



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

## PRODUCT NAME

**Synergy® DF89 ISO Free Base**

Material Safety Datasheet

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

**Product:** DFE89 ISO Free Base  
**Limitations of Use:** For Professional use only.  
**Product No:** 5008  
**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

**Hazard description:** Not applicable.

### Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotizing effect.

R 10 Flammable.

R 67 Vapours may cause drowsiness and dizziness.

### Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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## 3. Composition/information on ingredients

### Chemical characterization

**Description:** Mixture of substances listed below with nonhazardous additions.

### Dangerous components:

CAS: 123-86-4 EINECS: 204-658-1	Butyl ethanoate	R 10-66-67	50-100%
CAS: 1330-20-7 EINECS: 215-535-7	Xylene (mix)	☒ Xn ☒ Xi; R 10-20/21-38	10-25%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	☒ Xi; R 10-36	2.5-10%

**Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4. First aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Generally the product does not irritate the skin.

**After eye contact:** Rinse opened eye for several minutes under running water.

**After swallowing:** If symptoms persist consult doctor.

## 5. Firefighting measures

### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**Protective equipment:** Put on breathing apparatus



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## 6. Accidental release measures

**Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7. Handling and storage

**Handling:**

**Information for safe handling:** Keep receptacles tightly sealed.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

## 8. Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

**Ingredients with limit values that require monitoring at the workplace:**

**123-86-4 Butyl ethanoate**

WEL Short-term value: 966 mg/m<sup>3</sup>, 200 ppm

Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

**1330-20-7 Xylene (mix)**

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm

Long-term value: 220 mg/m<sup>3</sup>, 50 ppm

Sk; BMGV

**108-65-6 2-methoxy-1-methylethyl acetate**

WEL Short-term value: 548 mg/m<sup>3</sup>, 100 ppm

Long-term value: 274 mg/m<sup>3</sup>, 50 ppm

Sk

**Additional information:** The lists valid during the making were used as basis.

**Personal protective equipment:**

**General protective and hygienic measures:** Wash hands before breaks and at the end of work.

**Respiratory protection:** Not required.

**Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**



Tightly sealed goggles



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## 9. Physical and chemical properties

### General Information

**Form:** Fluid

**Colour:** According to product specification

**Odour:** Characteristic

**Change in condition**

**Melting point/Melting range:** Undetermined.

**Boiling point/Boiling range:** 126 °C

**Flash point:** 24 °C

**Ignition temperature:** 370 °C

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**Explosion limits:**

**Lower:** 1.1 Vol %

**Upper:** 10.4 Vol %

**Vapour pressure at 20 °C:** 10.7 hPa

**Density at 20 °C:** 0.956 g/cm<sup>3</sup>

**Solubility in / Miscibility with water:** NOT MISCIBLE

**Solvent content:**

**Organic solvents:** 64.1 %

**Solids content:** 35.9 %

## 10. Stability and reactivity

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Materials to be avoided:**

**Dangerous reactions** No dangerous reactions known.

**Dangerous decomposition products:** No dangerous decomposition products known.

## 11. Toxicological information

**Acute toxicity:**

**Primary irritant effect:**

**on the skin:** No irritant effect.

**on the eye:** No irritating effect..

**Sensitization:** No sensitizing effects known.

## 12. Ecological information

**Additional ecological information:**

**General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

## 13. Disposal considerations

**Product:**

**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.



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## 14. Transport information

### Land transport ADR/RID (cross-border)

		
<b>ADR/RID class:</b>		3 Flammable liquids.
<b>Danger code (Kemler):</b>		30
<b>UN-Number:</b>		1263
<b>Packaging group:</b>		III
<b>Hazard label</b>		3
<b>Description of goods:</b>		1263 PAINT (not viscous)
<b>Maritime transport IMDG:</b>		

<b>IMDG Class:</b>		3
<b>UN Number:</b>		1263
<b>Label</b>		3
<b>Packaging group:</b>		III
<b>EMS Number:</b>		F-E,S-E
<b>Marine pollutant:</b>		No
<b>Proper shipping name:</b>		PAINT
<b>Air transport ICAO-TI and IATA-DGR:</b>		

<b>ICAO/IATA Class:</b>		3
<b>UN/ID Number:</b>		1263
<b>Label</b>		3
<b>Packaging group:</b>		III
<b>Proper shipping name:</b>		PAINT

## 15. Regulatory information (Supply and Labelling)

### Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

### Risk phrases:

10 Flammable.  
 67 Vapours may cause drowsiness and dizziness.

### Safety phrases:

25 Avoid contact with eyes.  
 43 In case of fire, use water or powdered extinguishing agent.  
 60 This material and its container must be disposed of as hazardous waste.

### National regulations:

### Technical instructions (air):

Class	Share in %
NK	64.1

**Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

## 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant R-phrases

10 Flammable.  
 20/21 Harmful by inhalation and in contact with skin.  
 36 Irritating to eyes.  
 38 Irritating to skin.  
 66 Repeated exposure may cause skin dryness or cracking.  
 67 Vapours may cause drowsiness and dizziness.

**Department issuing MSDS:** Product safety department: LABORATORY

**Contact:** Health & Safety Officer