



Data Sheet: easy-on+ Anti Bacterial Paint

Anti bacterial coating combining two leading products - easy-on™ and Akacid® plus.

Akacid® plus biocide provides continuous protection from bacterial infection, MRSA, E. Coli, C. Diff and other HAI's as well as fungal growth including ESBL- producing Gram- negatives.

Akacid® plus is a member of the polymeric guanidine family of disinfectants developed to enhance antimicrobial activity with significantly less toxicity.

Physical data

Colour	Opaque cream
Finish	Clear sheen
Substrates	Concrete, tile, mortar, existing coatings, plaster, brick and metals, timber, etc.
Components	2 (resin + cure)
Curing mechanism	Chemical reaction between components
Dry film thickness	25 - 50 microns
Number of coats	1 (usually)
Moisture permeability	35gm/ m ² /24 hours
SG of mixed product	1.12 kg/L
VOC content	<8% weight
Calculated coverage	33 m ² per litre @ 25 microns
Practical coverage	9 - 33 m ²

Dependant upon application losses, surface irregularities, porosity, waste, etc

Application By brush, roller, HVLP or conventional spray equipment.

Environmental conditions	Air temperature	5°C to 50°C
	Surface temperature	5°C to 45°C
	Material temperature	5°C to 40°C
	Relative humidity	>40%

To prevent condensation during application, surface temperature must be at least 3°C above dew point.

Pot life	4 hours at 20°C (depend on temperature and quantities mixed.)
Touch dry	4 hours @ 20°C (@25 microns dft) (time depends on climatic conditions and coating thickness)
Full chemical cure****	7 days

Do not attempt to clean the coating with any chemical until it has fully cured (7 days at 20°C)

Storage life	12 months in cool, dry place in sealed containers
Equipment Cleaner	Xylene or Gun Cleaner
Inflammable	no
Flash point	Resin > 97°C Cure > 96°C

Packaging

Resin	3,750 l in 5 litre can
Cure	0,750 ml in 1 litre can

Publications (copies available on request)

Biomedical Research Centre July 2009: Testing easy-on+ augmented with Akacid^{®plus}

Toxicon Sept 2006: Ultrastructural evidences of growth inhibitory effects of Akacid^{®plus}

Journal of Antimicrobial Chemotherapy June 2006: antimicrobial & toxicological profile of Akacid^{®plus}

Applied and Environmental Microbiology June 2006: Validation of Akacid^{®plus} as a room disinfectant

Journal of Hospital Infection Nov. 2005: In vitro antimicrobial activity of polymeric guanidine Akacid^{®plus}

European Society of Clinical Microbiology & Infectious Diseases April 2006: Room disinfection using Akacid^{®plus}

Antimicrobial Agents and Chemotherapy, Sept 2007: In Vivo Activity of Akacid^{®plus} in experimental skin infection with MRSA



urbanhygiene.

In the business of keeping things clean

Sky Business Park, Robin Hood International Airport,
Doncaster, South Yorkshire, DN9 3GN England

T: +44 (0) 1302 623193 F: +44 (0) 1302 623167

E: enquiries@urbanhygiene.com

www.urbanhygiene.com



Benefits: easy-on+ Anti Bacterial Paint

Infection control paint

A long lasting alternative to silver ion technology

Incorporating Akacid^{®plus} biocide

(Contains Guanidium chloride molecules to disrupt cell surfaces of bacteria)

• Outstanding Characteristics!

Proven easy-on™ technology – used worldwide

Eradicates pathogenic organisms

Does not support colonization of bacteria.

MRSA related bacteria eradicated in 1 – 24 hours. ~97 – 99.7% reduction without additional cleaning.

In tests, Akacid solution eliminated all hospital pathogens within 340 min.

Coated surfaces do not support spores or fungal growth.

• Where to use!

Wherever infection control is required • Hospitals • Clinics • Health Care Buildings • Surgeries • Dental Practices • Veterinary Practices • Zoo's • Laboratories • Pharmaceutical areas • Food Industry • etc.....

• Surfaces!

Suitable for almost any clean and dry building and finishing material or surface.

Frequently used to overcoat and upgrade existing paint finishes to reduce redecoration cycles.

• Cleanliness!

Easily cleaned with a wide range of products. Biocide works even after multiple cleaning steps.

• Simple!

One coat - easy application – quick drying - permanent durable finish – up to 22 years protection.

• Characteristics!

Durable chemical resistant finish with incredible abrasion resistance.

Unaffected by common cleaning chemicals and solvents.

• Cost Benefit!

Extends period between redecoration by years – saves money and reduces disruption

• Safe!

Safe during and after application - no residual smell or toxic fumes. User friendly and compliant with environmental legislation.

• Effective!

Akacid^{®plus} – accepted biocide according to EU Commission, Regulation 1896/2000.

Resistant to growth of MRSA, E Coli, Salmonella, Listeria etc

Antimicrobial activity against pathogenic bacteria, spores and fungi

• Tested:

- Department of Internal Medicine, University of Vienna
- AKA Technology Vienna
- Forschungszentrum für Medizintechnik und Biotechnologie Bad Langensalza
- Biomedical Research Centre, SHU, UK : longevity test results show ~97 – 99% bacteria count reduction of Escherichia Coli, Staphylococcus aureus. Tests include Enterococcus hirae, Pseudomonas aeruginosa, Candida Albicans and Aspergillus niger.
- Medizinische Universität Wien. Universitätsklinik für innere Medizin





Application Guide: easy-on+ Anti Bacterial Paint

Coating performance is proportional to the degree of surface preparation.

Surfaces must be clean, dry (<6% moisture), undamaged and free of all contaminants prior to coating.

Many modern surfaces, especially when new, have a layer of grease, oil or other contaminants on them. To ensure good adhesion it is important these surfaces are thoroughly cleaned with a water based degreaser and that the degreaser used is then washed away before attempting to apply the coating.

Both the contaminants and the degreaser can reduce adhesion so cleanliness must be considered critical.

- Prepare damaged areas to original surface preparation specifications, feathering edges of any intact coating system.
- For optimum application, temperature of the material should be between 20°C and 30°C prior to mix and application.
- Gradually add total contents of Cure tin into Resin tin and stir thoroughly to a uniform consistency.
- Apply one thin coat by brush or small roller without diluting. See below for spray instructions.
(See technical data sheet for spreading rates)
- Use a cross-lapping method of application to avoid misses and ensure corners and edges are covered.
If the surface is porous do not attempt to cover with one application. Apply a thin coat, leave for 3 – 4 hours to partially reduce porosity, then apply a second light and even coat.

SUGGESTED SURFACE PREPARATION:

Plaster Surface must be dry

Stainless Steel Abrade, sweep blast or high pressure water blast.

Aluminium Degrease followed by abrading blast or chemical conversion treatment.

Galvanizing Degrease followed by abrading or chemical conversion treatment.

Concrete New concrete - Abrade to remove laitance.
Aged concrete must be thoroughly cleaned.

Aged Coatings All surfaces must be clean & dry, tightly bonded and free of loose flakes (existing paint) and corrosion products.

Brick/stone All surfaces must be clean and dry and free of loose material.

Timber, etc Ensure surfaces are clean and dry.

SPRAY INSTRUCTIONS:

With all spraying it is advisable to warm the material before use to 20°C and pass the mixed material through a 400 mesh filter. Use two quick passes; one horizontal and one vertical to ensure overall coverage.

HVLP+ Walter pilot:

- Use 2,2 bar pressure with the 1,8 mm nozzle.
- WFT should be between 25 and 40 microns.

Conventional air spray (pressure pot):

- Use 0,2 bar material pressure and 3,5 bar assisted air pressure.
- Apply the recommended WFT of around 25/30 microns.

ALWAYS CLEAN OUT THE UNIT THOROUGHLY WHEN FINISHED SPRAYING. LEAVE SMALL AMOUNT OF CLEANER IN THE SPRAY POT.



SDS: easy-on+ Anti Bacterial Paint Resin

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier** easy-on+cure
Other means of identification: Not available.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Product use: coating applications.
Use of the substance: Coating.
- 1.3 Details of the supplier of the safety data sheet**
 Urban Hygiene Ltd, Sky Business Park, Robin Hood Airport, Doncaster, DN9 3GN, UK
 Tel: +44 01302 623193
 Fax: +44 01302 623167
E-mail address of person responsible for this SDS: enquiries@urbanhygiene.com
- 1.4 Emergency telephone number**
Telephone: +31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Xn; R22
 R43
 R52/53

Human health hazards: Harmful if swallowed. May cause sensitisation by skin contact

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols:



Indication of danger:

Harmful

Risk phrases:

R22- Harmful if swallowed.
 R43- May cause sensitisation by skin contact.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S23- Do not breathe vapour or spray.
 S24- Avoid contact with skin.
 S37- Wear suitable gloves.
 S38- In case of insufficient ventilation, wear suitable respiratory equipment.

Hazardous Ingredients: Proprietary silicone

4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-

Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-

Supplemental label elements: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Not applicable.

Tactile warning of danger: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification: None known.

SECTION 3: Composition/information on ingredients

Substance/mixture: Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Proprietary silicone	-	50 - <75	Xn; R22	Acute Tox. 4, H302	[1]
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane	EC: 500-070-7 CAS: 30583-72-	2.5 - <25	R43 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-	CAS: 104810-48-2	1 - <2.5	R43 N; R51/53	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	CAS: 104810-47-1	1 - <2.5	R43 N; R51/53	Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures**4.1 Description of first aid measures**

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of First-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

Eye contact: No known significant effects or critical hazards.

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: May cause sensitisation by skin contact.

Ingestion: Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact: No specific data.

Inhalation: No specific data.

Skin contact: Adverse symptoms may include the following:

- Irritation
- Redness

Ingestion: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products: Decomposition products may include the following materials:

- carbon dioxide
- carbon monoxide
- nitrogen oxides
- halogenated compounds
- metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

6.3 Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene:

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including

any incompatibilities:

Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

SECTION 8 Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters Occupational exposure limits No exposure limit value known.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs: DNELs - Not available.

PNECs: PNECs - Not available.

8.2 Exposure controls

Appropriate engineering controls: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures:

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety glasses with side shields.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves: butyl rubber

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental

exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state:

Liquid.

- **Colour:** Not available.
- **Odour:** Characteristic.
- **Odour threshold:** Not available.
- **pH:** Not available.

- **Melting point:** Not available.
- **Freezing point:** Not available.
- **Initial boiling point and boiling range:** >37.78°C
- **Flash point:** Closed cup: Not applicable.
- **Evaporation rate:** Not available.
- **Material supports combustion:** Yes.
- **Flammability (solid, gas):** Not available.
- **Upper/lower flammability or explosive limits:** Lower: 1%, Upper: 7%
- **Relative density:** 1.15
- **Solubility(ies):** Insoluble in the following materials: cold water.
- **Partition coefficient n-octanol/ water:** Not available.
- **Auto-ignition temperature:** Not available.
- **Decomposition temperature:** Not available.
- **Viscosity:** Not Applicable
- **Explosive properties:** Not available.
- **Oxidising properties:** Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability: The product is stable.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: When exposed to high temperatures may produce hazardous decomposition products.
Refer to protective measures listed in sections 7 and 8.

10.5 Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Product/ingredient name	Result	Species	Dose	Exposure
Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-	LC50 Inhalation Vapour	Rat	5800 mg/m ³	4 hours

Acute toxicity: Conclusion/Summary: Not available.

Irritation/Corrosion: Conclusion/Summary: Not available.

Sensitiser: Conclusion/Summary: Not available.

Mutagenicity: Conclusion/Summary: Not available.

Carcinogenicity: Conclusion/Summary: Not available.

Reproductive toxicity: Conclusion/Summary: Not available.

Teratogenicity: Conclusion/Summary: Not available.

Information on the likely routes of exposure: Not available.

Potential acute health effects:

Inhalation: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Harmful if swallowed.

Skin contact: May cause sensitisation by skin contact.

Eye contact: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.

Ingestion: No specific data.

Skin Contact: Adverse symptoms may include the following:

- irritation
- redness

Eye contact: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects: Not available.

Conclusion/Summary: Not available.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other information: Not available.

There is no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

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

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-hydroxy-, Poly(oxy-1,2-ethanediyl), a-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-w-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-. May produce an allergic reaction.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential: Not available.

12.4 Mobility in soil Soil/water partition coefficient (KOC): Not available.

Mobility: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste product residues should not be disposed of via the sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste:

Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances

Packaging

Methods of disposal:

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	None.	None.	None.	None.
14.2 UN proper shipping name	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.3 Transport hazard class(es)	None.	None.	None.	None.
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Additional information

ADR Viscosity Remarks: Not available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation(EC) No.1907/2006(REACH)

Annex XIV-List of substances subject to authorisation

Substances of very high concern

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Other EU regulations

15.2 Chemical Safety

Assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

▀ Indicates information that has changed from previously issued version.

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

Full text of abbreviated H statements:

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]:

Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4

Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2

Aquatic Chronic 3, H412 AQUATIC TOXICITY (CHRONIC) - Category 3

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

Full text of abbreviated R phrases:

R22- Harmful if swallowed.

R43- May cause sensitisation by skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD]:

Xn - Harmful

N - Dangerous for the environment

History:

Date of revision: 11 April 2013

Date of previous issue: 8 November 2012

Prepared by: RJ

Version: 2.01

Disclaimer:

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. If data is more than 12 months old then data should only be used after checking with Urban Hygiene office.

The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products properties.



wallcoatings

urbanhygiene wall coatings protect over 3,000,000M² worldwide



urbanhygiene.

In the business of keeping things clean

Sky Business Park, Robin Hood International Airport,
Doncaster, South Yorkshire, DN9 3GN England

T: +44 (0) 1302 623193 F: +44 (0) 1302 623167

E: enquiries@urbanhygiene.com

www.urbanhygiene.com

SDS: easy-on+ Anti Bacterial Paint Cure

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product name:** easy-on+ Cure
Other means of identification: Not available.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Product use: Professional applications.
Use of the substance: Coating.
- 1.3 Details of the supplier of the safety data sheet**
 Urban Hygiene Ltd, Sky Business Park, Robin Hood Airport, Doncaster, DN9 3GN, UK
 Tel: +44 01302 623193
 Fax: +44 01302 623167
E-mail address of person responsible for this SDS: enquiries@urbanhygiene.com
- 1.4 Emergency telephone number :** +31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition: Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification: Xn; R22
 C; R34
 R52/53

Human health hazards: Harmful if swallowed. Causes burns.

Environmental hazards: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard symbol or symbols:



Indication of danger: Corrosive

Risk phrases: R22- Harmful if swallowed.
 R34- Causes burns.
 R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S23- Do not breathe vapour or spray.
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
 S38- In case of insufficient ventilation, wear suitable respiratory equipment.
 S49- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Hazardous ingredients: Proprietary silane

Supplemental label elements: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings: Not applicable.

Tactile warning of danger: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification: None known.

SECTION 3: Composition/information on ingredients

Substance/mixture: Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Proprietary silane	-	50 - <75	Xn; R22 C; R34	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1]
Proprietary silane	-	25 - <35	C; R34	Skin Irrit. 2, H315 Eye Dam. 1, H318	[1]
dioctyltin dilaurate	EC: 222-883-3 CAS: 3648-18-	1 -	Xn; R48/22 R53	Repr. 2, H361fd STOT RE 2, H373 Aquatic Chronic 3, H412	[1] [2]
dibutylbis(pentane-2, 4-dionato-O,O')tin	EC: 245-152-0 CAS: 22673-19-4	0.25 - <0.5	Muta. Cat. 3; R68 Repr. Cat. 2; R60, T; R48/25 N; R50/53	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341	[1]
Poly-[2-(2-ethoxy)-ethoxy ethyl-guaninidnuim	374572-91-5	<5	N: R50/53		
Poly-(hexamethyl)enedi amine-guaninidnuim	57028-96-3	<5	N: R50/53		
			See Section 16 for the full text of the R- phrases declared above	STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures**4.1 Description of first aid measures**

Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.

Protection of First-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed**Potential acute health effects**

Eye contact: Corrosive to eyes. Causes burns.

Inhalation: May give off gas, vapour, or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin contact: Corrosive to the skin. Causes burns.

Ingestion: Harmful if swallowed. May cause burns to the mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

- Pain
- Watering
- Redness

Inhalation: No specific data.

Skin contact: Adverse symptoms may include the following:

- Pain or irritation
- Redness
- Blistering may occur

Ingestion: Adverse symptoms may include the following:

- Stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture**Hazards from the**

substance or mixture: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products:

Decomposition products may include the following materials:

- carbon dioxide
- carbon monoxide
- nitrogen oxides
- metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. This material is harmful to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Special protective equipment for firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

6.3 Methods and materials for containment and cleaning up

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities: Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

SECTION 8 Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters Occupational exposure limits No exposure limit value known.

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs: DNELs - Not available.

PNECs: PNECs - Not available.

8.2 Exposure controls

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapour, or mist, use process enclosures, local exhaust ventilation or any other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures:

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Chemical splash goggles and face shield.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves: nitrile, neoprene.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

- **Physical state:** Liquid.
- **Colour:** Not available.
- **Odour:** Aromatic. [Strong]
- **Odour threshold:** Not available.
- **pH:** Not available.
- **Melting point:** Not available.
- **Freezing point:** Not available.
- **Initial boiling point and boiling range:** >37.78°C
- **Flash point:** Closed cup: Not applicable.
- **Evaporation rate:** Not available.
- **Material supports combustion:** Yes.
- **Flammability (solid, gas):** Not available.
- **Upper/lower flammability or explosive limits:** Lower: 5.5%, Upper: 36.5%
- **Relative density:** 0.97
- **Solubility(ies):** Insoluble in the following materials: cold water.
- **Partition coefficient n-octanol/ water:** Not available.
- **Auto-ignition temperature:** Not available.
- **Decomposition temperature:** Not available.
- **Viscosity:** Not applicable
- **Explosive properties:** Not available.
- **Oxidising properties:** Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability: The product is stable.

10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid: When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

10.5 Incompatible materials: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Product/ingredient name	Result	Species	Dose	Exposure
Proprietary Silane	LD50 Dermal	Rabbit	4 g/kg	-
	LD50 Oral	Rat	1.57 g/kg	-
dictyltin dilaurate	LD50 Oral	Rat	6450 mg/kg	-
dibutylbis(pentane-2, 4-dionato-O,O')tin	LD50 Oral	Rat	>2 g/kg	-

Acute toxicity: Conclusion/Summary: Not available.

Irritation/Corrosion: Conclusion/Summary: Not available.

Sensitiser: Conclusion/Summary: Not available.

Mutagenicity: Conclusion/Summary: Not available.

Carcinogenicity: Conclusion/Summary: Not available.

Reproductive toxicity: Conclusion/Summary: Not available.

Teratogenicity: Conclusion/Summary: Not available.

Information on the likely

routes of exposure: Not available.

Potential acute health effects:

Inhalation:

May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion:

Harmful if swallowed. May cause burns to mouth, throat and stomach.

Skin contact:

Corrosive to the skin. Causes burns.

Eye contact:

Corrosive to eyes. Causes burns.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:

No specific data.

Ingestion:

Adverse symptoms may include the following:

- Stomach pains

Skin Contact:

Adverse symptoms may include the following:

- Pain or irritation
- Redness
- Blistering may occur

Eye contact:

Adverse symptoms may include the following:

- Pain
- Watering
- Redness

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.

Potential delayed effects: Not available.

Potential chronic health effects: Not available.

Conclusion/Summary: Not available.

General:

No known significant effects or critical hazards.

Carcinogenicity:

No known significant effects or critical hazards.

Mutagenicity:

No known significant effects or critical hazards.

Teratogenicity:

No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Other information: Not available.

There is no data available on the mixture itself. The mixture has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 3 for details.

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

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhoea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary:

Not available.

12.2 Persistence and degradability Conclusion/Summary:

Not available.

12.3 Bioaccumulative potential:

Not available.

12.4 Mobility in soil Soil/water partition coefficient (KOC):

Not available.

Mobility:

Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimised wherever possible.

Waste product residues should not be disposed of via the sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances



Packaging

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	3066	3066	3066	3066
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	No.	No.	No.	No.
14.6 Special precautions for user	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.	Transport within user's premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Additional information

ADR Viscosity Remarks: Not available.

ADR Tunnel code: (E)

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
Not available.



SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation(EC) No.1907/2006(REACH)

Annex XIV-List of substances subject to authorisation

Substances of very high concern

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Restricted to professional users.

Other EU regulations

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
Dibutylbis(pentane-2,4-dionato-O,O')tin	-	Muta. Cat 3; R68	Repr. Cat 2; R61	Repr. Cat 2; R60

15.2 Chemical Safety

Assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

▀ Indicates information that has changed from previously issued version.

Abbreviations and acronyms:

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

Full text of abbreviated H statements:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]:

Acute Tox. 4, H302	ACUTE TOXICITY: ORAL - Category 4
Aquatic Acute 1, H400	AQUATIC TOXICITY (ACUTE) – Category 1
Aquatic Chronic 1, H410	AQUATIC TOXICITY (CHRONIC) - Category 1
Aquatic Chronic 3, H412	AQUATIC TOXICITY (CHRONIC) - Category 3
Eye Irrit. 2, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Muta. 2, H341	GERM CELL MUTAGENICITY - Category 2
Repr. 1B H360FD	TOXIC TO REPRODUCTION [Fertility and Unborn child] – Category 1B
Repr. 2, H361fd	TOXIC TO REPRODUCTION [Fertility and Unborn child] – Category 2



Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION – Category 1B
Skin Corr. 1C, H314	SKIN CORROSION/IRRITATION – Category 1C
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION – Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT RE 1, H372	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): ORAL – Category 1
STOT RE 2, H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): ORAL – Category 2
STOT SE 1, H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): – Category 1

Full text of abbreviated R phrases:

R68- Possible risk of irreversible effects.
R60- May impair fertility.
R61- May cause harm to the unborn child.
R48/25- Also toxic: danger of serious damage to health by prolonged exposure if swallowed.
R22- Also harmful if swallowed.
R48/22- Also harmful: danger of serious damage to health by prolonged exposure if swallowed.
R34- Causes burns.
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R2/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53- May cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD]:

Muta. Cat 3 – Mutagen category 3
Repr. Cat 2 – Toxic to reproduction category 2
T – Toxic
C - Corrosive
Xn - Harmful
N - Dangerous for the environment

History:

Date of revision: 11 April 2013
Date of previous issue: 4 December 2012
Prepared by: RJ
Version: 2.01

Disclaimer: The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction.

It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. If data is more than 12 months old then data should only be used after checking with Urban Hygiene office.

The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products properties.

