

Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Code: 9M5362
Product name: PLDL

1.2 Use of the substance / preparation

1.3 Company identification

Name: COMEC ITALIA SRL
Full address: PIAZZALE DEL LAVORO 149
District and Country: 21044 CAVARIA (VA)
Italia
Tel. 0331 219516

e-mail address of the competent person responsible for the Safety Data Sheet

1.4 Emergency telephone

For urgent inquiries refer to 0331 219516

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: F-Xn
Phrases R: 11-20/21/22-36/38-48/20-63-65-66-68/20/21/22

2.2 Danger Identification

Because of its chemical-physical features, this product is graded as highly flammable (flash-point below 21 °C).
HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
IRRITATING TO EYES AND SKIN.
HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.
POSSIBLE RISK OF HARM TO THE UNBORN CHILD.
HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
HARMFUL: POSSIBLE RISK OF IRREVERSIBLE EFFECTS THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

PLDL

3. Composition / Information on ingredients

Contains:

Name	Concentration C	Classification
TOLUENE	54 <= C < 58	R 67 F R 11 Xn R 48/20 Xn R 63 Repr. Cat. 3 Xn R 65 Xi R 38 Note 4
Cas No 108-88-3 CE No 203-625-9 Index No 601-021-00-3		
METHANOL	8 <= C < 9	F R 11 T R 23/24/25 T R 39/23/24/25
Cas No 67-56-1 CE No 200-659-6 Index No 603-001-00-X		
2-BUTOXYETHANOL	3 <= C < 3,5	Xn R 20/21/22 Xi R 36/38
Cas No 111-76-2 CE No 203-905-0 Index No 603-014-00-0		
ACETONE	2 <= C < 2,5	R 66 R 67 F R 11 Xi R 36
Cas No 67-64-1 CE No 200-662-2 Index No 606-001-00-8		
METHYL ACETATE	30 <= C < 55	R 66 R 67 F R 11 Xi R 36
Cas No 79-20-9 CE No 201-185-2 Index No 607-021-00-X		

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. Keep 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	
TOLUENE	TLV-ACGIH		188				Skin
	OEL	EU	192	50	384	100	Skin
	OEL	IRL		50		150	Skin
	WEL	UK		50		150	Skin
METHANOL	TLV-ACGIH		262		328		Skin
	OEL	EU	260	200			Skin
	OEL	IRL		200		250	Skin
	WEL	UK		200		250	Skin
2-BUTOXYETHANOL	TLV-ACGIH		97				Skin
	OEL	EU	98				Skin
	OEL	IRL		20		50	Skin
	WEL	UK		25		50	Skin
ACETONE	TLV-ACGIH		1188		1782		
	OEL	EU	1210				
	OEL	IRL		500			
	WEL	UK		500		1500	
METHYL ACETATE	TLV-ACGIH		606		757		
	WEL	UK		200		250	

TLV of solvent mixture: 245 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	Colourless
Odour	Characteristic
Appearance	liquid
	Almost soluble
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	65,26
Molecular weight	81,653
Specific gravity	0,890-0,930 g/cc a 20°C
VOC (Directive 1999/13/EC) :	100,00 % - 881,37 g/litre of preparation
VOC (volatile carbon) :	71,76 % - 632,43 g/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.

Toluene is biodegradable in water and degrades when exposed to sunlight. Toluene reacts with sulfuric acid with the development of heat.

2-Butoxyethanol may form explosive peroxides; it reacts with light metals, such as aluminium (ref. H.C.S.).

Acetone reacts violently with chloroform in basic ambient with the risk of fires and explosions (ref. Handling chemicals safely).

11. Toxicological information

Acute effects: inhalation, cutaneous absorption and ingestion of this product are harmful. This product may irritate mucosas, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, 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 and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness. Ingestion of even small amounts of this product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure by inhalation of a quantity of 0.25 mg/l/6h/day or lower.

This product must be handled carefully because of its possible teratogenic effects, which may be toxic and damage the foetus development.

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

This product may cause irreversible, non-lethal damages after a single exposure by inhalation, cutaneous absorption and ingestion.

Toluene: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating

to the skin, conjunctivae, cornea and respiratory apparatus.

METHANOL: oral LD50 (mg/kg) 5300 (RAT) ; dermal LD50 (mg/kg) 15800 (RABBIT) ; inhalation LC50 (rat) 83,2 mg/l/4h
2-BUTOXYETHANOL: oral LD50 (mg/kg) 470 (RAT) ; dermal LD50 (mg/kg) 220 (RABBIT) ; inhalation LC50 (rat) 2,21 mg/l/4h

12. Ecological information

Use this product according to good working practices. Avoid litter. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

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

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

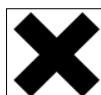
ADR/RID:	3	UN: 1263
Packing Group:	II	
Label:	3	
Nr. Kemler:	33	
Proper Shipping Name:	Paint or paint related material	
Special Provision:	640D	

Carriage by sea (shipping):

IMO class:	3	UN: 1263
Packing Group:	II	
Label:	3	
EMS:	F-E, <u>S-E</u>	
Proper Shipping Name:	Paint or paint related material	

15. Regulatory information

Xn



HARMFUL

F



HIGHLY FLAMMABLE

- | | |
|-------------|---------------------------------------------------------------|
| - R11 | HIGHLY FLAMMABLE. |
| - R20/21/22 | HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. |
| - R36/38 | IRRITATING TO EYES AND SKIN. |

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|----------------|-----------------------------------------------------------------------------------------------------------|
| - R48/20 | HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION. |
| - R63 | POSSIBLE RISK OF HARM TO THE UNBORN CHILD. |
| - R65 | HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED. |
| - R66 | REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. |
| - R68/20/21/22 | HARMFUL: POSSIBLE RISK OF IRREVERSIBLE EFFECTS THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. |
| | |
| - S 9 | KEEP CONTAINER IN A WELL-VENTILATED PLACE. |
| - S13 | KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS. |
| - S16 | KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. |
| - S36/37 | WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. |
| - S62 | IF SWALLOWED, DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL. |

Contains:
TOLUENE
METHANOL

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.

16. Other information

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

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| R 11 | HIGHLY FLAMMABLE. |
| R 20/21/22 | HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. |
| R 23/24/25 | TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. |
| R 36 | IRRITATING TO EYES. |
| R 36/38 | IRRITATING TO EYES AND SKIN. |
| R 38 | IRRITATING TO SKIN. |
| R 39/23/24/25 | TOXIC: DANGER OF VERY SERIOUS IRREVERSIBLE EFFECTS THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. |
| R 48/20 | HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION. |
| R 63 | POSSIBLE RISK OF HARM TO THE UNBORN CHILD. |
| R 65 | HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED. |
| R 66 | REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING. |
| R 67 | VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. |

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:

01 / 09 / 14