

Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 1 / 9

TR-2606 - RARTPA TR-2606

Safety data sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Code: TR-2606 Product name **RARTPA TR-2606** 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Thermoplastic Acrylic Resin / for decorative and quick drying paints. Industrial quality quick drying paints / as acrylic topcoat for textured paints. Road marking paints / for pavements / kerb stones / pathways 1.3. Details of the supplier of the safety data sheet **RAR Resin & Chemical Industries JLT** Name Full address 11th Floor - One Lake Plaza, Jumeirah Lakes Towers District and Country 971 Dubai UAE Tel. 00971 4 4356517 Fax 00971 4 4356518 e-mail address of the competent person responsible for the Safety Data Sheet technical@rarresin.com, info@rarresin.com Product distribution by Supplier/ Exporter : RAR Resin & Chemical Industries JLT 1.4. Emergency telephone number For urgent inquiries refer to 0097144356517, 00971555594056

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 Directives 67/548/EEC and 1999/45/EC (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.

Danger Symbols: Xn

R phrases: 10-20/21-38

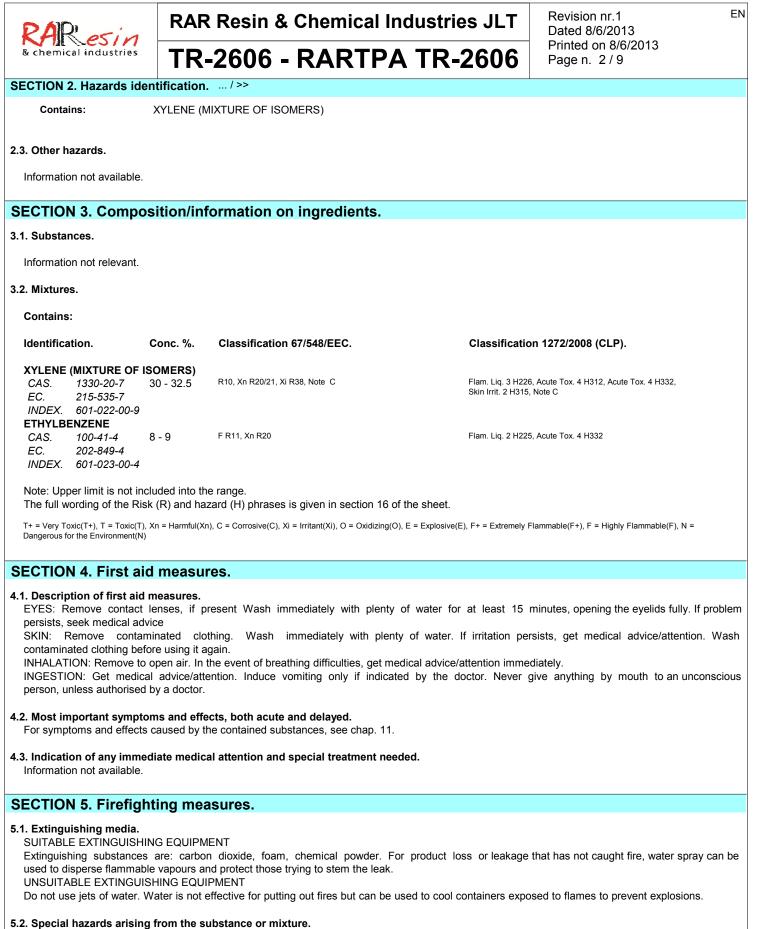
2.2. Label elements.

Hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.



R10	FLAMMABLE.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R38	IRRITATING TO SKIN.
S 9 S36/37 S43	KEEP CONTAINER IN A WELL-VENTILATED PLACE. WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES. IN CASE OF FIRE, USE USE FOAM, DRY CHEMICAL OR CARBON DIOXIDE(CO2) . DO NOT USE STRAIGHT STREAMS OF WATER.

ΕN



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.



TR-2606 - RARTPA TR-2606

Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 3 / 9

SECTION 5. Firefighting measures. />>

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.

FOR LIQUID PRODUCTS:

Block the leakage if there is no hazard.

FOR SOLID PRODUCTS:

If there are no contraindications, spray powder with water to prevent the formation of dust. Avoid breathing vapours/mists/gases.

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.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

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.

FOR LIQUID PRODUCTS: 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.

FOR SOLID PRODUCTS: Use spark-proof mechanical equipment to collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

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. 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. 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 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

Éire OEL EU TLV-ACGIH 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). Code of Practice Chemical Agent Regulations 2011. Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC. ACGIH 2012



TR-2606 - RARTPA TR-2606

Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 4 / 9

SECTION 8. Exposure controls/personal protection. .../>>

XYLENE (MIXTURE OF ISOMERS)

lue.								
Country	TWA/8h		STEL/15	min				
	mg/m3	ppm	mg/m3	ppm				
UK	220	50	441	100				
IRL	221	50	442	100	SKIN			
EU	221	50	442	100	SKIN			
	434	100	651	150				
	Country UK IRL	mg/m3 UK 220 IRL 221 EU 221	Country TWA/8h mg/m3 ppm UK 220 50 IRL 221 50 EU 221 50	Country TWA/8h STEL/15r mg/m3 ppm mg/m3 UK 220 50 441 IRL 221 50 442 EU 221 50 442	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm UK 220 50 441 100 IRL 221 50 442 100 EU 221 50 442 100	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm UK 220 50 441 100 IRL 221 50 442 100 SKIN EU 221 50 442 100 SKIN	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm UK 220 50 441 100 IRL 221 50 442 100 SKIN EU 221 50 442 100 SKIN	Country TWA/8h STEL/15min mg/m3 ppm mg/m3 ppm UK 220 50 441 100 IRL 221 50 442 100 SKIN EU 221 50 442 100 SKIN

ETHYLBENZENE

Threshold Limit Va	alue.							
Туре	Country	TWA/8h		STEL/15r	min			
		mg/m3	ppm	mg/m3	ppm			
WEL	UK	441	100	552	125	SKIN		
OEL	IRL	442	100	884	200	SKIN		
OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH		20	100		87			

Legend:

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

TLV of solvent mixture: 84 mg/m3.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration. Personal protection equipment must comply with the rules in force indicated below. HAND PROTECTION

Protect hands with category III (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVA, butyl, fluoroelastomer or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure. EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166).

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

RESPIRATORY PROTECTION

If the threshold value (if available) for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of respiratory tract protection equipment, such as masks like that indicated above, is necessary to reduce worker exposure in the absence of technical measures. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

ENVIRONMENTAL EXPOSURE CONTROLS.

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

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	dense liquid
Colour	colourless
Odour	characteristic of solvent
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	> 136 °C.
Boiling range.	Not available.



Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 5 / 9

TR-2606 - RARTPA TR-2606

SECTION 9. Physical and chemical properties. .../>>

Flash point. Evaporation Rate Flammability of solids and gases Lower inflammability limit. Upper inflammability limit.	>	23 0.85 Not avai 0.9 7	% (\ % (\	//V). //V).	
Lower explosive limit.		Not avai			
Upper explosive limit.		Not avai			
Vapour pressure.		6	mml	0	
Vapour density		<1 at 10	1 kPa	1	
Relative density.		1 - 1.04		Kg	/I
Solubility		insoluble	e in w	ater	
Partition coefficient: n-octanol/water		3.12 - 3.	16		
Auto-ignition temperature.	>	432	°C.		
Decomposition temperature.		Not avai	lable.		
Viscosity		Z5 - Z6	Gardr	ner@25°C	
Explosive properties		Not avai	lable.	-	
Oxidising properties		Not avai	lable.		
9.2. Other information.					
Solid content.		60.00 %			
VOC (Directive 1999/13/EC) :		40.00 %	-	398.49	g/litre.
VOC (volatile carbon) :		36.24 %	-	361.04	g/litre.
					0

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

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.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form explosive mixtures with the air.

10.4. Conditions to avoid.

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

10.5. Incompatible materials.

Information not available.

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.

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

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.

Acute effects: inhalation and cutaneous absorption 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 health problems (stomach pain, nausea, sickness, diarrhoea).

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



TR-2606 - RARTPA TR-2606

Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 6/9

SECTION 11. Toxicological information. ... / >>

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral). LD50 (Dermal). LC50 (Inhalation).

ETHYLBENZENE LD50 (Oral). LD50 (Dermal). LC50 (Inhalation).

3523 mg/kg Rat 4350 mg/kg Rabbit 26 mg/l/4h Rat

3500 mg/kg Rat 15354 mg/kg Rabbit 17.2 mg/l/4h Rat

SECTION 12. Ecological information.

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

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability. Information not available.

12.3. Bioaccumulative potential. Information not available.

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.

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.

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 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.

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Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 7 / 9 ΕN

TR-2606 - RARTPA TR-2606

SECTION 14. Transport information. .../>>

Road and rail transport:

Road and rall transport:			
ADR/RID Class: Packing Group: Label: Nr. Kemler: Limited Quantity. Tunnel restriction code. Proper Shipping Name: Special Provision:	3 UN: III 3 30 5 L (D/E) RESIN SOLUTION 640E	1866 N	
Carriage by sea (shipping):			
IMO Class: Packing Group: Label: EMS: Marine Pollutant. Proper Shipping Name:	3 UN: III 3 F-E , <u>S-E</u> NO RESIN SOLUTION	1866 N	
Transport by air:			
IATA: Packing Group: Label: Cargo:	3 UN: III 3	1866	
Packaging instructions: Pass.:	366	Maximum quantity:	220 L
Packaging instructions: Special Instructions: Proper Shipping Name:	355 A3 RESIN SOLUTION	Maximum quantity:	60 L
SECTION 15. Regulatory info	ormation.		
15.1. Safety, health and environmental		ion specific for the substanc	ce or mixture.
Seveso category. 6			
Restrictions relating to the product or con Product. Point. 3 - 40	ntained substances pur	suant to Annex XVII to EC Regu	ulation 1907/2006.
<u>Substances in Candidate List (Art. 59 RE</u> None.	ACH).		

Substances subject to authorisarion (Annex XIV REACH). None.

Substances subject to exportation reporting pursuant to (EC) Reg. 689/2008: 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.

15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.



TR-2606 - RARTPA TR-2606

Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 8 / 9

SECTION 15. Regulatory information. ... / >>

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 2 Flam. Liq. 3 Acute Tox. 4 Skin Irrit. 2 H225 H226 H312 H332	Flammable liquid, category 2 Flammable liquid, category 3 Acute toxicity, category 4 Skin irritation, category 2 Highly flammable liquid and vapour. Flammable liquid and vapour. Harmful in contact with skin. Harmful if inhaled.
H315	Causes skin irritation.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R10	FLAMMABLE.
R11	HIGHLY FLAMMABLE.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R38	IRRITATING TO SKIN.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SK

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- 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
- PBT: Persistent bioaccumulative and toxic as Reach Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

GENERAL BIBLIOGRAPHY

- 1. Directive 1999/45/EC and following amendments
- 2. Directive 67/548/EEC and following amendments and adjustments
- 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 6. Regulation (EC) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
- 8. The Merck Index. 10th Edition
- 9. Handling Chemical Safety



TR-2606 - RARTPA TR-2606

Revision nr.1 Dated 8/6/2013 Printed on 8/6/2013 Page n. 9 / 9

SECTION 16. Other information. />>

- 11. INRS Fiche Toxicologique (toxicological sheet)
- 12. Patty Industrial Hygiene and Toxicology
- 13. N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition

14. 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: 08.