

## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 08/12/2021

Reviewed on 08/12/2021

### 1 Identification

- **Product Identifier**
- **Trade Name: Zirconite STAGE-1 PRE-GLAZE**
- **Product Number: ZIR473125/ ZIR47301**
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Paint surface pre-cleaner for Stage-2 coating.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**  
Concept Chemicals & Coatings Ltd.  
Felt Court, Windmill Lane Ind. Estate  
Denton, Manchester M34 3RB England  
Tel 00 44 (0)161 335 0213  
Fax 00 44 (0)161 335 0214  
www.conceptchemicals.com  
kenny@conceptchemicals.com
- **Emergency telephone number:**  
PERS Emergency Response  
Domestic and Canada: 1-800-633-8253  
International: +001-801-629-0667

### 2 Hazard(s) Identification

- **Classification of the substance or mixture:**



Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



Health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Danger
- **Hazard-determining components of labeling:**  
Naphtha (petroleum), hydrotreated heavy  
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics
- **Hazard statements:**  
H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.
- **Precautionary statements:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.

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- P243 Take precautionary measures against static discharge.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P331 Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

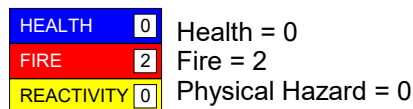
This value refers to knowledge of known, established toxicological or ecotoxicological values.  
0 % of the mixture consists of component(s) of unknown toxicity.

· **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

### 3 Composition/Information on Ingredients

· **Chemical characterization: Substance**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

64742-48-9	Naphtha (petroleum), hydrotreated heavy ⚠ Asp. Tox. 1, H304; Flam. Liq. 4, H227	≥85%
	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics ⚠ Asp. Tox. 1, H304; Flam. Liq. 4, H227	2-12%

· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

### 4 First-Aid Measures

· **Description of first aid measures**

· **General information:** If symptoms persist, call a physician.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in the side position for transportation.

· **After skin contact:**

Generally, the product does not irritate the skin.  
If skin irritation occurs, consult a doctor.

· **After eye contact:**

If eye irritation occurs, consult a doctor.

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Rinse opened eye for several minutes under running water.

· **After swallowing:**

Do not induce vomiting without medical advice.

Get medical attention immediately.

May be harmful if ingested. Can cause respiratory depression and could be fatal. Call a physician or poison control center immediately.

Never give anything by mouth to an unconscious person.

To prevent aspiration of swallowed product, lay victim on side with head lower than waist.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

### 5 Fire-Fighting Measures

· **Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **Special hazards arising from the substance or mixture:**

Combustible liquid. Vapors can travel to a source of ignition and flash back.

Explosive mixtures may occur at temperatures at or above flashpoint.

· **Advice for firefighters**

· **Special protective equipment for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

### \* 6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

· **Environmental precautions:** No special measures required.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· **PAC-1:**

None of the ingredients are listed.

· **PAC-2:**

None of the ingredients are listed.

· **PAC-3:**

None of the ingredients are listed.

### 7 Handling and Storage

· **Handling**

· **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

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Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect from heat.

Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

· **Specific end use(s):** No further relevant information available.

### 8 Exposure Controls/Personal Protection

· **Additional information about design of technical systems:** No further data; see section 7.

· **Control parameters:**

· **Components with occupational exposure limits:**

**64742-48-9 Naphtha (petroleum), hydrotreated heavy**

TWA Short-term value: 600 mg/m<sup>3</sup>, 100 ppm

Long-term value: 300 mg/m<sup>3</sup>, 50 ppm

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics**

TWA Long-term value: 1200 mg/m<sup>3</sup>

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

· **Material of gloves:** Not applicable.

· **Penetration time of glove material:** Not applicable.

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:** None

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### 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Liquid

**Color:** Clear

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

**Melting point/Melting range:** Not determined.

· **Flash point:** 40 °C (104 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

**Lower:** ≥0.6 Vol %

**Upper:** ≤7 Vol %

· **Vapor pressure @ 20 °C (68 °F):** ≤1 hPa (≤0.8 mm Hg)

· **Density @ 20 °C (68 °F):** 0.77 g/cm<sup>3</sup> (6.4257 lbs/gal)

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with:**

**Water:** Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

· **Solvent content:**

**VOC content:** 0.00 %  
0.0 g/l / 0.00 lb/gal

**Solids content:** 0.0 %

· **Other information:** No further relevant information available.

### 10 Stability and Reactivity

· **Reactivity:** No further relevant information available.

· **Chemical stability:** Product is stable under normal conditions.

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**64742-48-9 Naphtha (petroleum), hydrotreated heavy**

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	>3,000 mg/kg (rab)
Inhalative	LC50/4 h	>5,000 mg/l (Rat)
	LC50/96 hours	>100 mg/l (Trout)

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Inhalative	LC50/96 hours	>1,000 mg/l (Fish - Poecilia reticulata, 96h)
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- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:
- **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

### 12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

**64742-48-9 Naphtha (petroleum), hydrotreated heavy**

EC50	>100 mg/l (Green algae)
	>100 mg/l (Daphnia)

**Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics**

EC50	>250 mg/l (Daphnia)
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- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

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- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

### 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

### 15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**  
No further relevant information available.
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients are listed.

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

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· <b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients are listed.
· <b>Chemicals known to cause developmental toxicity:</b>
None of the ingredients are listed.
· <b>New Jersey Right-to-Know List:</b>
None of the ingredients are listed.
· <b>New Jersey Special Hazardous Substance List:</b>
None of the ingredients are listed.
· <b>Pennsylvania Right-to-Know List:</b>
None of the ingredients are listed.
· <b>Pennsylvania Special Hazardous Substance List:</b>
None of the ingredients are listed.
· <b>Carcinogenic categories:</b>
· <b>EPA (Environmental Protection Agency):</b>
None of the ingredients are listed.
· <b>TLV (Threshold Limit Value established by ACGIH):</b>
None of the ingredients are listed.
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>
None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Naphtha (petroleum), hydrotreated heavy  
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics

· **Hazard statements:**

H226 Flammable liquid and vapor.  
H304 May be fatal if swallowed and enters airways.

· **Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting/equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310 If swallowed: Immediately call a poison center/doctor.  
P331 Do NOT induce vomiting.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.



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P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

**· Contact:**

· **Date of last revision/ revision number:** 08/12/2021 / 2

**· Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety and Health  
OSHA: Occupational Safety & Health Administration  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 3: Flammable liquids – Category 3  
Flam. Liq. 4: Flammable liquids – Category 4  
Asp. Tox. 1: Aspiration hazard – Category 1

· **\* Data compared to the previous version altered.**

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