Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Code:	3000.301
Product name	P.U. 301 SEALER

1.2 Use of the substance / preparation

Intended use	SEALER VARNISH

1.3 Company identification

Name	DGK-PELLACHROM
Full address	RIZARI EDESSA
District and Country	58200 EDESSA (GR) GREECE Tel. +30 23810 26868 Fax +30 23810 27707
e-mail address of the competent person responsible for the Safety Data Sheet	info@pellachrom.gr

1.4 Emergency telephone

For urgent inquiries refer to	+30 23810 26868

2. Hazards Identification

2.1 Substance/Preparation Classification
This preparate is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this preparate requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols:	T
Phrases R:	10-21-23-38-42/43-52/53

2.2 Danger Identification
Because of its chemical-physical features, this product is graded as flammable (flash-point 21 °C or higher and 55 °C or lower).
HARMFUL IN CONTACT WITH SKIN.
TOXIC BY INHALATION.
IRRITATING TO SKIN.
MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
This product contains isocyanates.

Producer's specifications are as follows:
Ready-to-use products containing isocyanates may irritate mucosas, particularly those of the respiratory system, and may give rise to hypersensitivity reactions. Vapour or aerosol inhalation may lead to sensitization.
Please take all the measures used for all solvent-containing products while manipulating isocyanate-containing products. Avoid vapour and aerosol inhalation.
People with allergic or asthmatic precedents or subject to respiratory disorders should not handle products containing isocyanates.

3. Composition / Information on ingredients

Contains:

Name	Concentration C	Classification	
XYLENE	50 <= C < 70		R10
Cas No 1330-20-7		Xn	R20/21
CE No 215-535-7		Xi	R38
Index No 601-022-00-9			Note C
ISOPHORONE DI-ISOCYANATE	14 <= C < 19	T	R23
Cas No 4098-71-9		Xn	R42/43
CE No 223-861-6		Xi	R36/37/38
Index No 615-008-00-5		N	R51/53
			Note 2

The complete text of -R- phrases is specified in section 16.

4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes.
Seek medical advice.
SKIN: Immediately wash with plenty of water. Remove all contaminated clothing. Obtain immediate medical attention. Wash contaminated clothing separately before using them again.
INHALATION: Remove to open air. If breathing is irregular or stopped, administer artificial respiration. Obtain immediate medical attention.
INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Give nothing by mouth to an unconscious person.

5. Fire-fighting measures

Closed containers exposed to the heat of a fire may lead to pressure rise and explode. For information on environmental and health risks, protection of the respiratory airways, ventilation and individual protective measures, refer to the other sections of this sheet.
Extinguishing measures: CO2, foam, chemical powder for flammable liquids. Water may not be effective to extinguish the fire, nevertheless it should be used to cool the containers exposed to flames and prevent fires and explosions. For leakage and spillage that have not caught fire, nebulized water may be used to disperse the flammable vapours and protect the people involved in stopping the leakage.
Equipment: wear equipment complete with helmet and face shield and protection of the neck, selfbreathing apparatus at pressure or demand, insulative jacket and trousers, with bands around the arms, legs and waist.

6. Accidental release measures

Exclude sources of ignition. Cover with inert absorbent material. Collect spillages by means of sparkproof equipment. Use water only to remove residuals, so as not to run the risk of entering the sewer.
Do not let the product dry. Contaminated clothes must be left to soak in water before washing. In order to choose safety measures and protection equipment, please see the other sections of this sheet.
Spillage in waters: remove the liquid from the surface with flameproof pumps or manual pumps or suitable absorbent material. Resort to sinking and/or dispersion of the product with suitable substances in open waters, if permitted by the law.

7. Handling and storage

Avoid the accumulation of electrostatic charges. Store the containers sealed and in a well ventilated place. Vapours may ignite with explosion, it is therefore necessary to avoid accumulation keeping the windows and doors open, ensuring crossventilation.
Without adequate ventilation, the vapours may accumulate at the bottom and ignite at a distance, if triggered off, with the risk of flashback. Keep far away from sources of heat, sparks and naked flames. Do not smoke, use matches or lighters. Keept the containers earthed while decanting and wear antistatic boots.
Vigorous stirring and flow through the pipings and equipment may cause the formation and accumulation of electrostatic charges due to the low conductivity of the product. In order to avoid the risk of fire outbreak and explosion never use compressed air during movement.

8. Exposure control / personal protection.

8.1 Exposure limit values

Name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
XYLENE							
	TLV-ACGIH		434		651		Skin
	OEL	EU	221				Skin
	OEL	IRL		50		100	Skin
	WEL	UK		50		100	Skin
ISOPHORONE DI-ISOCYANATE							
	TLV-ACGIH		0,045				Skin
	OEL	IRL	0,02		0,07		Skin
	WEL	UK	0,02		0,07		Skin

C = CEILING

TLV of solvent mixture: 00,26 mg/m3

8.2 Exposure controls

Adopt the closed circuit, if possible. If lacking, in order to avoid exposure and prevent its possible effects, even longterm, it is necessary to use adequate individual protective measures, such as: mask, safety goggles, impermeable gloves and overall, resistant to the product.

Ensure that all the operators follow the recommended precautions. Attach a copy to the containers in which the product may be transferred and do not use the product if the working conditions do not correspond to the recommended precautions; avoid contact with the eyes and skin and prolonged breathing of the vapours; store the container sealed when not being used.
Do not eat, drink or smoke while handling the product. Accurately wash the hands with soap and water before meals and take a shower at the end of the work shift. Working clothes should be washed separately and stored in a separate place.
In order to prevent longterm effects, periodic health controls should be carried out even if not established by the Law, including supplementary examinations which are deemed necessary according to the discretion of the occupational physician.

9. Physical and chemical properties

Colour	COLORLESS
Odour	CHARACTERISTIC
Appearance	LIQUID
Viscosity	N.A.
Vapour density	N.A.
Evaporation Rate	N.A.
Reactive Properties	N.A.
Partition coefficient: n-octanol/water	N.A.
pH	N.A.
Boiling point	N.A.
Flash point	>21°C
Explosive properties	N.A.
Vapour pressure	N.A.
Specific gravity	0,930Kg/l
Solid content:	13,30 %
VOC (Directive 2004/42/EC) :	69,00 % - 641,70g/litre of preparation
VOC (volatile carbon) :	62,39 % - 580,23g/litre of preparation

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbonoxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

The xylene present is stable but may give violent reactions if placed in contact with strong oxidants such as nitric acid, sulfuric acid, perchlorates and similar agents. It is biodegradable in water and decomposes in the sunlight (photodegradable).

11. Toxicological information

Acute effects: this product is toxic and causes poisoning by inhalation. Cutaneous absorption and ingestion may be harmful. Poisoning by inhalation may give rise to a series of symptoms, which may include: stinging and irritared eyes, mouth, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness. In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema , chemical pneumonia and pulmonary edema, reduction or increase of heart-beat, copious salivation, blood sputum, loss of consciousness, behavioral disorders (depression or euphoria). This product may irritate eyes and skin. Ingestion of even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).
Inhalation of this product causes sensitization, which may give rise to a series of inflammatory episodes, most of all characterized by obstruction and affecting the respiratory system. Sometimes, sensitization phenomena arise

together with evident rhinitis and asthma. Damages to the respiratory system depend on the inhaled quantity, on the product concentration in the working environment and on the exposure time. Contact with skin causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vescicles, pustules, scurves, ulcerations and exudative phenomena, whose intensity varies according to the illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

Xylene: has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it may even have negative effects on the aquatic environment.

13. Disposal consideration

Consider the possibility of burning the product in a suitable incenerator.
Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information

NOTHING TO NOTIFY

15. Regulatory information

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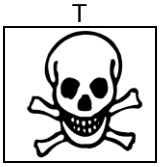

TOXIC

R10	FLAMMABLE.
R21	HARMFUL IN CONTACT WITH SKIN.
R23	TOXIC BY INHALATION.
R38	IRRITATING TO SKIN.
R42/43	MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
R52/53	HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S23	DO NOT BREATHE GAS/FUMES/VAPOUR/SPRAY (APPROPRIATE WORDING TO BE SPECIFIED BY THE MANUFACTURER).
S36/37	WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
S45	IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE).
S63	IN CASE OF ACCIDENT BY INHALATION: REMOVE CASUALTY TO FRESH AIR AND KEEP AT REST.

Contains isocyanates. See information supplied by the manufacturer.

Contains:
XYLENE
ISOPHORONE DI-ISOCYANATE

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must undergo health checks according to regulation 98/24/EC.

VOC (Directive 2004/42/EC) :
Interior and exterior minimal build woodstain.
VOC given in g/litre of product in a ready-to-use condition :
Limit value: 700,00 (2007) - 700,00 (2010)
VOC of product : 641,70

16. Other information

Text of -R- phrases quoted in section 3 of the sheet.

R10	FLAMMABLE.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R23	TOXIC BY INHALATION.
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R38	IRRITATING TO SKIN.
R42/43	MAY CAUSE SENSITIZATION BY INHALATION AND SKIN CONTACT.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

GENERAL BIBLIOGRAPHY
1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
4. The Merck Index. - 10th Edition;
5. Handling Chemical Safety;
6. Niosh - Registry of Toxic Effects of Chemical Substances;
7. INRS - Fiche Toxicologique (toxicological sheet);
8. Patty - Industrial Hygiene and Toxicology;
9. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review
The following sections were modified:
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