

Material Safety Data Sheet

Date: 05/04/2013, Revision/Version 2

1. Product and company identification

Product or preparation name: Unicoatings 2k-Anti Graffiti **Coating (Base)**
 Product use: Two-component paint
 Supplier: Unicoatings Australia
 PO Box 75
 Scarborough Qld 4020
 Phone: (07) 3203 7502
 Mobile / Emergency Telephone: 0412 211 725

2. Composition/Information on ingredients

EINECS	CAS	Description	Strength	Unit Classif	R phrases
204-658-1	123-86-4	n-Butyl acetate	15 – 25 %		R10/66/67
274-724-2	70657-70-4	2-Methoxypropyl acetate	0,2 - 0,5 %	Xi	R10/37/61
200-751-6	71-36-3	n-Butanol (Butan-1-ol)	5 – 8 %	Xn Xi	R 10 R 22 R 37/38-4167
255-437-1	041556-26-7	Sebacato di bis (1,2,2,6,6-pentametil-4-piperidile)	-0,25 – 1 %	N	R 43
400-830-7	Polymer	mixed from: D <input checked="" type="checkbox"/> (3-(2H-Benzotriazol-2-yl)- 5- tert-butyl-4-hydroxyphenyl) propionyl <input type="checkbox"/> hydroxypoly(oxyethylene) <input type="checkbox"/> (3-(2H-Benzotriazol-2-yl)- 5-tert-butyl-4-hydroxyphenyl) propionyl- <input type="checkbox"/> (3-(2H-benzotriazol-2-yl)-5-tert-butyl- hydroxyphenyl) propionyloxypoly(oxyethylene).	1 – 3,0 %	N	43 51-53

For the wording of the R phrases, see point 16.

3. Possible hazards

This preparation irritates the eyes and is flammable. Repeated contact can lead to rough or chapped skin. Leaking product damages waterways through oxygen consumption and general pollution level.

4. First Aid Measures

General

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

Never give anything by mouth to an unconscious person.

Inhalation:

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. Consult a physician.

Skin Contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Do NOT use solvents or thinners.

Eye contact:

If eyelids have been splashed, rinse thoroughly under running water and consult an eye specialist.

Ingestion:

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5. Firefighting measures

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Do not use – water jet.

Note; Fire will produce dense black smoke. Decomposition products may be hazardous to health. Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

6. Accidental release measures

Remove sources of ignition; do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit before re-entering.

Ventilate the area to avoid breathing vapours. Take the personal protective measures listed in Section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to relevant State and Federal regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents. Do not allow spills to enter drains or watercourses. If drains, sewers, streams or lakes are contaminated, inform the relevant Environment Protection Agency.

Empty containers may contain product residues, including flammable or explosive vapours. Do not cut, puncture or weld on or near containers. All labels warnings must be observed until the containers have been cleaned or reconditioned.

7. Handling and storage

Handling:

This product contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

In Storage

Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

In Use

Avoid skin and eye contact. Avoid inhalation of vapours and spray mists. Observe label precautions. Use personal protection as shown in section 8.

Smoking, eating and drinking should be prohibited in all preparation and application areas. Never use pressure to empty a container; containers are not pressure vessels.

All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application. All electrical equipment (including torches) should be protected (Ex) to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static (at least 60% natural fibre) and antistatic footwear; floors should be of conducting type.

Storage

Store in a well ventilated, dry place away from sources of heat and direct sunlight.

Store on concrete or other impervious floor, preferable with bunding to contain any spillage. Do not stack more than 3 pallets high.

Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material.

Prevent unauthorized access.

The requirements of AS/NZS1940 (Storage and Handling of Flammable and Combustible Liquids) apply to all products with a Flash Point less than 61C. Refer to this standard and to state Dangerous Goods Storage and Handling regulations.

8. Exposure controls and personal protection

Engineering Measures

Provide adequate ventilation. Where reasonable 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 any vapour below occupational exposure limits suitable respiratory protection must be worn.

Exposure Limits

From Safework Australia's Hazardous Substance Information System (HSIS) For detailed information refer to the HSIS web site (<http://hsis.ascc.gov.au>).

Additional information for the creation of technical installation or plant: See point 7, 'Handling and Storage'.

Components with workplace-related limits to be monitored (TRGS 900 Germany):

Peak limiting

CAS no	Designation of material	Type	Value / Unit	Excess factor	Remarks
123-86-4	n-Butyl acetate	MAK	100 ppm	=1=	Y
71-36-3	Butan-1-ol	MAK	100 ppm	=1=	Y

Components with workplace-related limits to be monitored (TRGS 903 Germany):

CAS	Name of material	Type	Value/Unit	Parameter	Investigation material
71-36-3	Butan-1-ol	BAT	2mg/l	Creatinine Butan-1-ol	U

Personal Protection Equipment:

General protection and hygiene measures:

Remove soiled soaked clothing immediately, avoid contact with eyes and skin.

Do not eat, drink or smoke while working. Do not inhale vapours and combustion gases.

Respiratory protection:

In confined, insufficiently ventilated spaces use respiratory protection equipment that is independent of the circulating air.

Hand protection:

Wear protective gloves in accordance with EN 374-2 made of rubber or PVC.

Eye protection:

Wear tight fitting protective glasses

Body protection:

Use protective clothing.

Chemicals classified as hazardous by Safework Australia may have a notification alongside the exposure standard. If such a notification is necessary, it will appear in the far right hand column. The legend is as follows:

(P) Peak exposure limit

(R) Suppliers Recommended Limit

(Sk) There is a risk of absorption through unbroken skin (Sen) Sensitiser

(Cat1) Category 1 – established human carcinogen

(Cat2) Category 2 – probable human carcinogen

(Cat3) Category 3 – Substances suspected of having carcinogenic potential.

There is no biological limit allocated.

Personal Protection

Respiratory Protection

When concentrations exceed the exposure limits shown above workers must wear appropriate respirators approved in accordance AS/NZS1716. Provision of other controls such as exhaust ventilation should be considered if practical.

Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash or liquids. Eyewear should comply with AS/NZS1337.

Wear a full face shield if mixing or pouring operations pose a risk of splashes. An eye wash station is suggested as a good work place practice

Hand Protection

Gloves of an appropriate material should be worn during mixing and application. Nitrile or PVC are generally recommended for products containing solvents.

Skin Protection

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.

9. Physical and chemical properties

Appearance

Physical state: liquid Colour: milky white Odour: ester-like

Safety-related data

Melting point/Melting ranges:	Not available.
Boiling point/boiling range:	Not available.
Flashpoint:	25,0°C
pH:	Not applicable.
Flammability:	Flammable.
Autoflammability:	Not applicable.
Oxidising properties:	Not applicable.
Explosion danger:	Applies to vapour-air mixture
Explosion limits:	lower: 1,4.Vol.-% (solvent) upper: 11,3 Vol.-% (solvent)
Density:	Not available.
Solubility in H2O: Vapour pressure	Practically insoluble. Not available.
Distribution coefficient:	No available
Solvent separation tests:	Not available.
Viscosity:	20s (4 mm DIN beaker)
Solvent content:	20 – 25 %
Evaporation number:	Not available.

10. Stability and Reactivity

Chemical stability

Stable under recommended storage and handling conditions (see section 7).

Conditions to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

Incompatible materials

Strong acids, bases, oxidizing agents.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

Hazardous reactions None.

11. Toxicological information

There are no data available on the product itself.

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidney, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashed of liquid in the eyes may cause irritation and soreness with possible reversible damage.

12. Ecological information

There are no data available on the product itself.

The product should not be allowed to enter drains or water courses.

13. Waste disposal information

Do not allow into drains or water courses. Wastes and empty containers should be disposed of in accordance with State and Federal regulations.

Using information provided in this data sheet advice should be obtained from the local Waste Regulation Authority as to whether special waste regulations apply.

14. Transport information

Road/rail (ADR/RID), Inland Waterways (ADNR):

Class: 3 UN: 1263 PG.: III Hazard label no.: 3 Proper shipping name: Paint

Additional information: Special provision 640 E.

Seagoing vessel (IMDG Code):

Class: 3 UN: 1263 PG.: III

EMS no. 3-05 MFAG: 310, 313

Marine pollutant: Not applicable. Correct technical name: Paint (25°C c.c.).

Aircraft (ICAO-TI/IATA-DGR):

Class: 3 UN ID no. 1263 PG: III

Proper shipping name: Paint.

15. Regulatory information

Marking in accordance with EC guidelines

Symbol and hazard labelling of the product:

Xi - irritant.

Labelling of hazardous components:

Mixed from:	D	<input checked="" type="checkbox"/> (3-(2H-Benzotriazol-2-yl)-tert-butyl-4-hydroxyphenyl) propionyl	N	51-53
		<input type="checkbox"/> hydroxypoly(oxyethylene)		
		<input type="checkbox"/> (3-(2H-Benzotriazol-2-yl)-5-tert-butyl-4-hydroxy phenyl) propionyl-		
		<input type="checkbox"/> (3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionyloxypoly(oxyethylene).		

Risk phrases:

43	May cause sensitisation by skin contact
36	Irritating to eyes
67	Vapours may cause drowsiness and dizziness
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in aquatic environment
10	Flammable

S phrases

23	Do not breathe vapour/aerosol
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39	When working wear suitable protective clothing, gloves, and eye protection/face protection
51	Use only in well-ventilated areas.
61	Avoid releasing to the environment. Refer for advice to special instructions/safety data sheet

National regulations

Occupational restrictions: Yes

Duty of safekeeping in accordance with § 24 Hazardous Materials Ordinance: Yes

Naming in Appendix I of the Ordinance on Incidents: Comply with threshold quantities for materials group 6.

Technical Instructions Air (2002): Comply with limits for organic materials in accordance with 5.2.5, and for varnish particles in accordance with 5.4.5.

Water Danger/Protection class: WGK 2

Other regulations, limits *and* Prohibition Regulations

Comply with Leaflets M 004 and M 017 of the 'BG Chemie'

16. Other information

The information on this MSDS is based upon the present state of our knowledge and on current State and Federal laws.

The product should not be used for purposes other than shown in the product data sheet without first obtaining written advice.

It is always the responsibility of the user to take all necessary steps to meet the demands of applicable legislation.

Listing of the Risk phrases (R phrases) in accordance with points 2 and 3:

10	Flammable
22	Harmful if swallowed
36	Irritating to eyes
37	Irritating to respiratory system
38	Irritating to skin
41	Risk of serious damage to eyes
43	May cause sensitization by skin contact
50	Very toxic to aquatic organisms
51	Toxic to aquatic organisms
52	Harmful to aquatic organisms
53	May cause long-term adverse effects in the aquatic environment
66	Repeated exposure may cause skin dryness or cracking
67	Vapours may cause drowsiness and dizziness

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