

# WATTYL GALVIT ES600 STD GREY PT A

Chemwatch Material Safety Data Sheet

Issue Date: 18-Mar-2008

XC9317EC

CHEMWATCH 55655

Version No:5

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## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NAME

WATTYL GALVIT ES600 STD GREY PT A

### SYNONYMS

"Product Code: 101116, 201431", "two pack zinc silicate paint coating", "inorganic zinc dust paint"

### PROPER SHIPPING NAME

PAINT

### PRODUCT USE

Requires that the two parts be mixed by hand or mixer before use, in accordance with manufacturers directions. Mix only as much as is required. Application is usually by spray atomisation. may also be applied by airless spray atomisation and may also be applied by brush or hand roller. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Base component of 2 part zinc silicate spray coating.

### SUPPLIER

Company: Wattyl Pty Ltd

Address:

4 Steel St

Blacktown

NSW, 2148

AUS

Telephone: +61 2 9621 6255

Emergency Tel: 1800 039 008

Fax: +61 2 9831 4244

## Section 2 - HAZARDS IDENTIFICATION

### STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE. DANGEROUS GOODS. According to the Criteria of NOHSC, and the ADG Code.

### POISONS SCHEDULE

None

### RISK

Risk Codes	Risk Phrases
R11	Highly flammable.
R20	Harmful by inhalation.
R36	Irritating to eyes.
R40(3)	Limited evidence of a carcinogenic effect.
R50/53	Very toxic to aquatic organisms may cause long- term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

### SAFETY

Safety Codes	Safety Phrases
S36	Wear suitable protective clothing.
S51	Use only in well ventilated areas.
S401	To clean the floor and all objects contaminated by this material use water and detergent.
S35	This material and its container must be disposed of in a safe way.
S13	Keep away from food drink and animal feeding stuffs.
S46	If swallowed IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).
S57	Use appropriate container to avoid environmental contamination.
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S60	This material and its container must be disposed of as hazardous waste.

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
zinc powder	7440-66-6	> 60
xylene	1330-20-7	<10
isopropanol	67-63-0	<10
n- butanol	71-36-3	<5
other ingredients not contributing to the classification		balance

NOTE: Manufacturer has supplied full ingredient information to allow CHEMWATCH assessment.  
contains less than 0.1% benzene

## Section 4 - FIRST AID MEASURES

### SWALLOWED

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

### EYE

If this product comes in contact with the eyes:

- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

### SKIN

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).

### INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.

### NOTES TO PHYSICIAN

- Absorption of zinc compounds occurs in the small intestine.
- The metal is heavily protein bound.

## Section 5 - FIRE FIGHTING MEASURES

### EXTINGUISHING MEDIA

Metal dust fires need to be smothered with sand, inert dry powders.

DO NOT USE WATER, CO2 or FOAM.

- DO NOT use halogenated fire extinguishing agents.

### FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
  - May be violently or explosively reactive.
- When any large container (including road and rail tankers) is involved in a fire, consider evacuation by 500 metres in all directions.

### FIRE/EXPLOSION HAZARD

- Metal powders, while generally regarded as non-combustible, may burn when metal is finely divided and energy input is high.
- May react explosively with water.

Combustion products include: carbon dioxide (CO<sub>2</sub>), other pyrolysis products typical of burning organic material.

### FIRE INCOMPATIBILITY

- Reacts with acids producing flammable / explosive hydrogen (H<sub>2</sub>) gas.
- Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc.

HAZCHEM: 3[Y]E

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## Section 6 - ACCIDENTAL RELEASE MEASURES

### EMERGENCY PROCEDURES

#### MINOR SPILLS

- Remove all ignition sources.
- Clean up all spills immediately.

#### MAJOR SPILLS

- Clear area of personnel and move upwind.
- Alert Fire Brigade and tell them location and nature of hazard.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

## Section 7 - HANDLING AND STORAGE

### PROCEDURE FOR HANDLING

- Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- DO NOT allow clothing wet with material to stay in contact with skin.
- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.

### SUITABLE CONTAINER

- CARE: Packing of high density product in light weight metal or plastic packages may result in container collapse with product release.
- Heavy gauge metal packages / Heavy gauge metal drums.
- Packing as supplied by manufacturer.
- Plastic containers may only be used if approved for flammable liquid.
- For low viscosity materials (i) : Drums and jerry cans must be of the non-removable head type. (ii) : Where a can is to be used as an inner package, the can must have a screwed enclosure.
- For materials with a viscosity of at least 2680 cSt. (23 deg. C).

### STORAGE INCOMPATIBILITY

- Many metals may incandesce, react violently, ignite or react explosively upon addition of concentrated nitric acid.
- Reacts slowly with water.  
CAUTION contamination with moisture will liberate explosive hydrogen gas, causing pressure build up in sealed containers.  
Reacts violently with caustic soda, other alkalies - generating heat, highly flammable hydrogen gas. If alkali is dry, heat generated may ignite hydrogen - if alkali is in solution may cause violent foaming.
- WARNING: Avoid or control reaction with peroxides. All transition metal peroxides should be considered as potentially explosive. For example transition metal complexes of alkyl hydroperoxides may decompose explosively.
  - The pi-complexes formed between chromium(0), vanadium(0) and other transition metals (haloarene-metal complexes) and mono-or poly-fluorobenzene show extreme sensitivity to heat and are explosive.
  - Some metals can react exothermically with oxidising acids to form noxious gases.
  - Very reactive metals have been known to react with halogenated hydrocarbons, sometimes forming explosive compounds (for example, copper dissolves when heated in carbon tetrachloride).
  - Many metals in elemental form react exothermically with compounds having active hydrogen atoms (such as acids and water) to form flammable hydrogen gas and caustic products.
  - Elemental metals may react with azo/diazo compounds to form explosive products.
  - Reacts with acids producing flammable / explosive hydrogen (H<sub>2</sub>) gas.
  - Avoid contamination with water, alkalies and detergent solutions.
  - Material reacts with water and generates gas, pressurises containers with even drum rupture resulting.
  - Avoid reaction with oxidising agents.

### STORAGE REQUIREMENTS

- Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

Source	Material	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Peak ppm	Peak mg/m <sup>3</sup>
Australia Exposure	zinc powder		10				

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### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Source	Material	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Peak ppm	Peak mg/m <sup>3</sup>
Standards	(Inspirable dust (not otherwise classified))						
Australia Exposure Standards	xylene (Xylene (o-, m-, p- isomers))	80	350	150	655		
Australia Exposure Standards	isopropanol (Isopropyl alcohol)	400	983	500	1230		
Australia Exposure Standards	n- butanol (n- Butyl alcohol)					50	152

### PERSONAL PROTECTION

#### RESPIRATOR

Type A Filter of sufficient capacity

#### EYE

- Safety glasses with side shields.
- Chemical goggles.

#### HANDS/FEET

Wear chemical protective gloves, eg. PVC.  
Suitability and durability of glove type is dependent on usage. Factors such as:

- frequency and duration of contact,
- chemical resistance of glove material,

#### OTHER

- Overalls.
- PVC Apron.

### ENGINEERING CONTROLS

For flammable liquids and flammable gases, local exhaust ventilation or a process enclosure ventilation system may be required.  
Ventilation equipment should be explosion-resistant.

### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

#### APPEARANCE

Grey viscous highly flammable liquid with a characteristic odour; not miscible with water.

#### PHYSICAL PROPERTIES

Liquid.

Does not mix with water.

Sinks in water.

Molecular Weight: Not applicable.  
Melting Range (°C): Not available.  
Solubility in water (g/L): Immiscible  
pH (1% solution): Not available.  
Volatile Component (%vol): 55- 60 (by vol)  
Relative Vapour Density (air=1): >1  
Lower Explosive Limit (%): Not available  
Autoignition Temp (°C): Not available  
State: Liquid

Boiling Range (°C): 82- 143  
Specific Gravity (water=1): 3.00- 3.10  
pH (as supplied): Not applicable  
Vapour Pressure (kPa): Not Available  
Evaporation Rate: Not available  
Flash Point (°C): 12 (isoprop)  
Upper Explosive Limit (%): Not available  
Decomposition Temp (°C): Not Available  
Viscosity: Not Available

### Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

#### CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.

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## Section 11 - TOXICOLOGICAL INFORMATION

### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

Harmful by inhalation.

Irritating to eyes.

Vapours may cause dizziness or suffocation.

Vapours may cause drowsiness and dizziness.

#### CHRONIC HEALTH EFFECTS

Limited evidence of a carcinogenic effect.

### TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

#### ZINC POWDER:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Dermal (rabbit) LD50: 1130 mg/kg

Inhalation (human) TClO: 124 mg/m<sup>3</sup>/50min.

#### IRRITATION

Skin (human):0.3mg/3DaysInt. Mild

#### XYLENE:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Oral (human) LDLo: 50 mg/kg

Oral (rat) LD50: 4300 mg/kg

Inhalation (human) TClO: 200 ppm

Inhalation (man) LCLo: 10000 ppm/6h

Inhalation (rat) LC50: 5000 ppm/4h

Oral (Human) LD: 50 mg/kg

Inhalation (Human) TClO: 200 ppm/4h

Intraperitoneal (Rat) LD50: 2459 mg/kg

Subcutaneous (Rat) LD50: 1700 mg/kg

Oral (Mouse) LD50: 2119 mg/kg

Intraperitoneal (Mouse) LD50: 1548 mg/kg

Intravenous (Rabbit) LD: 129 mg/kg

Inhalation (Guinea) pig: LC 450 ppm/4h

The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling the epidermis.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

Reproductive effector in rats

#### ISOPROPANOL:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Oral (human) LDLo: 3570 mg/kg

Oral (human) TDLo: 223 mg/kg

Oral (man) TDLo: 14432 mg/kg

Oral (rat) LD50: 5045 mg/kg

Dermal (rabbit) LD50: 12800 mg/kg

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic).

This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis.

The substance is classified by IARC as Group 3:

NOT classifiable as to its carcinogenicity to humans.

Evidence of carcinogenicity may be inadequate or limited in animal testing.

#### N-BUTANOL:

unless otherwise specified data extracted from RTECS - Register of Toxic Effects of Chemical Substances.

#### TOXICITY

Oral (rat) LD50: 790 mg/kg

Inhalation (human) TClO: 25 ppm

Inhalation (rat) LC50: 8000 ppm/4h

Dermal (rabbit) LD50: 3400 mg/kg

Inhalation (human) TClO: 86000 mg/m<sup>3</sup>

#### IRRITATION

Skin (rabbit): 405 mg/24h- Moderate

Eye (human): 50 ppm - Irritant

Eye (rabbit): 1.6 mg- SEVERE

Eye (rabbit): 24 mg/24h- SEVERE

#### MATERIAL

#### CARCINOGEN

#### REPROTOXIN

#### SENSITISER

#### SKIN

xylylene

IARC:3

ILOEI

isopropanol

IARC:3

CARCINOGEN

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## Section 11 - TOXICOLOGICAL INFORMATION

IARC: International Agency for Research on Cancer (IARC) Carcinogens: xylene Category: The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.

### REPROTOXIN

ILOEI: ILO Chemicals in the electronics industry that have toxic effects on reproduction: xylene

### CARCINOGEN

IARC: International Agency for Research on Cancer (IARC) Carcinogens: isopropanol Category: The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or limited in animal testing.

## Section 12 - ECOLOGICAL INFORMATION

**Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**

**This material and its container must be disposed of as hazardous waste.**

**Avoid release to the environment.**

**Refer to special instructions/safety data sheets.**

## Section 13 - DISPOSAL CONSIDERATIONS

• Containers may still present a chemical hazard/ danger when empty.

• Return to supplier for reuse/ recycling if possible.

**DO NOT allow wash water from cleaning or process equipment to enter drains.**

**It may be necessary to collect all wash water for treatment before disposal.**

• Recycle wherever possible.

• Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.

## Section 14 - TRANSPORTATION INFORMATION

Labels Required: FLAMMABLE LIQUID

HAZCHEM: 3[Y]E

### UNDG:

Dangerous Goods 3 Subrisk: None

Class:

UN Number: 1263 Packing Group: II

Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac, varnish, polish, liquid filler and liquid lacquer base) or

### Air Transport IATA:

ICAO/IATA Class: 3 ICAO/IATA Subrisk: None

UN/ID Number: 1263 Packing Group: II

Special provisions: A3 A72

Cargo Only

Packing 307 Maximum Qty/Pack: 60 L

Instructions:

Passenger and Cargo Packing 305 Passenger and Cargo Maximum Qty/Pack: 5 L

Instructions:

Passenger and Cargo Limited Quantity Packing Y305 Passenger and Cargo Limited Quantity Maximum Qty/Pack: 1 L

Instructions:

Shipping name: PAINT

### Maritime Transport IMDG:

IMDG Class: 3 IMDG Subrisk: None

UN Number: 1263 Packing Group: II

EMS Number: F- E, S- E Special provisions: 163 944

Limited Quantities: 5 L

Shipping Name: PAINT (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or PAINT RELATED MATERIAL (including paint thinning or reducing compound)

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## Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE: None

### REGULATIONS

Wattyl Galvit ES600 Std Grey Pt A (CAS: None):

No regulations applicable

zinc powder (CAS: 7440-66-6) is found on the following regulatory lists;

- Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (AQUA/1 to 6 - inorganic chemicals)
- Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (Domestic water supply - inorganic chemicals)
- Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (IRRIG - inorganic chemicals)
- Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (STOCK - inorganic chemicals)
- Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways taken to cause environmental harm (Aquatic habitat)
- Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways taken to cause environmental harm (IRRIG)
- Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways - Agricultural uses (Stock)
- Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways - Domestic water quality
- Australia Exposure Standards
- Australia Hazardous Substances
- Australia High Volume Industrial Chemical List (HVICL)
- Australia Inventory of Chemical Substances (AICS)
- Australia National Pollutant Inventory
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 4
- OECD Representative List of High Production Volume (HPV) Chemicals
- WHO Guidelines for Drinking-water Quality - Chemicals for which guideline values have not been established

xylene (CAS: 1330-20-7) is found on the following regulatory lists;

- Australia - Australian Capital Territory - Environment Protection Regulation: Ambient environmental standards (Domestic water supply - organic compounds)
- Australia - Australian Capital Territory - Environment Protection Regulation: Pollutants entering waterways - Domestic water quality
- Australia Exposure Standards
- Australia Hazardous Substances
- Australia High Volume Industrial Chemical List (HVICL)
- Australia Inventory of Chemical Substances (AICS)
- Australia National Pollutant Inventory
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix E (Part 2)
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Appendix F (Part 3)
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 5
- Australia Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) - Schedule 6
- IMO IBC Code Chapter 17: Summary of minimum requirements
- IMO IBC Code Provisional Categorization of Liquid Substances
- IMO MARPOL 73/78 (Annex II) - List of Noxious Liquid Substances Carried in Bulk
- International Agency for Research on Cancer (IARC) Carcinogens
- International Council of Chemical Associations (ICCA) - High Production Volume List
- OECD Representative List of High Production Volume (HPV) Chemicals
- WHO Guidelines for Drinking-water Quality - Guideline values for chemicals that are of health significance in drinking-water

isopropanol (CAS: 67-63-0) is found on the following regulatory lists;

- Australia Exposure Standards
- Australia Hazardous Substances
- Australia High Volume Industrial Chemical List (HVICL)
- Australia Inventory of Chemical Substances (AICS)
- IMO IBC Code Chapter 18: List of products to which the Code does not apply
- IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances
- International Agency for Research on Cancer (IARC) Carcinogens
- OECD Representative List of High Production Volume (HPV) Chemicals

n-butanol (CAS: 71-36-3) is found on the following regulatory lists;

- Australia Exposure Standards
- Australia Hazardous Substances
- Australia High Volume Industrial Chemical List (HVICL)
- Australia Inventory of Chemical Substances (AICS)
- IMO IBC Code Chapter 18: List of products to which the Code does not apply
- IMO MARPOL 73/78 (Annex II) - List of Other Liquid Substances
- International Council of Chemical Associations (ICCA) - High Production Volume List
- OECD Representative List of High Production Volume (HPV) Chemicals

## Section 16 - OTHER INFORMATION

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

[www.chemwatch.net/references](http://www.chemwatch.net/references).

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Section 16 - OTHER INFORMATION

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The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

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