



Material Safety Data Sheet

Thermal Paint

APR MSDS 07-06
Issue 3
Date 13/12/2021

Material Safety Data Sheet

1. Substance/ Preparation Identification & Company

1.1 Product Name

APR Thermal Paint Kit

1.2: Supplier:

A.P.Racing, Wheler Road, Coventry, CV3 4LB, United Kingdom, +44 (0) 24 76 7663 9559

2. Hazards Identification

2.1 Health Hazards

CP2649-103

Narcotic and Anaesthetic effects may result from prolonged inhalation of vapour, leading to dizziness, drowsiness, headaches, nausea and unconsciousness, Kidney damage if possible exposure serious.

Certain solvents, may be absorbed through the skin, see section 11. Solvents will defat skin and may lead to dermatitis. Flammable vapours may be formed if this product is sprayed or evaporative vapour Concentrations are not dispersed.

CP2649-104

Narcotic and Anaesthetic effects may result from prolonged inhalation of vapour, leading to dizziness, drowsiness, headaches, nausea and unconsciousness, Kidney damage if possible exposure serious.

Certain solvents, may be absorbed through the skin, see section 11. Solvents will defat skin and may lead to dermatitis. Flammable vapours may be formed if this product is sprayed or evaporative vapour Concentrations are not dispersed. Lead based pigments are a cumulative poison. Possible risk of Irreversible effects. Harmful if swallowed.

CP2649-105

Narcotic and Anaesthetic effects may result from prolonged inhalation of vapour, leading to dizziness, drowsiness, headaches, nausea and unconsciousness, Kidney damage if possible exposure serious.

Cadmium is a suspected carcinogen. Certain solvents, may be absorbed through the skin, see section 11. Solvents will defat skin and may lead to dermatitis. Flammable vapours may be formed if this product is sprayed or evaporative vapour concentrations are not dispersed. Absorption of Cadmium mainly occurs through dust or fumes of oxide. Acute effects to eyes, throat, nose, weakness, chest pain and pulmonary damage.

CP2649-106 Solvent

Prolonged or repeated exposure not likely to cause significant skin irritation. Prolonged skin contact with very large amounts could cause drowsiness. Repeated excessive exposures may cause irritation to the upper respiratory tract. Prolonged or repeated exposure may affect liver and / or kidney function. Contact with eyes may result in slight transient irritation with corneal injury. Flammable vapours may be Formed if this product is sprayed or evaporative vapour concentrations are not dispersed.

3. Composition/ Information on Ingredients

3.1 General

Each product listed has a fixed value within the ranges listed below. The exact formulation is confidential. Constituents classified as hazardous to health or with an exposure limit: (see section 11)

3.2 Hazardous Ingredients

CP2649-103

2-Methoxy-1-Methylethylacetate (PMA) EEC label, EEC# 203-603-9	
(CAS 108-65-6), R10, R36	32%
Xylene (CAS 1330-20-7) XN, 7 20/21, R38, R10	28%
Pigments	17%
Acrylic resins	23%

CP2649-104

2-Methoxy-1-Methylethylacetate (PMA) EEC label, EEC# 203-603-9	
(CAS 108-65-6), R10, R36	17%
Xylene (CAS 1330-20-7) XN, 7 20/21, R38, R10	<10%
Thermally sensitive pigments including Lead Based Compound	50%
R61, R62, R20/22, R33	
Together with mixed resins not classified as dangerous for supply	

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2-Methoxy-1-Methylethylacetate (PMA) EEC label, EEC# 203-603-9	
(CAS 108-65-6), R10, R36	17%
Xylene (CAS 1330-20-7) XN, 7 20/21, R38, R10	31%
Cadmium Sulpho-Selenide (CAS 58339-34-7) R22, R23/25, R33, R48, R49	17%

CP2649-106 SOLVENT

2-Methoxy-1-Methylethylacetate (PMA) EEC Label, EEC# 203-603-9	
(CAS 108-65-6),R10 ,R36	



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4. First Aid Measures

4.1 Paints Inhalation:

Symptoms: Dizziness, drowsiness, headaches, nausea, confusion and unconsciousness. Irritation of respiratory systems and coughing.

Action: Remove patient to fresh air away from fumes, avoid inhalation of fumes

4.2 Ingestion:

Symptoms: Irritation of digestive system, symptoms similar to inhalation.

Action: SEEK MEDICAL ATTENTION IMMEDIATELY

IF DELAYED & PATIENT CONSCIOUS:

Give milk and activated charcoal.

IF UNCONSCIOUS:

Lie on side of face, do not leave person alone, and send for immediate medical assistance.

4.3 Skin Contact:

Symptoms: Defatting, irritation and redness, prolonged contact may cause dermatitis or sensitisation.

Action: Wash off with soap and water. Remove contaminated clothes. Seek medical attention. If irritation persists.

4.4 Eye Contact:

Symptoms: Irritation and redness caused by liquor or vapour.

Action: Wash eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

4.5 Solvent Inhalation:

Symptoms: Irritation of respiratory systems and coughing.

Action: Remove patient to fresh air away from fumes, avoid inhalation of fumes.

4.6 Ingestion:

Symptoms: Irritation of digestive system.

Action: SEEK MEDICAL ATTENTION IMMEDIATELY

IF UNCONSCIOUS:

Lie on side of face, do not leave person alone, send for immediate medical assistance.

4.7 Skin Contact:

Symptoms: Irritation and redness, prolonged contact may cause dermatitis or sensitisation.

Action: Wash off with soap and water. Remove contaminated clothes. Seek medical attention. If irritation persists.

4.8 Eye Contact:

Symptoms: Irritation and redness caused by liquor or vapour.

Action: Wash eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

Alcohol resistant foam, dry chemical or water fog

CP2649-106 SOLVENT

Alcohol resistant foam, dry chemical or water fog or large fire alcohol resistant foam.

5.5 Combustion Hazards:

Smoke and toxic fumes containing oxides of carbon and silicon's, aldehydes, acids and other products of combustion.

Adjacent hot containers may burst – keep cool.

CP2649-105 only: Possible oxides of Cadmium.

CP2649-106 SOLVENT: Smoke and toxic fumes containing oxides of carbon.

Adjacent containers may burst keep cool

5.6 Unsuitable Extinguishing Media

Water jets (although these may be used to cool adjacent containers)

5.7 Special Protective Equipment

In extreme conditions self-contained breathing apparatus should be worn.

6. Accidental Release Measures

Extinguish or remove all sources of ignition and ventilate area. Surround and contain spillage. Absorb using porous inert material (sand, earth or absorbent granules) and gather up in lidded metal container using non-sparking tools. Send to special waste disposal. Do not allow to enter drains, earth or grassed areas or water courses. If drains or water courses contaminated inform local authorities. Wash residual area to drain with detergent and plenty of water.



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7. Handling & Storage

7.1 Handling:

Do not inhale vapour mist and avoid skin contact. Use in a well ventilated area of preferably under local exhaust ventilation. Do not smoke, eat or drink where this paint is applied.

7.2 Storage:

Store in a cool well ventilated area out of direct sunlight. Within the UK store with the HSE Guidance on the Storage of Flammable Liquids in Containers HS(G)51.

8. Exposure Controls/ Personal Protection

8.1 Ventilation:

Vapour should be controlled using local exhaust ventilation.

8.2 Respiratory Protection:

Where this cannot be practically achieved a suitable chemical cartridge or air fed visor must be used. When applying by spray a cartridge respirator or Air Fed visor must be worn to prevent inhalation or airborne droplets.

8.3 Eyes-Face Protection:

Splash and vapour goggles must be worn unless an air fed visor is already in use..

8.4 Skin-Body Protection:

Solvent resistant gloves must be worn. If back spray is unavoidable during spraying an impervious apron and arm covers should be considered. Contaminated personal protective equipment and clothing must be cleaned before-use

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1: Appearance

All paints are medium viscosity resinous preparations with the following colours:

CP2649-103 Green	CP2649-104 Red	CP2649-105 Red	CP2649-106 SOLVENT Colourless Liquid
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9.2: Odour

Are as indicated in table below:

CP2649-103 Sweet	CP2649-104 Sweet	CP2649-105 Sweet	CP2649-106 SOLVENT Mild Solvent
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9.3: pH

Neutral

9.4: Boiling Point / Range

Paints: 140 Degree C

Solvent: 145 Degree C

9.5: Melting Point

N/A

9.6: Flash Point

Are as indicated in table below:

CP2649-103 33 Degree C	CP2649-104 35 Degree C	CP2649-105 30 degree C	CP2649-106 SOLVENT 42.2 Degree C
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9.7: Flammability

Are as indicated in table below:

CP2649-103 Flammable	CP2649-104 Flammable	CP2649-105 Flammable	CP2649-106 SOLVENT Flammable
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9.8: Auto Flammability

N/A

9.9: Explosive Properties.

Lower Explosive Limit 1%

Upper Explosive Limit 7%

9.10: Relative Density

Are as indicated in table below

CP2649-103 1.1	CP2649-104 2.18	CP2649-105 1.1	CP2649-106 SOLVENT 0.97
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9.11: Solubility

Are as indicated in table below

CP2649-103 Solvents partially soluble, other components insoluble	CP2649-104 Solvents partially soluble, other components insoluble	CP2649-105 Solvents partially soluble, other components insoluble	CP2649-106 SOLVENT 19.8 (w +/vol) in water 20 degree C
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10. STABILITY AND REACTIVITY

CP2649-103

When heated, oxides of Carbon may be emitted. Avoid inhaling fumes. When dry paint film is heated, vent all fumes.

CP2649-104

When heated, oxides of Carbon and Lead may be emitted. Avoid inhaling fumes. When dry paint film is heated, vent all fumes.

CP2649-105

When heated, oxides of Carbon and Sulphur fumes and oxides may be emitted with a possibility of oxides of Cadmium, Avoid inhaling fumes. When dry paint film is heated, vent all fumes.

CP2649-106 SOLVENT

When heated, oxides of Carbon may be given off. Avoid inhaling fumes, Avoid heating.

11. TOXICOLOGICAL INFORMATION

Paints

The solvents used in this product will cause narcotic effects if inhaled or ingested together with severe irritation of the Respiratory and digestive tracts. There is also a risk of chemical pneumonia if strong vapour or liquid enters the lungs. Certain solvents will also penetrate the skin.

CP2649-103

The following constituents have exposure limits:

Xylene (skin)	OES	TWA 8hr	100ppm	435 mg/m3
	STEL	10 mins	150ppm	650 mg/m3
	LD50	ORAL RAT		4300 mg/kg

2-Methoxy-1-Methylethylacetate	LD	ORAL RAT	8532 mg/kg
	LD50	SKIN ABSORPTION	>5000 mg/kg

The following constituents have declared LD values:

Resins	LD	ORAL RAT	200-5000 mg/kg
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CP2649-104

The following constituents have exposure limits:

Xylene (skin)	OES	TWA 8hr	100ppm	435 mg/m3
	STEL	10 mins	150ppm	650 mg/m3
	LD50	ORAL RAT		4300 mg/kg

2-Methoxy-1-Methylethylacetate	LD	ORAL RAT	8532 mg/kg
	LD50	SKIN ABSORPTION	>5000 mg/kg

The following constituents have declared LD values:

Resins	LD	ORAL RAT	200-5000 mg/kg
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CP2649-105

The following constituents have exposure limits:

Xylene (skin)	OES	TWA 8hr	100ppm	435 mg/m3
	STEL	10 mins	150ppm	650 mg/m3
	LD50	ORAL RAT		4300 mg/kg

2-Methoxy-1-Methylethylacetate	LD	ORAL RAT	8532 mg/kg
	LD50	SKIN ABSORPTION	>5000 mg/kg

The following constituents have declared LD values:

Resins	LD	ORAL RAT	200-5000 mg/kg
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CP2649-106 SOLVENT

The solvent will cause irritation of the respiratory and digestive tracts. There is also a risk of chemical pneumonia if strong vapour or liquid enters the lungs.

2-Methoxy-1-Methylethylacetate	LD	ORAL RAT	8532 mg/kg
	LD50	SKIN ABSORPTION	>5000 mg/kg

12. ECOLOGICAL INFORMATION

CP2649-104 – N – Dangerous for the Environment. Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.



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13. DISPOSAL CONSIDERATIONS

Surplus, degraded or waste product and contaminated rags must be sent for special waste disposal. Consult waste disposal contractor or local waste authority in country of use. Dried paint may be considered for normal waste subject to local regulations in country of use. Dispose in accordance with Local Regulations (notify in accordance with Control of Pollution (Special Waste) regulations 1980, SI709 in UK).

14. TRANSPORT INFORMATION

Restricted for air transport

Paint UN No:
Packing Group:

UN1263

15. REGULATORY INFORMATION

Labelling in accordance with EU guidelines

These products have been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.



16. OTHER INFORMATION

Risk Phrases:

CP2649-103

R10	Flammable
R20/21/22	Harmful by inhalation and in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.

CP2649-104

R10	Flammable
R20/21/22	Harmful by inhalation and in contact with skin and if swallowed.
R33	Danger of cumulative effects.
R36/38	Irritating to eyes, respiratory system and skin.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.

CP2649-105

R10	Flammable
R20/21/22	Harmful by inhalation and in contact with skin and if swallowed.
R23/25	Toxic by inhalation and if swallowed.
R33	Danger of cumulative effects.
R36/37/38	Irritating to eyes, respiratory system and skin.
R48	Danger of serious damage to health by prolonged exposure.
R49	May cause cancer by inhalation.

Safety Phrases:

CP2649-103

S7/9	Keep container tightly closed and in a well ventilated place.
S36/37	Wear suitable protective clothing and gloves.
S51	Use only in well ventilated area
S60	This material and / or its containers must be disposed of as hazardous waste.

CP2649-104

R10	Flammable
R20/21/22	Harmful by inhalation and in contact with skin and if swallowed.
R33	Danger of cumulative effects.
R36/38	Irritating to eyes, respiratory system and skin.
R61	May cause harm to the unborn child.
R62	Possible risk of impaired fertility.

CP2649-105

S7/9	Keep container tightly closed and in a well ventilated place.
S20/21	When using do not eat or drink or smoke.



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S28
S36/37
S45
S51
S60

After contact with skin, wash immediately with plenty of soapsuds.
Wear suitable protective clothing and gloves.
In case of accident or if you feel unwell, seek medical advice immediately.
Use only in well ventilated area.
This material and / or its container must be disposed of as hazardous waste.

These products are supplied solely for use as temperature indicating paints and as solvent must be applied in accordance with technical specifications.

The data and advice given apply when the product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice.

If you have purchased the produce for a third party for use at work, it is your duty to take all necessary steps to secure that the person handling or using the product is provided with the information in this sheet.

If you are an employer, it is your duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

17. OTHER INFORMATION

17.1 Legal Disclaimer.

The information contained herein is based on the present knowledge and experience of A.P.Racing. It in no way constitutes the users assessment of work place risk as requires by other Health and Safety legislation. A.P.Racing does not, by supplying this information, guarantee or warrant any specific properties or qualities of goods supplied. It is the responsibility of the purchaser to determine whether the goods ordered are fit for any purpose for which they may be required.