	PIGAL s.r.l. Revision nr. 12
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	Safety data sheet
SECTION 1. Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Code:	F00019
Product name	PRIMER RL5
	substance or mixture and uses advised against sion promoter, contains resins in organic solvents.
1.3. Details of the supplier of the s	afety data sheet
Name	PIGAL s.r.l.
Full address District and Country	Via G. Rossa, 2 40053 VALSAMOGGIA - Crespellano (BO) ITALIA
	Tel. +39 051969068
	Fax +39 051969353
e-mail address of the competent pers	on
responsible for the Safety Data Shee	t health.safety@pigal.it; pigalab@pigal.it
1.4. Emergency telephone number	
For urgent inquiries refer to	+39 051969068 ore ufficio/office hours (8.30-13; 14-17.30) 118 (contattare il centro
	antiveleni più vicino)/please contact your near local poison control center

# **SECTION 2. Hazards identification.**

### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

### 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:	
Flam. Liq. 2	H225
Repr. 2	H361d
Eye Irrit. 2	H319
Skin Sens. 1B	H317
STOT SE 3	H336

The full wording of the hazard (H) phrases is given in section 16 of the sheet.

### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

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		N		
< <p>(%)</p>	$> \langle !$	>		
Signal words:	Danger			
-				
lazard statements:				
H225	Highly flammable liq	uid and vapour.		
H361d	Suspected of damag	ging the unborn child.		
H317	May cause an allergi May cause drowsine	ic skin reaction.		
	.y			
recautionary statements:				
	Obtain special instru Keep away from hea		, open flame or other igniti	on sources. Not smoking.
P233	Keep container tight	ly closed.	/ eye protection / face pro	
P304+P340	IF INHALED: Remov	ve victim to fresh air an erned: Get medical advi	d keep at rest in a positior	comfortable for breathing.
P261	Avoid breathing vap	ours.		e contact lenses, if present and easy to do. Continue
	rinsing.	autiously with water for	several minutes. Remove	contact lenses, il present and easy to do. Continue
	TOLUENE			
	gamma-Mercaptopro PROPAN-2-OL	opyitrimetnoxysilane		
2.3. Other hazards.				
nformation not available.				
SECTION 3. Comp	osition/inform	ation on ingred	ients.	
3.1. Substances.				
nformation not relevant.				
3.2. Mixtures.				
Contains:				
Identification. PROPAN-2-OL		Conc. %.	Classification 1272/	2008 (CLP).
CAS. 67-63-0		86 - 90	Flam. Liq. 2 H225, Eye Irrit. H336	2 H319, STOT SE 3
EC. 200-661-7				
INDEX. 603-117-00-0	05			
Reg. no. 01-2119457558-	20			

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TOI UENE Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT CAS. 108-88-3 4 - 4,5 SE 3 H336, Aquatic Chronic 3 H412 EC. 203-625-9 INDEX. 601-021-00-3 Reg. no. 01-2119471310-51 gamma-Mercaptopropyltrimethoxysilane Acute Tox. 4 H302, Skin Sens. 1B H317, Aquatic CAS. 4420-74-0 1,5 - 2 Chronic 2 H411 EC. 224-588-5 INDEX. -Reg. no. --METHANOL CAS. 67-56-1 Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370 0 - 0,05 EC. 200-659-6 INDEX. 603-001-00-X Reg. no. 01-2119433307-44

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

# **SECTION 4. First aid measures.**

#### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

#### 4.2. Most important symptoms and effects, both acute and delayed.

For symptoms and effects caused by the contained substances, see chap. 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

### **SECTION 5. Firefighting measures.**

#### 5.1. Extinguishing media.

#### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.



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#### 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

# **SECTION 6.** Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

# **SECTION 7. Handling and storage.**

#### 7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see

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section 10 for details.

7.3. Specific end use(s).

Information not available.

# SECTION 8. Exposure controls/personal protection.

### 8.1. Control parameters.

Regulatory References:

United Kingdom	EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended).
Éire	Code of Practice Chemical Agent Regulations 2011.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
TLV-ACGIH	ACGIH 2012

#### PROPAN-2-OL

FILOF AN-2-OL						
Threshold Limit Value.						
Туре	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	UK		400		500	
OEL	IRL		400		500	
TLV-ACGIH			200		400	

### DNEL

Workers Dermal Chronic Effects = 888 mg / kg Workers Inhalation Chronic Effects = 500 mg / m3 Consumers Dermal Chronic Effects = 319 mg / kg Consumers Inhalation Chronic Effects = 89 mg / m3 Consumers Ingestion Chronic Effects = 26 mg / kg PNEC Fresh Water = 140.9 mg / I Sea water = 140.9 mg / I Freshwater sediment = 552 mg / kg

Marine sediment = 552 mg / kg

Soil = 28 mg / kg.

TOLUENE							
Threshold Limit Value.							
Туре	Country	TWA/8h		STEL/15min			
		mg/m3	ppm	mg/m3	ppm		
OEL	EU	192	50	384	100	SKIN	
WEL	UK	191	50	384	100	SKIN	
OEL	IRL	192	50	384	100	SKIN	
TLV-ACGIH		75,4	20				
Predicted no-effect concentration	n - PNEC.						
Normal value for the terrestrial constraints of the terrestrial constraints of the terrestrial constraints of the terrestrict of terrestric	ent release liment ediment			2,89 0,68 0,68 16,39 16,39 13,61		mg/kg mg/l mg/l mg/kg mg/kg mg/l	



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Health - Derived no-effect	Effects on consumers.	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	8,13 mg/kg bw/d				
Inhalation.			56,5 mg/m3	56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin.			VND	226 mg/kg bw/d			VND	384 mg/kg bw/d
METHANOL								
Threshold Limit Value.	Country			OTEL /1Emin				
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	260	200			SKIN		
WEL	UK	266	200	333	250	SKIN		
OEL	IRL	260	200			SKIN		
TLV-ACGIH		262	200	328	250			

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

TOLUENE - Professional Biological limit values 0.02 mg/l blood - before the latest weekly round (ACGIH BEI) 0.03 mg/l urine - the end of the round (ACGIH BEI) o-cresol - 0.3 mg/g end of the round (ACGIH BEI).

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

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#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

2-propanol

Provider information on the material for gloves, suitable for protection against the permanent contact: nitrile rubber / latex, nitrile - through time> = 480 min - Material thickness 0.35 mm Butyl Rubber - through time> = 480 min - Material thickness 0.5 mm gloves for protection against splashes: polychloroprene - through time> = 240 min - Material thickness: 0.5 mm gloves are not suitable: Natural rubber / latex, polyvinyl chloride.

# **SECTION 9.** Physical and chemical properties.

#### 9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	colourless
Odour	typical of solvent
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	> 35 °C.
Boiling range.	Not available.
Flash point.	< 23 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	2 % (V/V).
Upper explosive limit.	12 % (V/V).
Vapour pressure.	100 kPa
Vapour density	Not available.
Relative density.	0,813 Kg/l
Solubility	miscible with water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	425 °C.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.
9.2. Other information.	

VOC (Directive 1999/13/EC) :	91,13 %	-	740,86	g/litre.
VOC (volatile carbon) :	55,97 %	-	455,04	g/litre.



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# **SECTION 10. Stability and reactivity.**

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

TOLUENE: breaks down in sunlight. PROPAN-2-OL: Reacts with acids and strong oxidizing agents.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

#### 10.5. Incompatible materials.

PROPAN-2-OL: Strong acids and oxidizing agents. Alkali metals. Aluminum. Iron. Amines.

#### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

# **SECTION 11. Toxicological information.**

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation.

Vapour inhalation may moderately irritate the upper respiratory trait. Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product 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, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to 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.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

TOLUENE - Skin irritation (rabbit) - Directive 67/548 / EEC, Annex V, B.4

Effects on fetal development (inhalation / rat): positive

specific target organ toxicity (STOT) - single exposure: May cause drowsiness or dizziness.

repeated exposure: May cause damage to organs (Target Organs Central nervous system) Symptoms: neurological disorders, fatigue, dizziness

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Bepeated dose toxicity: LOAEL 1 875	mg / I (inhalation / rat); exposure time: 6 m				
Target organs: central nervous system Aspiration toxicity: it is known that the		ed as if it does cause risk of toxicity from			
suction to man.					
	METHANOL: The minimal lethal dose following ingestion is considered to be in the range of 300-1000 mg/kg. Ingestion of as little as 4-10 ml methanol in adults may cause permanent blindness (IPCS).				
2-propanol - Serious eye damage / eye	e irritation: rabbit, Result: irritating, (literature value).				
gamma-Mercaptopropyltrimethoxysilane The product can hydrolyze in contact with body fluids in the gastro-intestinal tract and produce additional amounts of methanol. We must therefore take into account the possible toxic effects due to the formation of methanol (eye damage and blindness, metabolic acidosis, dizziness, and somnolence, fetal toxicity and damage to the liver, kidneys and the heart muscle). Sensitization (guinea pig): positive - Classification: May cause sensitization by skin contact. Method: OECD Test Guideline 406.					
TOLUENE LD50 (Oral). 5580 mg/kg Rat LD50 (Dermal). 12124 mg/kg Rabbit LC50 (Inhalation). 28,1 mg/l/4h Rat PROPAN-2-OL LD50 (Oral). > 2000 mg/kg Rat LD50 (Dermal). > 2000 mg/kg Rabbit LC50 (Inhalation). 20 mg/l/8h Rat gamma-Mercaptopropyltrimethoxysilat LD50 (Oral). 850 mg/kg Rat - female LD50 (Dermal). 2247 mg/kg Rat - fem	ne				
SECTION 12. Ecological	information.				
No specific data are available for thi waterways. Inform the competent auth measures to reduce harmful effects or 12.1. Toxicity.	s product. Handle it according to good working practices. Avoid litterin norities, should the product reach waterways or sewers or contaminate so n aquifers.	ng. Do not contaminate soil, sewers and il or vegetation. Please take all the proper			
TOLUENE LC50 - for Fish. 5,5 mg/l/96h Oncorhynchus kisutch EC50 - for Crustacea. 3,78 mg/l/48h Ceriodaphnia dubia Chronic NOEC for Fish. 1,39 mg/l Oncorhynchus kisutch/40 d Chronic NOEC for Crustacea. 0,74 mg/l Ceriodaphnia dubia/7 d Chronic NOEC for Algae / Aquatic Pla 10 mg/l Skeletonema costatum/72 h	nts.				
LC50 - for Fish.					

> 100 mg/l/96h Pesci. Leuciscus idus melanotus
> 100 mg/l/96h Pesci. Leuciscus idus melanotus
EC50 - for Crustacea.
> 100 mg/l/48h Dafnia magna
EC50 - for Algae / Aquatic Plants.
> 100 mg/l/72h Alghe, Scenedesmus subspicatus

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gamma-Mercaptopropyltrimethoxysila LC50 - for Fish. 12,3 mg/l/96h Lepomis macrochirus EC50 - for Crustacea. 6,7 mg/l/48h Daphnia Chronic NOEC for Algae / Aquatic Pla 40 mg/l Alga	(Pesce-sale Bluegill)	

#### 12.2. Persistence and degradability.

2-propanol - aerobic, 53% Result: Readily biodegradable., Exposure time: 5 d, activated sludge, domestic, not adapted.

TOLUENE Rapidly biodegradable.

gamma-Mercaptopropyltrimethoxysilane NOT rapidly biodegradable.

12.3. Bioaccumulative potential.

2-propanol - are not expected to bioconcentrate (log coeff. Octanol / water <= 4).

TOLUENE Partition coefficient: n-octanol/water. 2,73 BCF. 90 Leuciscus idus 12.4. Mobility in soil.

Information not available.

#### 12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%. 12.6. Other adverse effects.

Information not available.

### **SECTION 13.** Disposal considerations.

The valid EEC waste code are largely source-related; the manifacturer is, therefore, unable to specify waste codes for products used in various sectors. CER-code (suggested): 08 04 09.

#### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### **SECTION 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



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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.

AI	i <b>l transport:</b> DR/RID Class:	3	UN:	1866
Pa	acking Group:	Ш		
La	bel:	3		
Nr	. Kemler:	33		
Lir	nited Quantity.	5 L		
Τι	innel restriction code.	(D/E)		
Pr	oper Shipping Name:	<b>RESIN SOLUTION</b>		
Sp	pecial Provision:	640C		
arriage by s	sea (shipping):			
	IO Class:	3	UN:	1866
Pa	acking Group:	Ш		
La	bel:	3		
EN	MS:	F-E ,	<u>S-E</u>	
Ma	arine Pollutant.	NO		
Pr	oper Shipping Name:	<b>RESIN SOLUTION</b>		
ransport by	<i>i</i> air:			
	TA:	3	UN:	1866
Pa	acking Group:	П		
La	bel:	3		
Ca	argo:			
Pa	ackaging instructions:	364	Maximum quantity:	60 L
Pa	ass.:			
Pa	ackaging instructions:	353	Maximum quantity:	5 L
	pecial Instructions:	A3		
	oper Shipping Name:	<b>RESIN SOLUTION</b>		

# **SECTION 15. Regulatory information.**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. 7b

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product. Point.

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Contained substance.					
Point.	48	TOLUENE Reg. no.:			
		01-2119471310-51			
Substances in Candidate List (Art. 59	REACH).				
None.					
Substances subject to authorisarion (Annex XIV REACH).					
None.					
Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:					
None.					
Substances subject to the Rotterdam Convention:					
None.					
Substances subject to the Stockholm Convention:					
None.					
Healthcare controls.					
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.					
Product not intended for uses provided	d for by Dir. 2004/42/CE.				
15.2. Chemical safety assessment	í. <b>-</b>				
No chemical safety assessment has been processed for the mixture and the substances it contains.					
SECTION 16. Other information.					
Text of hazard (H) indications mention	ed in section 2-3 of the s	sheet:			

Flam. Liq. 2 Flammable liquid, category 2 Repr. 2 Reproductive toxicity, category 2 Acute Tox. 3 Acute toxicity, category 3 STOT SE 1 Specific target organ toxicity - single exposure, category 1 Acute Tox. 4 Acute toxicity, category 4 Asp. Tox. 1 Aspiration hazard, category 1 STOT RE 2 Specific target organ toxicity - repeated exposure, category 2 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2



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ľ				
	Skin Sens. 1B	Skin sensitization, category 1B		
	STOT SE 3	Specific target organ toxicity - single exposure, category 3		
	Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2		
	Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3		
	H225	Highly flammable liquid and vapour.		
	H361d			
	H301	Suspected of damaging the unborn child. Toxic if swallowed.		
	H311	Toxic in contact with skin.		
	H331	Toxic if inhaled.		
	H370	Causes damage to organs.		
	H302	Harmful if swallowed.		
	H304	May be fatal if swallowed and enters airways.		
	H373	May cause damage to organs through prolonged or repeated exposure.		
	H319	Causes serious eye irritation.		
	H315	Causes skin irritation.		
	H317	May cause an allergic skin reaction.		
	H336	May cause drowsiness or dizziness.		
	H411	Toxic to aquatic life with long lasting effects.		
	H412	Harmful to aquatic life with long lasting effects.		
	LEGEND:	nt concerning the carriage of Dangerous goods by Road		
	- CAS NUMBER: Chemical			
ŀ		tion (required to induce a 50% effect)		
	- CE NUMBER: Identifier in ESIS (European archive of existing substances) - CLP: EC Regulation 1272/2008			
-	- OLF. EC Regulation 1272/2008			
ŀ	- EmS: Emergency Schedule			
	<ul> <li>GHS: Globally Harmonized System of classification and labeling of chemicals</li> <li>IATA DGR: International Air Transport Association Dangerous Goods Regulation</li> </ul>			
	- IC50: Immobilization Concentration 50%			
	- IMDG: International Maritime Code for dangerous goods			
	- IMO: International Maritime Organization - INDEX NUMBER: Identifier in Annex VI of CLP			
	- LC50: Lethal Concentration 50%			
	- LD50: Lethal dose 50% - OEL: Occupational Exposure Level			
-	- OEL. Occupational Exposure Level - PBT: Persistent bioaccumulative and toxic as REACH Regulation			
ŀ	- PEC: Predicted environmental Concentration			
	- PEL: Predicted exposure level - PNEC: Predicted no effect concentration			
ŀ	REACH: EC Regulation 1907/2006			
	RID: Regulation concerning the international transport of dangerous goods by train TLV: Threshold Limit Value			
-	- TLV CEILING: Concentrati	ion that should not be exceeded during any time of occupational exposure.		
ŀ	- TWA STEL: Short-term ex			
	<ul> <li>TWA: Time-weighted avera</li> <li>VOC: Volatile organic Corr</li> </ul>			
ŀ	- vPvB: Very Persistent and	very Bioaccumulative as for REACH Regulation		
-	<ul> <li>WGK: Water hazard classe</li> </ul>	es (German).		

- WGK: Water hazard classes (German).

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6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament

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ECHA website

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. Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 10 / 11 / 12 / 15 / 16.