



SAFETY DATA SHEET

Thinner 641

1. Identification of the preparation and of the company

Product name and/or code : Thinner 641
Product use : Solvent for lacquers and paints.
 Andrews Coatings Ltd. Carver Building, Littles Lane
Manufacturer : Wolverhampton, West Midlands, WV1 1JY
 Telephone Number: 01902 429190, Fax Number: 01902 426574
Emergency phone: : Email: sales@andrewscoatings.co.uk

2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS no.	%	EC nr.	Classification
United Kingdom (UK) Xylene (mixture of isomeres)	1330-20-7	50 - 100	215-535-7	R10 Xn; R20/21 Xi; R38
p-Mentha-1,8(9)-diene	138-86-3	0 - 1	205-341-0	R10 Xi; R38 R43 N; R50/53
See section 16 for the full text of the R-phrases declared above				

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The substance is classified as dangerous according to Directive 67/548/EEC and its amendments.

Classification : R10
Xn; R20/21
Xi; R38
Physical/chemical hazards : Flammable.
Human health hazards : Harmful by inhalation and in contact with skin. Irritating to skin.
Additional warning phrases : Contains Dipentene. May produce an allergic reaction.

4. First aid measures

First aid measures

General : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and seek medical advice.
Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.
Eye contact : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.
Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

5. Fire-fighting measures

Extinguishing media : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
Not to be used : water jet.
Recommendations : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.
Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides

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6. Accidental release measures

- Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.

Put on appropriate personal protective equipment (see section 8).

Comply with the health and safety at work laws.

- Storage** : Store in accordance with local regulations. Observe label precautions. Do not store above the following temperature: 35°C (95°F). Store in a cool, well-ventilated area away from incompatible materials and ignition sources.

Keep away from: oxidizing agents, strong alkalis, strong acids.

No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not empty into drains..

8. Exposure controls/personal protection

- Engineering measures** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
United Kingdom (UK) Xylene (mixture of isomeres)	EH40-WEL (United Kingdom (UK), 1/2005). Skin STEL: 441 mg/m ³ 15 minute(s). Form: All forms STEL: 100 ppm 15 minute(s). Form: All forms TWA: 220 mg/m ³ 8 hour(s). Form: All forms TWA: 50 ppm 8 hour(s). Form: All forms

Exposure controls

- Occupational exposure controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

8. Exposure controls/personal protection

- Respiratory protection** : Recommended: organic vapor filter (Type AX) (EN 140) .
- Hand protection** : >8 hours (breakthrough time): Gloves , polyvinyl alcohol (PVA) (EN 374-1).
- Eye protection** : Recommended: safety glasses with side-shields (EN 166) .
- Skin protection** : Recommended: overall (EN 1149-1) .
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Environmental exposure controls

Do not allow to enter drains or watercourses.

9. Physical and chemical properties

- Physical state** : Liquid. (Clear sparkling liquid.)
- Odor** : Solvent-like.
- Color** : Colorless.
- Flash point** : Closed cup: 25°C (77°F). (Setaflash.)
- Boiling point** : >140°C (284°F)
- Explosion limits** : Lower: 1% Upper: 8%
- Vapor pressure** : Highest known value: 0.8 kPa (6 mm Hg) (at 20°C) (Xylene).
- Vapor density** : >1 (Air = 1)
- Evaporation rate (butyl acetate = 1)** : >1 compared with Butyl acetate.
- Volatility %** : 100% (v/v). 100% (w/w).
- VOC content w/w** : 860 (g/l).
- Solubility** : Soluble in the following materials: methanol, diethyl ether and acetone.
Partially soluble in the following materials: n-octanol.
Insoluble in the following materials: cold water and hot water.
- Relative density** : 0,86

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage.

Contains Dipentene. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Xylene (mixture of isomeres)	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
	LC50 Inhalation	Rat	5000 ppm	4 hours
	Vapor			
p-Mentha-1,8(9)-diene	LD50 Oral	Rat	5300 mg/kg	-

12. Ecological information

There is no data available on the preparation itself.
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Xylene (mixture of isomers)	Mortality	Acute LC50 13,4 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 12 mg/L	Fish - Bluegill sunfish (lepomis macrochirus)	96 hours
p-Mentha-1,8(9)-diene	Mortality	Acute LC50 8,2 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours
	Intoxication	Acute EC50 17 mg/L	Daphnia - Daphnia magna	48 hours
	Mortality	Acute LC50 966 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 569 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours
	Mortality	Acute LC50 568 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours
	Mortality	Acute LC50 80 mg/L	Fish - Rainbow trout (oncorhynchus mykiss)	96 hours
	Mortality	Acute LC50 1490 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours

Ecological information

Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
Xylene (mixture of isomers)	-	90 % - Readily - 5 days	-	-

Conclusion/Summary : Rapidly lost by degradation and volatilization.

Product/ingredient name

Xylene (mixture of isomers)

Aquatic half-life

-

Photolysis

-

Biodegradability

Readily

Bioaccumulative potential

Product/ingredient name

Xylene (mixture of isomers)

LogP_{ow}

3.2

BCF

-

Potential

high

AOX

: The product does not contain organically bound halogens which could lead to an AOX value in waste water.

13. Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

European waste catalogue (EWC) : The European Waste Catalogue classification of this product, when disposed of as waste, is: 14 06 03* other solvents and solvent mixtures. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.



Hazardous waste

: Yes.


14. Transport information

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

International transport regulations


Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
ADR/RID Class	1263	Painting-related materials. (≤ 5L:) Limited quantity (Xylene)	3	III		Hazard identification number 30 Limited quantity LQ7 CEFIC Tremcard 30G35 Remarks (≤ 5L:) Limited Quantity - ADR/IMDG 3.4.6 Special provision 640E
						

14. Transport information

IMDG Class	1263	Painting-related materials. (≤ 5L:) Limited quantity (Xylene)	3	III		Emergency schedules (EmS) F-E, S-E Remarks (≤ 5L:) Limited Quantity - ADR/IMDG 3.4.6 Special provision 640E
IATA Class	1263	Painting-related materials. (Xylene)	3	III		Passenger and Cargo Aircraft Quantity limitation: 60 L Packaging instructions: 309 Cargo Aircraft Only Quantity limitation: 220 L Packaging instructions: 310 Limited Quantities - Passenger Aircraft Quantity limitation: 10 L Packaging instructions: Y309 Special provisions: A72

PG* : Packing group

15. Regulatory information

EU regulations	: The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:
Hazard symbol(s)	:  Harmful
Risk phrases	: R10- Flammable. R20/21- Harmful by inhalation and in contact with skin. R38- Irritating to skin.
Safety phrases	: S23- Do not breathe vapor or spray. S36/37- Wear suitable protective clothing and gloves. S43- In case of fire, use DRY chemicals, CO2, alcohol resistant foam or water spray. S46- If swallowed, seek medical advice immediately and show this container or label. S51- Use only in well-ventilated areas. S60- This material and its container must be disposed of as hazardous waste.
Contains	: Xylene (mixture of isomeres)
Europe inventory	: Europe inventory: All components are listed or exempted.
Other EU regulations	
Additional warning phrases	: Contains Dipentene. May produce an allergic reaction.
CN code	: 3814 00 90
National regulations	
Industrial use	: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

16. Other information

CEPE Classification	: 1
Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R10- Flammable. R20/21- Harmful by inhalation and in contact with skin. R38- Irritating to skin. R43- May cause sensitization by skin contact. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

Notice to reader

16. Other information

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.



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Rustoleum Aerosols, Carver Building, Little's Lane, Wolverhampton WV1 1JY
 Tel: 01902 712286 Email: sales@rustoleumaerosols.co.uk
 Fax: 01902 426574 Web: www.rustoleumaerosols.co.uk