

# MATERIAL SAFETY DATA SHEET

834 0599

## Balcony Coat



### SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

Product Name: **BALCONY COAT**  
 Company Name: Polycote UK  
 Centre Point • Wolseley Road  
 Woburn Road Industrial Estate  
 Kempston • Beds MK42 7EF  
 Telephone Number: 01234 846400

### SECTION 2: HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP]:  
 Flam. Liq. 3 / H226; Skin Sens. 1 / H317; STOT SE 3 / H335; Aquatic Chronic 3 / H412.

Hazard pictograms:



Signal word: Warning

Hazard statements:

- H226 Flammable liquid and vapour.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P370 + P378 In case of fire: Use Extinguishing powder or sand to extinguish.
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P260 Do not breathe dust/fume/gas/mist/ vapours/spray.

Contains: 1,6-hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate  
 isophorone diisocyanate oligomers  
 aliphatic Polyisocyanates

Supplemental Hazard information (EU):

- EUH066 Repeated exposure may cause skin dryness or cracking.
- EUH208 Contains 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; hexahydromethylphthalic anhydride; 2,2,4-trimethylpentane; 1,6-hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate; Dibutyltin dilaurate; isophorone diisocyanate oligomers; aliphatic Polyisocyanates. May produce an allergic reaction.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name:

EC No:	CAS No:	Classification	Percent
<b>CYCLOHEXANONE</b>			
203-631-1	108-94-1	Acute Tox. 3 H331; Eye Irrit. 2 H319; STOT SE 3 H335; Skin Irrit. 2 H315; Resp. Sens. 1 H334; Skin Sens. 1 H317; Aquatic Chronic 2 H411	0,1 - 1%
<b>3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE</b>			
223-861-6	4098-71-9	Acute Tox. 3 H331; Eye Irrit. 2 H319; STOT SE 3 H335; Skin Irrit. 2 H315; Resp. Sens. 1 H334; Skin Sens. 1 H317; Aquatic Chronic 2 H411	0,1 - 1%

<b>2-METHOXY-1-METHYLETHYL ACETATE</b>			
203-603-9	108-65-6	Flam. Liq. 3 H226	10 - 25%
<b>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT</b>			
265-149-8	64742-47-8	Asp. Tox. 1 H304	0,1 - 1%
<b>SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM.</b>			
265-199-0	64742-95-6	Flam. Liq. 3 H226; Asp. Tox. 1 H304; STOT SE 3 H335; STOT SE 3 H336; Aquatic Chronic 2 H411	25 - 50%
<b>HEXAHYDROMETHYLPHTHALIC ANHYDRIDE</b>			
247-094-1	25550-51-0	Eye Dam. 1 H318; Resp. Sens. 1 H334; Skin Sens. 1 H317	0,1 - 1%
<b>2,2,4-TRIMETHYLPENTANE</b>			
208-759-1	540-84-1	Flam. Liq. 2 H225; Asp. Tox. 1 H304; Skin Irrit. 2 H315; STOT SE 3 H336; Aquatic Acute 1 H400; Aquatic Chronic 1 H410	<0,1%
<b>1,6-HEXANEDIYL-BIS(2-(2-(1-ETHYLPENTYL)-3-OXAZOLIDINYL)ETHYL)CARBAMATE</b>			
411-700-4	140921-24-0	Skin Sens. 1 H317	25 - 50%
<b>DIBUTYL TIN DILAURATE</b>			
201-039-8	77-58-7	Acute Tox. 4 H302; Skin Irrit. 2 H315; Eye Irrit. 2 H319; Muta. 2 H341; Repr. 1B H360; Aquatic Acute 1 H400; STOT RE 1 H372; Aquatic Chronic 1 H410	<0,1%
<b>ISOPHORONE DIISOCYANATE OLIGOMERS</b>			
	53880-05-0	Skin Sens. 1 H317	25 - 50%
<b>ALIPHATIC POLYISOCYANATES</b>			
-	-	Skin Sens. 1B H317	50 - 75%

### SECTION 4: FIRST AID MEASURES

- General:** In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.
- Inhalation:** Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.
- Skin contact:** Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.
- Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.
- Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

**Most important symptoms and effects, both acute and delayed**

In all cases of doubt, or when symptoms persist, seek medical advice.

### SECTION 5: FIRE FIGHTING MEASURES

- Extinguishing media:** Alcohol resistant foam, carbon dioxide, Powder, spray mist, (water).
- Unsuitable media:** Strong water jet.
- Exposure hazards:** Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.
- Advice for firefighters:** Provide a conveniently located respiratory protective device.
- Additional information:** Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal precautions:	Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.
Environmental precautions:	Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
Methods for cleaning up:	Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Use appropriate container to avoid environmental contamination. Fouled surfaces must be immediately cleaned with suitable solvents, Useable as such (flammable): water 45 vol.% ethanol or i-propanol 50 vol. % ammonia solution (density= 0.88) 5 vol.% Alternative (non-flammable): sodium carbonate 5 vol.% water 95 vol.%. Take up spilled residuals with the same agent and leave them for a few days in unclosed containers until there is no further reaction. Then, close the containers and dispose of them in accordance with the regulations for waste removal (refer to Chapter 13).

**SECTION 7: HANDLING AND STORAGE**

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

Handling:	Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Be careful when opening used containers (excess pressure). Precautionary measures should be taken in order to reduce strain from humidity or water: CO <sub>2</sub> is formed which may produce excess pressure in closed containers. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure – no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.
Precautions against fire and explosion:	Vapours are heavier than air. Vapours form explosive mixtures with air.
Storage:	Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSIVO). Keep container tightly closed. Do not empty containers with pressure – no

pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Keep away from strongly acidic and alkaline materials as well as oxidizers. Keep away from amines, alcohols and water.

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 10 °C and 25 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

Occupational exposure limit values:

2-methoxy-1-methylethyl acetate

TWA: 274 mg/m<sup>3</sup>; 50 ppm STEL: 548 mg/m<sup>3</sup>; 100 ppm

TWA: 274 mg/m<sup>3</sup>; 50 ppm STEL: 548 mg/m<sup>3</sup>; 100 ppm

Additional information

TWA : long-term occupational exposure limit value.

STEL : short-term occupational exposure limit value.

Ceiling : peak limitation.

DNEL:

cyclohexanone

DNEL short-term oral (acute), Workers:

DNEL long-term inhalative (local), Workers: 40 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 40 mg/m<sup>3</sup>

2-methoxy-1-methylethyl acetate

DNEL short-term oral (acute), Workers:

DNEL long-term inhalative (systemic), Workers: 275 mg/m<sup>3</sup>

Exposure controls:

Provide good ventilation. This can be achieved with local or room suction. When spraying, wear self-contained breathing apparatus. For other tasks a suitable respiratory system must be used, if local and room suction is not sufficient for keeping aerosol and solvent vapour concentration below the exposure limit values. (refer to Personal protection equipment.)

Respiratory protection:

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number. Suitable respiratory protection apparatus: Kombinationsfilter A2P2 / EN 14387. Self-contained respirator (breathing apparatus) (DIN EN 133).

Hand protection:

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber) Thickness of the glove material >=0,5 mm; Penetration time of glove material depending on intensity and duration of exposure to skin. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Barrier creams can help protecting exposed skin areas. In no circumstances should they be used after contact.

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**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION – Cont.**

Eye protection:	Wear closely fitting protective glasses in case of splashes.
Protective clothing:	Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.
Protective measures:	After contact clean skin thoroughly with water and soap or use appropriate cleanser.
Environmental:	Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

State:	Liquid
Colour:	Transparent
Odour:	Characteristic odour
Flash point:	38°C
Relative density:	1 g/cm <sup>3</sup>
Solubility:	Insoluble
Solid content (%):	66,00 Wt %

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity:	Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure.
Chemical stability:	Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.
Hazardous reactions:	Amines and alcohols cause uncontrollable exothermic reactions. Reacts with water, forming carbon dioxide, producing bursting hazard in closed containers due to build-up of pressure. In contact with water releases flammable gases. (H261).
Conditions to avoid:	Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.
Haz. decomp. products:	Gases / vapours, highly flammable.

**SECTION 11: TOXICOLOGICAL INFORMATION****Acute toxicity:**

Solvent naphtha (petroleum), light arom.	oral, LD50, Rat: > 2000 mg/kg
	dermal, LD50, Rat: > 2000 mg/kg
	inhalative (vapours), LC50, Rat: > 10 mg/L (4 h)
1,6-hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	oral, LD50, Rat: > 2000 mg/kg
	dermal, LD50, Rat: > 2000 mg/kg
isophorone diisocyanate oligomers	oral, LD50, Rat:
aliphatic Polyisocyanates	oral, LD50, Rat:
<b>Respiratory or skin sensitisation:</b>	
E-1K PU-Super Flex farblos	Skin:
1,6-hexanediy-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate	Skin:
isophorone diisocyanate oligomers	Skin:

aliphatic Polyisocyanates

Skin:

**Specific target organ toxicity**

Solvent naphtha (petroleum), light arom.

Specific target organ toxicity (single exposure), Irritation:

Specific target organ toxicity (single exposure), drowsiness:

**Practical experience/human evidence**

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**SECTION 12: ECOLOGICAL INFORMATION**

Overall evaluation:

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

**Ecotoxicity:**

Solvent naphtha (petroleum), light arom.

Algae toxicity, ErC50: 1 - 10 mg/L

**Bioaccumulative potential**

cyclohexanone

Distribution coefficient (n-octanol / water) (log P O/W): 0,86

2-methoxy-1-methylethyl acetate

Distribution coefficient (n-octanol / water) (log P O/W): 0,43

**Results of PBT assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Disposal operations:	Do not allow to enter into surface water or drains. Handle contaminated packages in the same way as the substance itself. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.
EWC Waste code:	080111 – waste paint and varnish containing organic solvents or other dangerous substances.
Disposal of packaging:	Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: TRANSPORT INFORMATION**

UN Number:	UN1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light, aromatic)
Transport hazard class:	3
Packing group:	III
Tunnel category:	D/E
EmS-No:	F-E, S-E

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**SECTION 15: REGULATORY INFORMATION****EU legislation:**

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline):  
according to EU-regulation 2004/42/EC (appendix II)  
EU limit value for this product (cat. (Cat. A/i)): 600 g/l (2007)/500 g/l (2010).

This product contains max 500,000 g/l VOC.

**National regulations:**

Restrictions of occupation:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Observe restrictions to employment for juvenils according to the 'juvenils work protection guideline' (94/33/EC).

**SECTION 16: OTHER INFORMATION**

Hazard phrases used

in s.2 and s.3: H225: Highly flammable liquid and vapour.  
H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H331: Toxic if inhaled.  
H332: Harmful if inhaled.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
M341: Suspected of causing genetic defects (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).  
H360: May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).  
H372: Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.

All the foregoing information should be regarded as being applicable to the uncured mixed product as well as to the individual components. This material may form part of a multi component pack, and is supplied in the correct proportions for that pack. Please check all of the product labels to ensure that the correct components and pack sizes are being used. Select and use appropriate pack sizes to minimise waste and operator exposure, do not split packs. Use in batch order.

The Safety Data above is applicable to the product only as used according to the purposes and methods described on the relevant Technical Data Sheet, available from Polycote UK on request. The information above is based on our present knowledge and is believed to be correct but does not purport to be all inclusive and should only be used as a guide. No warranty is implied with respect to the specification of the product. It is intended to describe the product solely in terms of its safety requirements and relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. This data does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation, nor is it a sales specification or indication of suitability for any particular use. The user must satisfy himself as to the suitability of the product for his purpose. No legally valid contractual relationship is established by the above data, and Polycote UK shall not be held liable for any damage resulting from handling or from contact with the above product.

Date of Issue: June 2017

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