Protect against direct contact of product with skin and eyes and inhalation of vapours and aerosols; apply preparation in rooms with operating ventilation, if required apply measures providing protection for respiratory track; remove suddenly contaminated cloth and wash skin with water with soap; do not take meals, do not drink and do not smoke during working with preparation except for sectioned off areas, wash carefully hands before breaks and after work with preparation, if necessary apply a hand cream.

If substance concentration is determined and known apply personal protection measures suitable for substance concentration at given workstation, exposure time, and operations performed by employee on grounds of catalogue "Individual Protection Measures" issued by Labour Protection Central Institute. In emergency if concentration of substance is unknown apply the highest class individual protection measures.

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8.7 Personal protection measures providing protection

Hands: protective gloves made from materials resistant to action and penetration of organic solvents
 Skin: overalls
 Respiratory track: provide proper ventilation, in case of short term exposure or low concentration apply protective equipment with multi gases absorbent, in case of long term exposure and high concentration apply protective goggles and mask protecting face.

CAUTION: Recommended protective measures subject to approval according to the Council of Ministers Order of 9 November 1999 on list of products manufactured in Poland, and products imported to Poland for the first time that may pose a risk or provide protection for life, health and environment and that subject to safety approval and labelling with safety mark, and products for which conformity certificates shall be issued.

Employer is obliged to provide proper individual protection measures and cloth and boots and provide due washing, maintenance, repairs and disinfection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state, appearance	liquid
Colour	colourless
Odour	characteristic
pH	not defined
Boiling point	126 ⁰ C
Melting point	not defined
Burning temp.	not defined
Flash point	28 ⁰ C
Ignition point	376 ⁰ C
Flammability	high flammable
Explosive properties	do not pose risk of explosion; product may form with air explosive mixtures
Explosion limits:	
Low:	1.5 % (Vol)
Upper:	8.3 % (Vol)
Oxidizing properties:	none
Vapour pressure:	6,4 mm Hg
Density:	0,993 g/cm ³ (at 20 ⁰ C)
Vapour density	not defined
Solubility:	
- in water	not mixed with
- in organic solvents	mixed with
- n-octanol/water partition coefficient	not marked
Viscosity	12s/4s
Solvents content:	
Aromatic solvents	21 %
LZO (EC):	611 g/dm ³

10 STABILITY AND REACTIVITY

10.1 Stability

- stable in normal operation and storage condition.

10.2 Conditions to avoid

- empty containers may contain explosive vapours
- high temperature
- ignition sources

10.3 Materials to avoid

- strong oxidants
- strong acids and bases
- carbonimides violently react, often release of heat if with alcohols, amines, phenols, amides, thioalcohols, carbamide carabamates, metal-organic compounds, surfactants; in humidity subject to polymerization with release of heat and carbon dioxide; corrosion action on zinc, copper, aluminium, and its alloys, destroy plastic and rubber.

10.4 Dangerous combustion products

- combustion may result in formation of toxic gases containing e.g. oxide and carbon dioxide, nitric oxides, hydrogen cyanide, cyanides; during combustion toluenediamines may be formed.
- carbon oxides
- nitric oxides
- hydrogen cyanide and cyanides
- toxic gases and smoke

11. TOXICOLOGICAL INFORMATION**11.1 Health hazard**

Product contains carbonimides. Read carefully manufacturer's Instructions.

- harmful
- harmful if contact with skin or respiratory track
- irritating
- irritating to eyes and skin
- may be sensitizing
- may cause allergy if contact with skin
- vapours may cause dizziness and vertigo

11.3 Dosages and toxic concentration

No data available for ready made product.

Please find below data for ingredients of product:

Xylenes:

Odour limits :	0.9÷9 mg/m ³
LD50 (rat, orally):	4300mg/kg
LC50(rat, orally):	22100 mg/m ³ /4 h

Butyl octane:

Odour limits :	2.90÷10 mg/m ³
LD50 (rat, orally):	14000mg/kg
LC50(rat, inhalation):	9660 mg/m ³ /4 h
LD50 (rabbit, skin)	> 5000 mg/kg
TCL0 (human, inhalation)	966 mg/m ³

2-methoxy methyl ethyl octane:

LC50(rat, inhalation):	8532 mg/kg
LD50 (rabbit, skin)	> 5000 mg/kg

Ethylobenzene:

Odour limits :	0.4÷2.6 mg/m ³
LD50 (rat, orally):	3500 mg/kg
LD50(rabbit, skin):	17800 mg/m ³
TCL0 (human, inhalation)	442 mg/m ³ /8h

Kerosene solvent:

LD50 (rat, orally):	6800 mg/kg
LD50(rat, inhalation):	10.2 mg/m ³ /4h
LD50 (rabbit, rat, skin):	3400 mg/kg

Below data for naphtha –oil derivatives has been provided:

Literature data for extraction naphtha:

LD50 (rat, stomach):	>3000 mg/kg
LD50(rat, skin):	>3000mg/kg
LD50 (rat, inhalation):	10200÷33000 mg/m ³ /4h

Dosages and toxic concentration for extraction naphtha (generally)

LC50 (mouse, inhalation):	40÷111.5 g/m ³ /2h
LC50(rat, inhalation):	105 g/m ³ /2h
LC50 (guinea pig, inhalation):	71÷91 mg/m ³ /2h

11.3 Lengthy exposure results for people

CAUTION: product contains carbonimides-vapours inhalation may cause asthma; symptoms of inhalation: cough, soar throat, twinge in chest, short breath, eyes redness, eyes watering; due to exposure bronchitis, pneumonia and /or pulmonary oedema may follow; asthma and pulmonary oedema may follow after some hours since exposure (asthma symptoms often follow in the night, pulmonary oedema may follow even after 48 hours), additionally physical effort intensify symptoms; besides inhalation of vapours concentration exceeding NDSC_h limits may cause headache, and narcotic symptoms if case of higher concentrations; due to action product ingredients other symptoms may follow; exposure to carbonimides may cause headache and impaired powers of concentration may follow for longer period of time (up to 4 years).

Results due to lengthy exposure:

- repetitive exposure of respiratory track may cause sensitization and asthma (most often sensitization follow after some months of work with carbonimides and early symptoms resemble cold)
- there are reports on lengthy pneumonia abnormalities for employees exposure to carbonimides
- skin contact may cause sensitization, and repetitive and often contact may result in degreasing and dermatitis
- drying, breaking, lengthy dermatitis
- irritation and lengthy ophthalmia
- upper respiratory track infection and soar throat
- nervous system disorder
- smell disorder

Caution: People prone to allergy shall take special precautions during operation with product; people who had asthma, lengthy respiratory system illnesses, allergic to carbonimides shall avoid contact with product.

Skin contact:

Repetitive exposure may cause drying and breaking of skin. Contact with skin may cause sensitization. People prone to allergy shall take special precautions. Skin irritation possible and in extreme case burning may follow (if prolonged continuous contact).

Eyes contact:

Vapours may cause digestive system mucous membrane irritation, stomach ache, nausea, vomiting, diarrhoea (burning of perineal area) and symptoms caused by substance systemic action.

12. ECOLOGICAL INFORMATION

12.1 Environmental hazards

- product has not been classified as environmentally dangerous
- protect against discharge to environment
- follow instructions or SDS

12.2 Ecotoxic performance

- high mobility in soil
- poor bioconcentration in aquatic organisms
- no significant inhibiting action for microorganisms

No data available for ready made product.

Butyl octane:

Threshold toxic concentration for:

- fish:

Salmo gairdneri LC0:	20 mg/dm ³
Pimephales promelas LC0:	18 mg/ dm ³ /96 h
Lepomis macrochirus LC0:	100 mg/ dm ³ /96 h

- crustacean:

Daphnia Magna LC0:	39 mg/ dm ³
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Lethal concentration for crustacean:

Daphnia Magna LC0:	205 mg/ dm ³
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Xsylene:

High toxicity for fish:

Pimephales promelas LC50:	16.1 mg/ dm ³ /96 h
Salmo gairdneri LC50:	8 mg/ dm ³ /96 h
Lepomis macrochirus LC50:	16.1 mg/ dm ³ /96 h
Carassius auratus LC50:	16.1 mg/ dm ³ /96 h

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High toxicity for crustacean:

Daphnia Magna EC50: 3.82 mg/ dm³/48h

Below data for naphtha –oil derivatives has been provided:

The highest permitted pollutants values in waste discharged into waters and soil according to Environmental Ministry Order of 29 November 2002 on conditions to meet regarding wastes discharge into waters or soil and on highly dangerous substances for aquatic environment (Book of Acts No.212 item 1799 from 2002)

- for oil derivatives substances: 15 mg/ dm³ /

Threshold toxic concentration for:

-fish Salmo gairdneri irideus i Alburnus bipunctatus: 40 mg/ dm³
 - plankton: Vorticella campunulla: 55 mg/ dm³
 Gammarus pulex: 70 mg/ dm³
 Tubifex tubifex: 120 mg/ dm³

Lethal concentration for fish:

Salmo gairdneri irideus: 100 mg/ dm³

Concentration that makes for fish taste change: 0.0005 mg/ dm³

Concentration that makes for water odour change: 0.06 ÷ 0.2 mg/ dm³

Concentration causing disorder of anaerobic sewage sludge fermentation:

> 400 mg/ dm³

No data available on preparation action in various ecosystems, bioconcentration, biodegradation and ecotoxicity. Protect against pollution of waters, groundwaters and soil with preparation. Follow strictly effective regulations. Prevent against preparation penetration into natural environment. Proper application of product does not pose environmental risk. . Protect against pollution of waters, groundwaters and soil with preparation. Do not discharge into drains. Do not clear away by discharge into drains and water courses.

13. DISPOSAL CONSIDERATION

13.1 Disposal

Handling with residues

Protect against pollution of waters, groundwaters and soil with preparation. Do not discharge into drains. Small amounts (from individual client) treat as household wastes.

Large amount shall not be disposed by discharge into drains. Dispose of product at an authorized incinerating plant and utilization plant according to effective regulations (See par. 15).

Handling with waste packaging

Packaging shall be utilized according to currently effective regulations.

Waste Code	Waste type
08 01 11*	Paint and varnish industry wastes containing organic solvents or other dangerous substances. Dangerous waste.
15 01 04	Metal packaging


Protect against produce entering into drains and water courses.

Dispose of empty containers (packaging) according to effective regulations.

14. TRANSPORT INFORMATION

14.1 Road and rail transport

ADR/RID Class	3
UN material ident. No.	1263
Classification No.	F1
Hazard Ident. No.	30
Label	No.3
Proper shipping name	1263 PAINT ADDITIVES

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15. REGULATORY INFORMATION

Classification and danger labeling of preparation has been provided according to Act on Preparations and Substances Chemical of 11 January 2001, on grounds of data provided by the manufacturer and on grounds of general knowledge on substances.

Packaging labeling

Product contains:

- Xsxylenes

Product contains carbonimides. Read carefully instructions provided by producer.

Warning signs:



Xn Dangerous product

R phrases:

- | | |
|--------|---|
| R10 | Flammable |
| R20/21 | harmful if skin contact and for respiratory track |
| R38 | Irritating to skin |
| R43 | Skin contact may cause sensitization |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R67 | Odours may cause drowsiness and vertigo. |

Safety phrases:

- | | |
|--------|---|
| S2 | Keep away from children |
| S23 | Do not inhale odour and sprayed liquid |
| S26 | Contaminated eyes wash with a lot of water and seek medical help. |
| S36/37 | Apply proper protective cloth and proper protective gloves |
| S46 | Call the doctor immediately in case of swallowing-show label on container |
| S51 | Apply only in rooms with adequate ventilation. |

Effective regulations:


- Decree of European Council no. 1907/2006 from 16.12.2006 regarding registering, evaluation, certification and authorizations in range of chemicals (REACH), creation of European Chemicals Agency, changing Directive 1999/45/EC and cancelling decree of Council no. 793/93 and decree of Commission no.1488/94, as well as directives 76/769/EC, 91/155/EC, 93/67/EC, 93/105/EC and 2000/21/EC (30.12.2006 PL Official Journal of European Union L 396/1)
- Act on Wastes of 27 April 2001 (Book of Acts No.62, item 628 of 2001)along with Environment Minister Order (Book of Acts No.152, item 1735-1737 of 2001).
- Act of 11 May 2001 on Packaging and Waste Packaging (Book of Acts No.63, item 638 of 2001) with later amendments.
- Declaration of the Speaker of the Sejm of the Polish Republic of 4 July 2006 on issuing an uniformed text of act –Environmental Protection Law (Book of Acts No. 129 item 902 of 2006).
- Act of 28 October 2002 on Shipping of Dangerous Goods (Book of Acts No.199 item 1671 of 2001) with later amendments.
- Health Minister Order of 30 April 2004 on Dangerous Substances and Preparation whose packaging shall be provided with locking protecting against use by children and with warning labels (Book of Acts No.128, item 1348 of 2004).
- Health Minister Order of 3 July 2002 on Dangerous Chemical Substances and Preparations Labelling (Book of Acts No. 173 item 1679 of 2003) with amendment of 29 October 2004 (Book of Acts No. 260 item 2595 of 2004).
- Health Minister Order of 3 July 2002 on Criteria and Classification of Dangerous Chemical Substances and Preparations (Book of Acts No. 171 item 1666 of 2003) with amendment of 29 October 2004 (Book of Acts No. 243 item 2440 of 2004).
- Health Minister Order of 3 July 2002 on Safety Data Sheet of Dangerous Substance and Preparation (Book of Acts No. 140, item 1171of 2002) along with Health Minister Order of 14 December 2004 amending order regarding Safety Data Sheet of Dangerous Substance and Preparation (Book of Acts No. 2, item 8 of 2005).
- Health Minister Order of 28 September 2005 on List of Dangerous Substances along with Classification and Labelling (Book of Acts No.201, item 1674 of 2005).

11. Labour and Social Policy Minister Order of 29 November 2002 on the Highest Permitted Concentrations and Volumes of Factors Harmful for Health in Labour Environment (Book of Acts No. 217 item 1833 of 2002) with later amendment (Book of Acts No. 212 item 1769 of 2005).
12. Official Government Statement of 26 July 2005 on entering in force amendments for A and B attachments of European Agreement in respect of international road shipping of dangerous Substances (ADR) drafted in Geneva on 30 September 1957 (Book of Acts No.178 item 1481 of 2005).
13. Environment Minister Order of 27 September 2001 on Wastes Catalogue (Book of Acts No.112 item 1206 of 2001).
14. Labour and Social Policy Minister Order of 11 June 2002 amending Order on Industrial Safety General Provisions (Book of Acts No.91 item 811 of 2002).
15. Economy Minister Order of 9 June 2006 on revision of order regarding minimal industrial safety requirements for employees employed on positions where explosion may follow (Book of Acts No.121 item 836 of 2006).
16. Council of Ministers Order of 30 July 2002 amending order on list of jobs forbidden to women (Book of Acts No. 127, item 1092 of 2006).
17. Health Minister Order of 20 April 2005 on tests and measurements of factor harmful for health in labour environment (Book of Acts No.73 item 645 of 2005).
18. Labour and Social Policy Minister Order of 30 May 1996 on medical check-ups of employees, scope of health care for employees and medical certificates for purposes provided with Labour Code (Book of Acts No.69, item 332 of 1996) with later amendments (Book of Acts No.37, item 451 and Book of Acts No.128 item 1405 of 2001).
19. Council of Ministers Order of 24 August 2004 on list of jobs forgotten to youngsters and conditions for employment at some jobs (Book of Acts No.200 item 2047 of 2004) with later amendments (Book of Acts No.136 item 1145 of 2005).
20. Health Minister Order of 14 August 2002 on obligation to submit Safety Data Sheet of some preparations not classified as dangerous (Book of Acts No.142, item 1194 from 2002).
21. Economy and Labour Minister Order of 5 July 2004 on limitations, bans, conditions for manufacture, turnover and application of dangerous substances and preparations and products containing these substances (Book of Acts No.168 item 1762 of 2004) with later amendments (Book of Acts No.39, item 372 of 2005 and No.127 item 887 of 2006).
22. Health Minister Order of 17 January 2003 on information on dangerous preparations that do not require provision of Safety Data Sheet (Book of Acts No.19 item 170 of 2003).
23. Health Minister Order of 1 December on substances, preparations, factors or technological processes of carcinogenic or mutagenic properties in labour environment (Book of Acts No.280, item 2771 of 2004) with later amendments (Book of Acts No.160 item 1356 of 2005).
24. Act of 29 July 2005 on drug addiction countering (Book of Acts No.179 item 1485 of 2005) with amendment (Book of Acts No.120 item 826 of 2006) and Order (EC) No. 273/2004 of the European Parliament and Council of 11 February 2004 on drugs precursors (Official Journal of EU L 047 of 18.02.2005) and Order (EU) and Council No. 111/2005 of 22 December 2004 determining rules for trade of drugs precursors between European Union and the third countries (Official Journal of EU L 22 of 26.01.2005, page 1; Official Journal of EU Polish special edition of 2005, volume 45 page 1).

16. OTHER INFORMATION

R phrases listed in par. 2:

X	Highly flammable
Xn	Harmful
Xi	Irritating
N	Environmentally dangerous
R10	Flammable
R11	Highly flammable
R20/21	harmful if skin contact and for respiratory track
R36	Irritating to eyes
R37	Irritating to respiratory track
R3	Irritating to skin
R43	Skin contact may cause sensitization
R51/53	Toxic for aquatic organisms; may cause long lasting adverse changes in aquatic environment

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R65 Harmful; swallowing may cause pulmonary oedema
R66 Repeated exposure may cause drying and breaking of skin
R67 Odours may cause drowsiness and vertigo.

Medical check-ups and measurement of harmful factors shall be carried out according to effective regulations.

This SDS has been made up on grounds of data from Data Sheet provided by the manufacturer. The above information provides actual knowledge but it in does not grant any guarantee in respect of product properties and quality and may not be used for complaint.

The product shall be shipped, storage and applied according to effective regulation, industrial safety regulations and good practice.

The manufacturer bears no responsibility for any direct and indirect consequences in respect of following the above instructions and manual or failure to apply them.

Provided information shall not apply for product mixed with other substances. Application of product and following of the above information do not subject to control of the manufacturer, and the user shall provide safe conditions for handling with product.

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