

**Paraflect Solar Reflective Coating**

Product Ref: (DsC9-0209)

Issue No: 04

As required under the Chemicals (Hazard & Packaging) Regulations 1993.

**PRODUCT AND IDENTIFICATION**

Product Name: Paraflect Solar Reflective Coating.  
Intended Use: Formulated to provide adhesion to bitumen- based systems with no bleed through.  
Emergency Telephone: 020 8420 6488  
Supplier: Langley Waterproofing Systems Ltd

**COMPOSITION / INFORMATION ON INGREDIENTS**

Hazardous components	%	CAS	Hazard
Ethanol	40-60	6417-5	F:R11
Methanol	<5	67-56-1	F:T:R11, 23/25
Dibutyl phthalate	<2	84-74-2	Xa:R62/63

**HAZARD IDENTIFICATION: PHYSICAL & ENVIRONMENTAL**

Highly flammable liquid. Harmful by inhalation and if swallowed.

**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 person to fresh air. Keep the person warm and at rest. Persons who have inhaled the substance may not exhibit symptoms immediately.

Eye contact: Remove glasses / contact lenses. Irrigate eye with copious amounts of water for 10 minutes. If irritation persists, seek medical help.

Skin contact: Clean skin with proprietary cleaner and wash with soap and water. Remove heavily soiled clothing.

Ingestion: Do not induce vomiting - seek medical help.

**FIRE FIGHTING MEASURES**

Extinguishing media: Use carbon dioxide, foam, sand, earth or water fog.

Not suitable: Water jet.

Fire hazard: Fire produces dense black smoke containing hazardous products of combustion. Exposure to decomposition products is hazardous to health. Appropriate self-contained breathing apparatus is required. Keep closed containers cool. Do not allow run-off from fire fighting to enter drains or watercourses.

**ACCIDENTAL RELEASE MEASURES**

Eliminate all sources of ignition and ventilate the area. Exclude all non-essential personnel. Avoid breathing vapours - refer to protective measures listed in sections 7 & 8. Contain and collect all spillages using sand, earth or other non-combustible materials. Dispose of according to waste regulations (see section 13). Do not allow spillages to enter drains or watercourses. Should the product enter the drains, advise the local water company. If a watercourse is contaminated, inform the N.R.A. immediately.

**Langley Waterproofing Systems Limited**

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Tel: 01327 704778 Fax: 01327 704845 www.langley.co.uk

**Paraflect Solar Reflective Coating**Product Ref: (DsC9-0209)  
Issue No: 04**HANDLING & STORAGE**

**Handling:** Vapours are heavier than air and may spread along floors. They form explosive mixtures with air. Prevent build-up of concentration by good ventilation. Exclude all sources of ignition from work area. Ensure, when not in use, that all container lids are replaced. Keep out of areas of welding (i.e. sparks and heat). Avoid contact with skin and eyes. Do not breathe vapour. No smoking. Observe good handling practice.

**Storage:** Observe the principles contained in the "Storage of Flammable Liquids in Containers" by the H.S.E. Store between 5 & 25 deg. C in a dry and well-ventilated lock-up store away from all sources of ignition and direct sunlight. "No smoking" and "Flammable" signs should be prominent and clearly seen. Prevent unauthorised entry. Opened containers should be correctly resealed. Do not store with acids, alkalis and oxidising agents.

**EXPOSURE CONTROL / PERSONAL PROTECTION**

**Engineering measures:** Provide adequate ventilation by the use of local exhaust ventilation and good general extraction. In areas highly confined for application, the use of air-fed masks is necessary.

**Occupational Exposure Limits (U.K. H.S.E 40)**

Ethanol	1900 mg/m <sup>2</sup> (100 ppm) 8 hr TWA
Methanol/cum	260 mg/m <sup>2</sup> (200 ppm) 8 hr TWA
Dibutyl phthalate	333 mg/m <sup>2</sup> (250 ppm) 15 min STEL
	5 mg/m <sup>2</sup> 8 hr TWA
	10 mg/m <sup>2</sup> , 15 min STEL

**Personal Protective Equipment**

<b>Respiratory systems</b>	If exposure to the above solvents cannot be controlled, air-fed masks must be worn.
<b>Hands:</b>	Where skin is exposed, the use of barrier cream is advised as an additional measure to the main use of gloves, which should be of pva, neoprene or nitrile rubber.
<b>Eyes:</b>	Wear suitable eye protection to prevent splashes entering the eye; either a full-face visor or side-shielded goggles.
<b>Body protection:</b>	Should be by overalls of cotton or plastic. Heavy soiling of the overalls must necessitate their removal and replacement. Ensure that all contaminated skin is cleansed with a proprietary cleaner, followed by washing with soap and water.

**PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	White or Grey liquid
Odour	Alcohol
Solubility in water	Immiscible
Solubility	Good in most common solvents
Boiling range	80°C Approx
Vapour pressure	0.05 KPA @ 20°C
Auto ignition temperature	420°C
Explosive limits	3.3 - 19%
Freezing point	N/A
p/H	N/A
Density	1.12
Specific gravity	0.97 Approx.
Vapour density (Air = 1)	>1
Flashpoint	23°C
Volatile content by weight	53%

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**STABILITY AND REACTIVITY**

Stable under normal conditions relating to handling and storage. Not reactive under normal temperature and pressure conditions. Avoid high temperatures and sources of ignition. Toxic fumes, including carbon monoxide, may be generated.

**TOXICOLOGICAL INFORMATION**

There are no toxicological studies on the product so no data is available. However, the solvents used in the product can give rise to harmful effects on short-term and long-term exposure, such as irritation to the mucous membrane and respiratory system, also adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, nausea, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repetition of extended contact with the product on the skin can lead to the removal of the natural fats from the skin, which can result in dermatitis and adsorption through the skin. Splashes in the eye will cause severe irritation and could cause temporary blindness and even possible damage.

**ECOLOGICAL INFORMATION**

There is no available data on the product itself. The product should not be allowed to enter drains or watercourses, nor should it be deposited on the ground where it could affect ground or surface waters. The air pollution / integrated pollution control requirements made under the environmental protection act may apply to this product.

**DISPOSAL CONSIDERATIONS**

Do not allow the product to enter watercourses or drains or dispose of where ground or surface waters may be affected. All waste material, including empty containers, are controlled wastes and should be disposed of in accordance with the regulations under The Control of Pollution Act. Using information provided in this data sheet, advice should be obtained from the waste regulation authority on whether the special regulations apply.

**TRANSPORT INFORMATION**

Transport requirements in accordance with ADR for road, RID for rail, IMDG for sea and ICAO-IATA for air

UN Number:	UN1866	Proper shipping name	Paint related material
IMDG class:	3.3	Packaging group:	II
IMO	Resin solution flammable	Marine pollutant:	
ADR / RID:	1866 resin solution	ADR / RID item no:	3.5b
IATO:	Resin solution flammable	Label name:	Flammable liquid

**REGULATORY INFORMATION**

The product is classified and labelled for the supply in accordance with the Chemicals (Hazard Information and Packaging) Regulations 1993 as follows:

**Hazard Classification**

Symbol: Flammable and irritant  
 Risk phrase: R11 Highly flammable  
 R20/22 Harmful by inhalation and if swallowed

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Safety Phrases: S9 Keep container in a well ventilated area  
S16 Keep away from sources of ignition - no smoking  
S24 Avoid contact with skin  
S51 Use only in well ventilated areas  
S62 If swallowed, do not induce vomiting but seek medical advice and show label or container

### 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 1993. The products should not be used for purposes other than those shown in section 1. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements or relevant legislation are complied with. The information contained in this data sheet is based on the present state of knowledge and current national legislation (U.K.). It provides guidance on health, safety and environmental aspects of the product and, as such, should not be construed as any guarantee of technical performance or suitability for particular applications.

This data sheet cancels and supersedes all previous editions. The information contained in this data sheet is based on current knowledge and experience. The purpose of this data sheet is to describe the specific product in terms of safety requirements. It does not constitute a warranty with regard to the product's properties and/or performance in use.

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