



HMG Coatings (South) Ltd
 Faraday Park
 West Portway Ind Est.
 Andover
 Hants
 SP10 3SA
Tel: 01264 356296
Fax: 01264 338123

PRODUCT NAME

Synergy™ JC12 1PK POLYURETHANE

Material Safety Datasheet

1. Identification of the substance/mixture and of the company/undertaking

Product: JC12 1PK POLYURETHANE
Limitations of Use: For Industrial and Professional use only.

Company: **HMG COATINGS SOUTH LTD**
 Faraday Park
 West Portway Ind Est.
 Andover
 Hants
 SP10 3SA

Telephone: 01264 356296
Fax: 01264 338123
Web: www.hmgcoatings.com

2. Hazards identification

Flammable.
 Harmful : may cause lung damage if swallowed
 Repeated exposure may cause skin dryness or cracking
 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 In the environment it is likely to biodegrade slowly
 On the basis of information supplied it is unlikely to be hazardous to man in normal use; it should, however be noted that it is classified as flammable

3. Composition/information on ingredients

COMPOSITION: Modified urethane alkyd with carefully selected pigments and organic solvents.

HAZARDOUS COMPONENTS:

Name	Percentage	CAS	EINECS	Supply Class (*)
White Spirit Based Paint	35 - 55%	64742-82-1	265-185-4	Xn,N R10,51/53,65,66
High Boiling Aromatic Hydrocarbon Additive	0.2 - 2%	064742-95-6	265-199-0	F, R10

(*) For full text, see Section 15

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4. First aid measures

Skin contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners. Obtain medical attention if irritation persists.

Eye contact:

Contact lenses should be removed. Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

Inhalation:

Remove patient to fresh air. Keep the patient warm and at rest. If there is respiratory distress give oxygen. If respiration stops or shows signs of failing, administer artificial respiration. Do not give mouth to mouth. Obtain medical aid urgently.

Ingestion:

Wash out mouth with water and give ½ pint warm water to drink. Obtain medical attention urgently. Keep at rest. Do not induce vomiting. Treatment may be needed for shock or pain.

Other:

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

5. Fire fighting measures

Extinguishing media:

Use carbon dioxide, dry chemical, sand or earth for small fires. For large fires use alcohol type foam or water spray. Do not use water jets. Cool closed containers with water spray.

Fire and Explosion hazards:

Can form explosive mixture with air. Toxic and explosive fumes may be generated in a fire. As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion. Decomposition products may be hazardous to health. Do NOT allow run-off from fire fighting to enter drains or watercourses.

Protective Measures:

Appropriate self-contained breathing apparatus should be worn.

6. Accidental release measures

Personal precautions:

Exclude sources of ignition and ventilate area. Exclude all non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions:

Do NOT allow to enter drains or watercourses. If the product enters drains or sewers, the local water company should be informed immediately. In the case of contamination of streams, rivers or lakes, inform the National Rivers Authority. Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air.

Recovery:

Contain and collect spillage with non-combustible absorbent materials, (e.g. sand, earth, vermiculite, diatomaceous earth), keep moist and place in a suitable unsealed container (evolution of CO₂ !) for several days in a well ventilated area.

Dispose of in accordance with the waste regulations (See section 13). Clean the spill area preferable with a detergent. Avoid the use of solvents.



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7. Handling and storage

Handling:

Keep the container tightly closed. Exclude all sources of heat, sparks and open flame. Non-sparking tools should be used. Electrical equipment should be protected to the appropriate standard. Avoid skin and eye contact. Avoid inhalation of vapour/spray.

For personal protection see Section 8. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Never use pressure to empty. The container is not a pressure vessel.

The accumulation of contaminated rags and of dry overspray, particularly in spray booth filters, may result in spontaneous combustion.

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimize the risks of spontaneous combustion and other fire hazards.

Storage:

Observe label precautions. Store between 5 and 25 degrees C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access.

Containers which are opened should be properly sealed and kept upright to prevent leakage. Always keep in containers made of the same material as the supply container. Store separately from oxidising agents and strongly alkaline and/or acidic materials.

General:

Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. The product may charge electrostatically. Use earthing leads when transferring from one container to another.

Operators should wear anti-static footwear and clothing and floors should be electrically conductive. Good housekeeping standards and regular safe removal of waste materials will minimise risk of spontaneous combustion and other fire hazards.

The Manual Handling Operations Regulation may apply to the handling of containers of this product. Refer to the guide weight if indicated on the container when carrying out assessments.

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/or vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn.

All PPE, including RPE, used to control exposure to hazardous substances must be selected to meet the requirements of the COSHH Regulations.

Respiratory protection:

Air fed respiratory protective equipment should be worn when this product is sprayed if occupational exposure limit is exceeded and engineering controls and methods cannot be reasonably improved.

Hand protection:

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of skin but are not substitutes for full physical protection. Do not apply barrier cream once exposed.

Eye protection:

Eye protection designed to protect against liquid splashes should be worn.

Personal Protective equipment:

Avoid inhaling vapour. Avoid contact with skin and eyes. Wear impervious gloves and/or solvent resistant barrier cream. Wear goggles and dust/vapour mask especially when spraying. Ensure good ventilation.

Other:

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

WORKPLACE EXPOSURE LIMITS

Name	8Hr WEL (TWA)	15 Min WEL	Type	Ref
White Spirit	600 mg/m ³		WEL	EH40/2007
High Boiling Hydrocarbons	150 mg/m ³ (Sk)		WEL	EH40/2007

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9. Physical and chemical properties

APPEARANCE

Free flowing liquid.

ODOUR

Characteristic petrol like odour.

FLASH POINT

32 - 55 °C

LOWER EXPLOSIVE LIMIT

0.6%

VAPOUR DENSITY

Heavier than air.

SPECIFIC GRAVITY

0.95 - 1.40.

SOLUBILITY

Immiscible with water.

R.A.Q. to ventilate to 10% of the LEL (m³/L)

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10. Stability and reactivity

STABILITY

Stable under the recommended storage and handling conditions (See Section 7).

CONDITIONS TO AVOID

Prevent exposure to direct sunlight, heat or sources of ignition and static build-up.

MATERIALS TO AVOID

Keep away from oxidising agents and strongly acidic materials which could liberate highly toxic decomposition fumes.

HAZARDOUS DECOMPOSITION PRODUCTS

In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

11. Toxicological information

GENERAL

Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous system.

Symptoms include : headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in nonallergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

Repeated exposure can cause skin dryness and cracking

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12. Ecological information**GENERAL**

The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. The air pollution control requirements made under the Environmental Protection Act may apply to the use of this product.

It can be expected to biodegrade slowly, and is harmful to aquatic organisms

Slightly toxic to aquatic organisms, but in most systems is unlikely to persist for sufficient time to pose a significant hazard

13. Disposal considerations**DISPOSAL DANGERS**

Wear appropriate protective clothing. Care should be taken to avoid accidental mixing with oxidising agents. A potential toxic and explosive hazard will be created if the spilt liquid enters surface drains.

DISPOSAL METHODS

Transfer any hazardous waste into suitable containers for subsequent disposal. Dispose of any hazardous waste in accordance with waste disposal or water authority regulations. Do not dump indiscriminately.

GENERAL

Do not allow to enter drains or watercourses or dispose of where ground or surface waters may be affected.

Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

When this coating, in its liquid state, as supplied or skinned, becomes a waste, it is categorised as hazardous waste, with code 08 01 11* (List of Wastes)

If mixed with other wastes, the above waste code may not be applicable and the appropriate code should be assigned. For further information please contact your local waste authority.

Using the information provided in this safety data sheet, advice should be obtained from the relevant Waste Regulation Authority on the classification of empty containers.

14. Transport information**PACKAGING (Size & Description)**

5, 20, 200 Litre containers.

TRANSPORT CLASSIFICATION

Flammable.

U.N. NUMBER

1263.

PROPER SHIPPING NAME

Paint

ICAO/IATA/IMDG/IMCO CLASS

3 Marine Pollutant

PACKING GROUP

III.

ADR CLASS

3, Flammable.

TRANSPORT HAZARD SYMBOL

Black flame on red.

EMS

F-E; S-E

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15. Regulatory information (Supply and Labelling)**SUPPLY CLASSIFICATION**

Dangerous to the Environment (N).
 Flammable.

RISK PHRASES

R10 : Flammable.
 R65: Harmful: May cause lung damage if swallowed.
 R66 : Repeated exposure may cause skin dryness or cracking.
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

S2: Keep out of reach of children.
 S16: Keep away from sources of ignition - No smoking.
 S29: Do not empty into drains.
 S33: Take precautionary measures against static discharges.
 S37: Wear suitable gloves.
 S45: In case of accident or if you feel unwell, seek medical advice immediately.
 S51: Use only in well ventilated areas.
 S53: Avoid exposure - obtain special instruction before use.
 S24/25: Avoid contact with skin and eyes.

16. Other information

The information contained in this safety data sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations 3.2
 The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. Further information and relevant advice can be found in :
 The Manual Handling Operations Regulations 1992 (SI 1992:2793)
 The Environmental Protection (Duty of Care) Regulations 1991 (SI 1991:2839)
 The Control of Substances Hazardous to Health Regulations 1988 (SI 1988:1657)
 The Petroleum (Consolidation) Act 1928
 The Highly Flammable Liquids and Liquefied Petroleum Gases Regulations 1972 (SI 1972:917)
 Storage of Flammable Liquids in Containers, HS(G)51
 Storage of packaged Dangerous Substances, HS(G)71

17. Revision Details

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation.
 It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
 As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.