	<b>DANGEROUS AGENT CHARACTERISTICS CARD</b>	
	Preparation date : 2008-01-14	<b>APP-2K Acryl normal</b>

Issue: II

Last revision: 10 Dec. 2007.

### Material Safety Data Sheet

[grounds: Regulation (EC) № 1907/2006 of the European Parliament and of the Council, of 18 December 2006, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)]

## **1. Identification of Substance/Product. Identification of Producer, Importer, Distributor**

### **1.1 Product Identification**

**Commercial name:** APP-2K Acryl normal Nr APP: 030100; 030120; 030130; 030140.

**Other names:** Thinner applicable in the production of acrylic goods and metallic automotive lacquer base stocks.

**Chemical formula:** mixture

**1.2 Application:** Thinner applicable in the production of acrylic goods and metallic automotive lacquer base stocks.

### **1.3 Identification of Distributor**

**Distributor:** AUTO – PLAST PRODUKT Sp. z o. o.  
 Ul. Przemysłowa 10, 62 – 300 Września  
 Phone +48 (061) 437 00 00  
 Fax. +48 (061) 437 91 37  
 Mail: [app@app.com.pl](mailto:app@app.com.pl)  
 WWW site: [www.app.com.pl](http://www.app.com.pl)

**Emergency phone:** Phone +48 (061) 437 00 00  
 Current safety data and technical information are available on www site.

## **2. Hazard Identification**

This product has been classified as hazardous according to currently effective regulations.

### **Health Hazards:**

The product is harmful by inhalation and in contact with skin; it is irritating to skin.

### **Hazardous Properties:**

The product is highly flammable. It may form explosive vapour air-mixtures. The vapours are heavier than air and they may accumulate and/or travel along the ground; distant ignition and flashback is possible.

### **Environmental Hazards:**

Unknown.

## **3. Composition / Information on Ingredients**

### **Hazardous components:**

> 50 % Xylene (mixed isomers) (R10; Xn, R20/21; Xi, R38; CAS №: 1330-20-7; EC №: 215-535-7)


< 30 % *n*-Butyl acetate (R10, R66, R67; CAS №: 123-86-4; EC №: 204-658-1)

< 10 % 1-Metoxypropane-2-ol (R10; CAS №: 107-98-2; EC №: 203-539-1)

## **4. First Aid Measures**

### **Inhalation:**

After exposure by inhalation, remove the affected person to fresh air. Keep warm and at rest. Perform artificial respiration in case of need. Provide medical attention.

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**Skin Contact:**

In case of contact with skin/clothing, remove the contaminated clothing and wash the affected skin with plenty of water and soap. In case of skin irritation symptoms, consult a skin specialist.

**Eye Contact:**

In case of eye contact, immediately flush with running water for at least 15 minutes. Avoid strong water jets because of the risk of mechanical corneal damage.

**Ingestion:**

After incidental ingestion, rinse mouth with water, and do not induce vomiting. Do not give anything orally to an unconscious person. Provide medical attention.

**5. Fire Fighting Measures****Special Hazards:**

Incomplete combustion may yield carbon monoxide. The product may form explosive vapour air-mixtures. The vapours are heavier than air and they may accumulate and/or travel along the ground; distant ignition and flashback is possible. Vapours must not contact any sources of ignition.

**Extinguishing Media:**

Dry chemical powders, carbon dioxide, foams resistant to alcohols, water spray. Never use compact water jets.

**Further Information:**

Cool containers exposed to flames or high temperatures with water spray (internal pressure may increase strongly, resulting in explosion of container) and remove container(s) if no risk is involved. Do not let contaminated fire water enter ground water and/or water courses. Dike/collect it for later disposal in accordance with the effective regulations.

**Protection for Fire-fighters:**

Self-contained breathing apparatus and full protective suit should be used.

**6. Accidental Release Measures****Personal Protection:**

- protective gloves,
- safety goggles,
- protective clothing should not accumulate static charges.

**Clean-up Procedures:**

Prevent spreading and/or penetration to sewers, ditches and rivers.

Remove sources of ignition (keep open flame devices away, do not smoke, do not use sparking tools). Dilute vapours with water spray. Protect sewer inlets. Avoid any direct contact with the escaping liquid. Stop the leak if possible (close the discharge valve, seal the leaking container, place the leaking container in another protective container, etc.). For big spills, contain the spilled product and pump it for recovery. For small spills, absorb the spilled product in a non-flammable sorption material, and collect to a sealable container. Flush the contaminated area with water.

**7. Handling and Storage****Storage:**

Store in tightly closed containers, in a store room intended for flammable liquids and well ventilated. Both the ventilation system and electrical system must be explosion-proof. Keep away from sources of heat and sparking tools.

**Handling:**

Do not smoke and keep open flame devices away. Prevent accumulation of static charges. Keep respiratory protection equipment handy. Provide sufficient ventilation for indoor locations.

## 8. Exposure Controls / Personal Protection

The adopted personal protection measures should satisfy the requirements specified in the Regulation of the Minister of Economy, of 21 December 2005, on basic requirements for personal protection controls (Journal of Laws № 259, item 2173).

### Respiratory Protection:

When ventilation is insufficient, use respirators with multi-gas canisters. In case of prolonged exposure and/or high concentrations, use self-contained breathing apparatus.

### Eye Protection:

Safety goggles or face mask.

### Hand Protection:

Protective gloves resistant to organic solvents.

### Engineering Controls:

Local and/or general exhaust ventilation. Electrical wiring/system must be explosion-proof.

### Other Personal Protection Measures:

Protective clothing.

### Exposure Limits and Control:

For xylene, mixed isomers:

PEL = 100 mg/m<sup>3</sup> STEL = not established

For *n*-butyl acetate:

PEL = 200 mg/m<sup>3</sup> STEL = 950 mg/m<sup>3</sup>

For 1-metoxypropane-2-ol:

PEL = 180 mg/m<sup>3</sup> STEL = 360 mg/m<sup>3</sup>

(pursuant to the Regulation of the Minister of Labour and Social Policy, of 29 November 2002, Journal of Laws № 217, item 1833, with further amendments).

Recommendations for monitoring procedures, contents of airborne hazardous components – methods of measurements:

- Regulation of the Minister of Health, of 20 April 2005, on test and measurements applicable for substances and other factors which are harmful in work places (Journal of Laws № 73, item 645).
- PN-89/Z-01001.06: Air purity protection. Terminology and units. Terminology relating to air quality testing in work places.
- PN-Z-04008-7:2002: Air purity protection. Sampling. Principles of air sampling in work environment and interpretation of results.
- PN-EN 689:2002: Workplace atmosphere. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.

**Note:** When the concentration of a substance has been determined and it is known, the specific personal protection items should be selected after due consideration of the concentration present in the work place, time of exposure, and work to be done by the worker(s). In emergency situations, when the workplace concentration of a substance is not known, use the personal protection controls capable of providing the highest class of performance.

The employer is obliged to see if the means of personal protection, working clothing and boots, provide the adequate protective and functional performance, and he is responsible for washing, maintenance, repair and disinfection of those items.

The entry medical examinations and subsequent routine examinations of the employees should follow the recommendations provided for in the Regulation of the Minister of Health and Public Assistance, of 30 May 1996, on medical examinations of employees, on scope for preventive health care available to employees, and on medical certificates to be issued for the purposes stipulated in the Labour Code (Journal of Laws № 69/1996, item 332, with amendments as per Journal of Laws № 37/2001, item 451).

- PN-78/Z-04116.01: Air purity protection. Tests for xylene. Determination of xylene in work places by gas chromatography with sample enrichment.
- PN-78/Z-04119.01: Air purity protection. Tests for acetic acid esters. Determination of methyl, ethyl, propyl, butyl and amyl acetates in work places by gas chromatography with sample enrichment.

– PN-68/Z-04051: Determination of ethyl acetate and butyl acetate vapours in air.

Basis and Methods for Evaluation of Workplace Environment, 2001, Booklet 4(30) – “1-Metoxypropane-2-ol – determination method”.

## 9. Physical and Chemical Properties

**General:** Clear and colourless liquid.

Flash point [ C] <b>28 ± 1</b>	Auto-ignition point [ C] <b>510</b>	Upper explosive limit [vol. %] <b>12.0</b>	Lower explosive limit [vol. %] <b>2.3</b>
Density at 20 C [kg/m <sup>3</sup> ] <b>867</b>	Molecular weight <b>mixture</b>	Appearance at 20 C <b>liquid</b>	
Boiling point [ C] <b>no data available</b>	Melting point [ C] <b>no data available</b>	Viscosity at 20 C [mPa·s] <b>no data available</b>	
Solubility in solvents <b>most organic solvents</b>	Water solubility <b>slight</b>	Vapour density (air = 1) <b>no data available</b>	
<i>n</i> -Octanol–water partition coefficient <b>no data available</b>	Refractive index <b>1.464</b>	pH <b>no data available</b>	

## 10. Stability and Reactivity

### Stability:

The product is stable under normal conditions.

### Conditions and materials to avoid:

Strong oxidisers, high temperatures, sources of ignition.

### Hazardous decomposition products:

Carbon dioxide and carbon monoxide.

## 11. Toxicological Information

Toxicity for components:

– xylene:

acute toxicity, oral 4300 mg/kg (rat)  
acute toxicity, inhalation 22100 mg/m<sup>3</sup> (rat)

– *n*-butyl acetate:

acute toxicity, oral LD<sub>50</sub> – 14000 mg/kg (rat)  
acute toxicity, inhalation LD<sub>50</sub> – 9660 mg/m<sup>3</sup>/8 h (rat)  
acute toxicity, skin LD<sub>50</sub> > 5000 mg/kg

– 1-metoxypropane-2-ol:

acute toxicity, oral LD<sub>50</sub> – 6000 mg/kg (rat)  
acute toxicity, skin LD<sub>50</sub> > 11000 mg/kg (rabbit)

The product has been classified as harmful by inhalation and in contact with skin.

It is irritating to skin.

## 12. Ecological Information

Prevent the product from entering sewage systems and/or groundwater.

Data for components:

- *n*-butyl acetate:
  - acute toxicity to fish LC<sub>50</sub> – 141 mg/l
  - acute toxicity to crustaceans EC<sub>50</sub> – 24 mg/l/24 h (*Daphnia magna*)
- xylene:
  - acute toxicity to fish LC<sub>50</sub> – 3.77 mg/l/96 h (*Salmo gairdneri*)
  - acute toxicity to algae LC<sub>50</sub> – 10±100 mg/l/96 h
  - acute toxicity to crustaceans EC<sub>50</sub> – 7.4 mg/l/48 h (*Daphnia magna*)
  - acute toxicity to bacteria EC<sub>50</sub> > 100 mg/l
- 1-metoxyp propane-2-ol:
  - acute toxicity to fish 20800 mg/l
  - acute toxicity to crustaceans 23300 mg/l (*Daphnia magna*)

## 13. Disposal Considerations

Provisions of the following rules should be observed:

Law on Wastes, of 27 April 2001 (Journal of Laws № 62, item 628), with further amendments.

Law of 11 May 2001, on packages and spent packages (Journal of Laws № 63, item 638), with further amendments.

Regulation of the Minister of Environment, of 27 September 2001, on the directory of wastes (Journal of Laws № 112/2001, item 1206).

**Waste code:**

**07 01 04 \* Other organic solvents, washing liquids and mother liquors**

Do not store together with municipal refuse. Prevent from entering sewage systems. Product wastes should be destroyed by incineration in special combustion facilities which comply with the applicable waste utilisation regulations.

## 14. Transport Information

**Proper shipping name:** APP-2K Acryl normal  
**ADR/RID classification:** class 3, classification code F1  
**Packing group:** III  
**UN number:** 1993, liquid and flammable material, i.n.o.  
**Hazard identification number:** 30  
**Warning label:** 3



**Packing instruction:** P001 IBC03 LP01 R001  
**Joint packing:** MP 19  
**Other information:** –

## 15. Regulatory Information

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)

Regulation of the Minister of Health, of 2 September 2003, on criteria and classification method applicable to chemical substances and formulations (Journal of Laws № 171, item 1666) with further amendments (Journal of Laws № 243/2004, item 2440).

Law of 29 July 2005, on prevention of drug addiction (Journal of Laws № 179, item 1485).

Regulation (EC) № 273/2004 of the European Parliament and of the Council, of 11 February 2004, on drug precursors.

Commission Regulation (EC) № 111/2005, of 22 December 2004, laying down rules for the monitoring of trade between the Community and third countries in drug precursors.

Regulation of the Minister of Health, of 28 September 2005, on the list of hazardous substances, inclusive of their classification and requirements for marking (Journal of Laws № 201, item 1674).

Regulation of the Minister of Health, of 12 January 2005, on the method applicable when evaluating the risk for human life and environment, created by new substances (Journal of Laws № 16, item 138).

Regulation of the Minister of Environment, of 27 September 2001, on the directory of wastes (Journal of Laws № 112, item 1206).

Regulation of the Minister of Economy and Labour, of 5 July 2004, on limitations, bans and conditions for the production, turnover and use of hazardous substances and formulations, and products containing them (Journal of Laws № 168/2004, item 1762), with further amendments.

Law of 13 September 2002, on biocidal products (Journal of Laws № 175/2002, item 1433), with further amendments.

Regulation (EC) № 648/2004 of the European Parliament and of the Council, of 31 March 2004, on detergents.

Regulation (EC) № 1907/2006, of the European Parliament and of the Council, of 18 December 2006, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

It contains: xylene

Marking on packages (shipments) as per Regulation of the Minister of Health, of 2 September 2003, on marking required for packages, which contain hazardous substances and hazardous formulations (Journal of Laws № 173, item 1679), with further amendments (Journal of Laws № 260/2004, item 2595).

R 10 – Flammable.

R 38 – Irritating to skin.

R 20/21 – Harmful by inhalation and in contact with skin.

R66 - Repeated exposition may cause skin drying or cracking

R67 - Vapours may cause drowsiness and dizziness

S2 - Keep away from children

S25 - Protect eyes

S35 - Recycle the product and its package by a safe method

S 36/37 – Wear suitable protective clothing and gloves.

S46 – If swallowed, seek medical advice immediately and show this container or label.

S51 - Apply only in rooms with adequate ventilation.

Xn




Harmful substance

## 16. Other Information

The above information has been compiled on the basis of the current knowledge and it is applicable to the product in the form in which it is normally used. The figures and other properties have been presented for the product to illustrate the safety requirements only and they DO NOT form any product quality specification. When the producer cannot control the conditions of use, the user assumes full responsibility for safe application of that product.

The employer is obliged to instruct all his employees in contact with this product on hazards and personal protection as specified in this MSDS.

This MSDS has been developed on the basis of the MSDS document provided by the producer and/or the information and data available in the Internet, and on the basis of effective codes applicable to hazardous substances and formulations.

 <b>APP</b> <b>AUTO-PLAST PRODUKT</b>	<b>DANGEROUS AGENT CHARACTERISTICS CARD</b>	
	Preparation date : 2008-01-14	<b>APP-2K Acryl normal</b>

**List of R phrases:**

- R 38 – Irritating to skin.
- R 66 – Repeated exposure may cause skin dryness or cracking.
- R 67 – Vapours may cause drowsiness and dizziness.
- R 10 – Flammable.
- R 20/21 – Harmful by inhalation and in contact with skin.

**Modifications in relation to previous version:**

Not applicable.

**Training:**

Those involved in handling, marketing, transport, etc., of any hazardous substance (or product) should be instructed on applicable procedures and on occupational health and safety rules. The truck drivers should be given adequate training and they should obtain certificates as required by ADR.