

SAFETY DATA SHEET

LWS4712 v5.0

en/US



1. Identification of the substance/mixture and of the company/undertaking

Product name	ZENITH WATERBORNE POWDER GLAZE - WHITE	
Product code	LWS4712	Formula date: 2017-10-13
Intended use	Coating for professional use Axalta Coating Systems, LLC 1717 English Road US High Point, NC 27262	
Telephone	Product information	(855) 6-AXALTA
	Medical emergency	(855) 274-5698
	Transportation emergency	(800) 424-9300 (CHEMTREC)

2. Hazards identification

This product is considered hazardous based on GHS classification criteria.

Classification

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitisation	Category 1
Carcinogenicity	Category 1A
Toxicity for reproduction	Category 1B
Target Organ Systemic Toxicant - Repeated exposure	Category 1

Label elements

Pictograms



Signal word: Danger

Hazard statements

Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

Obtain special instructions before use.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/ attention.
Specific treatment (see supplemental first aid instructions on this label).

SAFETY DATA SHEET

LWS4712 v5.0

en/US



If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
Store locked up.
Dispose of contents/container in accordance with local regulations.

Other hazards which do not result in classification

Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

The following percentage of the mixture consists of ingredient(s) with unknown acute toxicity:

0 %

3. Composition/information on ingredients

Mixture of synthetic resins, pigments, and solvents as well as water

Components

CAS-No.	Chemical name	Concentration
1317-65-3	Limestone (calcium carbonate)	15 - 26%
13463-67-7	Titanium dioxide	4 - 15%
126-86-3	2,4,7,9-tetramethyl-5 decyne-4,7,diol	0.1 - 1.0%
872-50-4	Methyl pyrrolidone	0.1 - 1.0%
14808-60-7	Quartz-crystalline silica	0.1 - 1.0%

Any concentration shown as a range is due to batch variation.

4. First aid measures

Eye contact

Remove contact lenses. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Seek medical advice.

Skin contact

Do NOT use solvents or thinners. Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. If skin irritation persists, call a physician.

Inhalation

Avoid inhalation of vapour or mist. Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

Ingestion

If swallowed, seek medical advice immediately and show this safety data sheet (SDS) or product label. Do NOT induce vomiting. Keep at rest.

Most Important Symptoms/effects, acute and delayed

Inhalation

May cause nose and throat irritation.

Ingestion

SAFETY DATA SHEET

LWS4712 v5.0
en/US



May result in gastrointestinal distress.

Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Indication of Immediate medical attention and special treatment needed if necessary

No data available on the product. See section 3 and 11 for hazardous ingredients found in the product.

5. Firefighting measures

Suitable extinguishing media

Water spray, Dry chemical, Foam

Extinguishing media which shall not be used for safety reasons

High volume water jet

Hazardous combustion products

CO, CO₂, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

Fire and Explosion Hazards

Avoid heating above flash point.

Special Protective Equipment and Fire Fighting Procedures

Full protective flameproof clothing should be worn as appropriate. Wear self-contained breathing apparatus for firefighting if necessary. In the event of fire, cool tanks with water spray. Do not allow run-off from fire fighting to enter public sewer systems or public waterways.

6. Accidental release measures

Procedures for cleaning up spills or leaks

Ventilate area. If heated above the flashpoint, remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

Environmental precautions

Do not let product enter drains. Notify the respective authorities in accordance with local law in the case of contamination of rivers, lakes or waste water systems.

7. Handling and storage

Precautions for safe handling

Observe label precautions. Close container after each use. If heated above its flash point, this must be handled as if it were a flammable liquid. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking. Do not freeze. If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Build up of fine material should be cleaned using gentle sweeping or vacuuming in accordance with best practices. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used.

Advice on protection against fire and explosion

Solvent vapours are heavier than air and may spread along floors. Vapors may form explosive mixtures with air and will burn when an ignition source is present. Always keep in containers of same material as the original one. Never use pressure to empty container: container is not a pressure vessel. The accumulation of contaminated rags may result in spontaneous combustion. Good housekeeping standards and regular safe removal of waste materials will minimize the risks of spontaneous combustion and other fire hazards.

SAFETY DATA SHEET

LWS4712 v5.0

en/US



Storage

Requirements for storage areas and containers

Observe label precautions. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage

Store separately from oxidizing agents and strongly alkaline and strongly acidic materials.

OSHA/NFPA Storage Classification: IIIB

8. Exposure controls/personal protection

Engineering controls and work practices

Provide adequate ventilation. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

National occupational exposure limits

CAS-No.	Chemical name	Source	Time	Type	Value	Note
1317-65-3	Limestone (calcium carbonate)	ACGIH	8 hr	TWA	10 mg/m ³	
		OSHA	8 hr	TWA	15 mg/m ³	Total Dust
		OSHA	8 hr	TWA	5 mg/m ³	Respirable Dust
13463-67-7	Titanium dioxide	OSHA	8 hr	TWA	15 mg/m ³	Total Dust
14808-60-7	Quartz-crystalline silica	OSHA	8 hr	TWA	0.3 mg/m ³	Total Dust
		OSHA	8 hr	TWA	50 ug/m ³	Respirable Dust

Glossary

CEIL	Ceiling exposure limit
STEL	Short term exposure limit
TL	Threshold limits
TLV	Threshold Limit Value
TWA	Time weighted average
TWAE	Time-Weighted Average

Protective equipment

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

Respiratory protection

Do not breathe vapors or mists. Wear an appropriate, properly fitted NIOSH approved respirator during application and until all vapors and spray mists are exhausted unless air monitoring demonstrates vapor/mist levels are below applicable limits. If respirators are required, use a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A). In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use.

Eye protection

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

Skin and body protection

Choose skin and body protection as appropriate for the concentration and quantity of hazardous substances, and to the specific work-place practices.

Hygiene measures

SAFETY DATA SHEET

LWS4712 v5.0

en/US



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

Environmental exposure controls

Do not let product enter drains.

For ecological information, refer to Ecological Information Section 12.

9. Physical and chemical properties

Appearance

Form: liquid **Colour:** white

Flash point	> 200 °F	
Lower Explosive Limit	Not applicable.	
Upper Explosive Limit	Not applicable.	
Evaporation rate	Slower than Ether	
Vapor pressure of principal solvent	0.0 hPa	
Water solubility	appreciable	
Vapor density of principal solvent (Air = 1)	0.6	
Approx. Boiling Range	100 °C	
Approx. Freezing Range	800 °C	
Gallon Weight (lbs/gal)	9.81	
Specific Gravity	1.18	
Percent Volatile By Volume	88.91%	
Percent Volatile By Weight	75.48%	
Percent Solids By Volume	11.09%	
Percent Solids By Weight	24.52%	
pH (waterborne systems only)	7 – 9	
Partition coefficient: n-octanol/water	No data available	
Ignition temperature	Not applicable.	DIN 51794
Decomposition temperature	Not applicable.	
Viscosity (23 °C)	Not applicable.	ISO 2431-1993
VOC* less exempt (lbs/gal)	0.9	
VOC* as packaged (lbs/gal)	0.1	

Does not sustain combustion.

* VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

10. Stability and reactivity

Stability

Stable

Conditions to avoid

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

Materials to avoid

None reasonably foreseeable.

Hazardous decomposition products

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

SAFETY DATA SHEET

LWS4712 v5.0

en/US



Hazardous Polymerization

Will not occur.

Sensitivity to Static Discharge

If heated above the flash point, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to Mechanical Impact

None known.

11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause nose and throat irritation.

Ingestion

May result in gastrointestinal distress.

Skin or eye contact

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

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

Acute oral toxicity

not hazardous

Acute dermal toxicity

not hazardous

Acute inhalation toxicity

not hazardous

% of unknown composition: 0 %

Skin corrosion/irritation

Limestone (calcium carbonate)	Category 2
Methyl pyrrolidone	Category 2

Serious eye damage/eye irritation

Limestone (calcium carbonate)	Category 2A
2,4,7,9-tetramethyl-5 decyne-4,7,diol	Category 1
Methyl pyrrolidone	Category 2A

Respiratory sensitisation

Not classified according to GHS criteria

Skin sensitisation

2,4,7,9-tetramethyl-5 decyne-4,7,diol	Category 1
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SAFETY DATA SHEET

LWS4712 v5.0
en/US



Germ cell mutagenicity

Not classified according to GHS criteria

Carcinogenicity

Titanium dioxide	Category 2
Quartz-crystalline silica	Category 1A

Toxicity for reproduction

Methyl pyrrolidone Category 1B

Target Organ Systemic Toxicant - Single exposure

Not classified according to GHS criteria

Target Organ Systemic Toxicant - Repeated exposure

- Inhalation

Respiratory system Quartz-crystalline silica, Titanium dioxide

Aspiration toxicity

Not classified according to GHS criteria

Numerical measures of toxicity (acute toxicity estimation (ATE), etc.)

No information available.

Symptoms related to the physical, chemical and toxicological characteristics

No information available.

Whether the hazardous chemical is listed by NTP, IARC or OSHA

Titanium dioxide	IARC 2B
Quartz-crystalline silica	IARC 1

12. Ecological information

There are no data available on the product itself. The product should not be allowed to enter drains or watercourses.

13. Disposal considerations

Waste Disposal Method

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

DOT

Proper shipping name: Not Regulated

The transport information is for bulk shipments. Exceptions may apply for smaller containers.

SAFETY DATA SHEET

LWS4712 v5.0

en/US

**Matters needing attention for transportation**

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules.

15. Regulatory information**TSCA Status**

In compliance with TSCA Inventory requirements for commercial purposes.

DSL Status

All components of the mixture are listed on the DSL.

Photochemical Reactivity

Non-photochemically reactive

Regulatory information

CAS #	Ingredient	EPCRA					CERCLA RQ(lbs)	CAA HAP
		302	TPQ	RQ	311/312	313		
1317-65-3	Limestone (calcium carbonate)	N	NR	NR	N	N	NR	N
13463-67-7	Titanium dioxide	N	NR	NR	A	N	NR	N
126-86-3	2,4,7,9-tetramethyl-5-decyne-4,7,diol	N	NR	NR	A,C,F,N,P,R	N	NR	N
872-50-4	Methyl pyrrolidone	N	NR	NR	A,F	Y	NR	N
14808-60-7	Quartz-crystalline silica	N	NR	NR	A,C	N	NR	N

Key:

EPCRA	Emergency Planning and Community Right-to-know Act (aka Title III, SARA)
302	Extremely hazardous substances
311/312 Categories	F = Fire Hazard A = Acute Hazard R = Reactivity Hazard C = Chronic Hazard P = Pressure Related Hazard
313 Information	Section 313 Supplier Notification - The chemicals listed above with a 'Y' in the 313 column are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know act of 1986 and of 40 CFR 372.
CERCLA	Comprehensive Emergency Response, Compensation and Liability Act of 1980.
HAP	Listed as a Clean Air Act Hazardous Air Pollutant.
TPQ	Threshold Planning Quantity.
RQ	Reportable Quantity
NA	not available
NR	not regulated

16. Other information

The following ratings are based on the criteria of HMIS© II.

HMIS rating H: 3 F: 1 R: 0

Glossary of Terms:

ACGIH | American Conference of Governmental Industrial Hygienists.

SAFETY DATA SHEET

LWS4712 v5.0

en/US



IARC	International Agency for Research on Cancer.
NTP	National Toxicology Program.
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration.
STEL	Short term exposure limit
TWA	Time-weighted average.
PNOR	Particles not otherwise regulated.
PNOC	Particles not otherwise classified.

NOTE: The list (above) of glossary terms may be modified.

Notice from Axalta Coating Systems :

The document reflects information provided to Axalta Coating Systems by its suppliers. Information is accurate to the best of our knowledge and is subject to change as new data is received by Axalta Coating Systems. Persons receiving this information should make their own determination as to its suitability for their purposes prior to use.

The information on this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SDS prepared by: Axalta Coating Systems Regulatory Affairs

Report version

Version	Changes
5.0	16

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