

## Safety Data Sheet (SDS)

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

Issue date 12/05/2023

Reviewed on 12/05/2023

### 1 Identification

· **Product Identifier**

· **TradeName:** Zirconite ZC-BoostaV2

· **Product Number:**

ZIR501030

ZIR501050

ZIR501100

· **Relevant identified uses of the substance or mixture and uses advised against:**

**Product Description:** Ceramic coating.

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**

Concept Chemicals &amp; 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.co

m

· **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

Flammable Liquids 3

H226 Flammable liquid and vapor.



Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

· **Label elements:**

· **Hazard pictograms:**



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**Trade Name: Zirconite ZC-Boosta V2**· **Signal word:** Warning· **Hazard-determining components of labeling:**

n-butyl acetate

· **Hazard statements:**

H226 Flammable liquid and vapor.

H336 May cause drowsiness or dizziness.

· **Precautionary statements:**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

(Contd. on page 2)

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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)**

Health = 1

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = 1

Fire = 2

Physical Hazard = 0

· **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.

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· <b>Dangerous Components:</b>		
CAS: 123-86-4 RTECS: AF 7350000	n-butyl acetate ⚠ Flammable Liquids 3, H226; ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	≥85%
CAS: 246538-78-3	Alkanes, C11-13-iso- ⚠ Aspiration Hazard 1, H304; Flammable Liquids 4, H227	≤2.5%

#### · **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.

(Contd. on page 3)

#### · **After skin contact:**

Wash with soap and water.  
If skin irritation occurs, consult a doctor.

#### · **After eye contact:**

If eye irritation occurs, consult a doctor.  
Rinse opened eye for several minutes under running water.

#### · **After swallowing:**

Never give anything by mouth to an unconscious person.  
If swallowed and symptoms occur, consult a doctor.

#### · **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:** Treat symptomatically.

### 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:** No further relevant information.

#### · **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:** Keep away from ignition sources

· **Environmental precautions:** Dilute with plenty of water.

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

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

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:**

123-86-4	n-butyl acetate	5 ppm
919-30-2	3-aminopropyltriethoxysilane	1.9 mg/m <sup>3</sup>
540-97-6	Cyclohexasiloxane	150 mg/m <sup>3</sup>
556-67-2	Octamethylcyclotetrasiloxane	30 ppm

· **PAC-2:**

123-86-4	n-butyl acetate	200 ppm
919-30-2	3-aminopropyltriethoxysilane	21 mg/m <sup>3</sup>
540-97-6	Cyclohexasiloxane	1,700 mg/m <sup>3</sup>
556-67-2	Octamethylcyclotetrasiloxane	68 ppm

(Contd. on page 4)

· **PAC-3:**

123-86-4	n-butyl acetate	3000* ppm
919-30-2	3-aminopropyltriethoxysilane	350 mg/m <sup>3</sup>
540-97-6	Cyclohexasiloxane	9,900 mg/m <sup>3</sup>
556-67-2	Octamethylcyclotetrasiloxane	130 ppm

### \* 7 Handling and Storage

· **Handling**

· **Precautions for safe handling:** No special precautions are necessary if used correctly.

· **Information about protection against explosions and fires:** No special measures required.

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

· **Storage**

· **Requirements to be met by storerooms and receptacles:** Keep away from heat sources and sunlight.

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

· **Further information about storage conditions:** None.

· **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:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

**123-86-4 n-butyl acetate**

PEL Long-term value: 710 mg/m<sup>3</sup>, 150 ppm

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REL	Short-term value: 950 mg/m <sup>3</sup> , 200 ppm Long-term value: 710 mg/m <sup>3</sup> , 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm

· **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.

Wash hands before breaks and at the end of work.

· **Breathing equipment:** Not required. ·

· **Protection of hands:**



Protective gloves

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

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

(Contd. on page 5)

· **Eye protection:**



Goggles recommended during refilling.

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

## \* 9 Physical and Chemical Properties

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

· **General Information · Appearance:**

**Form:** Liquid

**Color:** Clear, Colorless

· **Odor:** Sweetish

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

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

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

· **Flash point:** None

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

· **Auto igniting:** Not applicable

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not self-igniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

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- **Vapor pressure:** Not determined.
- **Density @ 20 °C (68 °F):** 0.884 g/cm<sup>3</sup> (7.377 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.
- **Other information:** No further relevant information available.

### \* 10 Stability and Reactivity

- **Reactivity:** No further relevant information available. (Contd. on page 6)
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:** Avoid exposure to heat, open flame, and corrosives.
- **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:

#### 123-86-4 n-butyl acetate

Oral	LD50	13,100 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/l (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**

#### · 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:**

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· <b>Aquatic toxicity:</b>	
<b>123-86-4 n-butyl acetate</b>	
EC50	51.577 mg/l (Green algae) 17.594 mg/l (Daphnia)

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

(Contd. on page 7)

### 13 Disposal Considerations

#### · Waste treatment methods ·

#### **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

- **Waste disposal key:** US EPA RCRA waste code D001 (ignitability characteristic).

#### · Uncleaned packaging

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

#### · UN-Number:

· DOT, ADR/ADN, IMDG, IATA

UN1993

#### · UN proper shipping name:

· DOT

Flammable liquids, n.o.s. (Butyl acetates)

· ADR/ADN

UN1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES)

· IMDG, IATA

FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES)

#### · Transport hazard class(es):

· DOT



· Class:

3 Flammable liquids

· Label:

3

#### · ADR/ADN



· Class:

3 (F1) Flammable liquids

· Label:

3

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· **IMDG, IATA**



- **Class:** 3 Flammable liquids
- **Label:** 3
- **Packing group:** III
- **DOT, ADR/ADN, IMDG, IATA** III
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Warning: Flammable liquids
- **Hazard identification number (Kemler code):** 30
- **EMS Number:** F-E, S-E
- **Stowage Category** A

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- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

· **Transport/Additional information:**

- **DOT**
- **Quantity limitations:** On passenger aircraft/rail: 60 L  
On cargo aircraft only: 220 L

· **ADR/ADN**

- **Excepted quantities (EQ):** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

- **Limited quantities (LQ):** 5L
- **Excepted quantities (EQ):** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- **UN "Model Regulation":** UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES), 3, III

### 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):**

· <b>Section 355 (extremely hazardous substances):</b>		
None of the ingredients are listed.		
· <b>Section 313 (Specific toxic chemical listings):</b>		
None of the ingredients are listed.		
· <b>TSCA (Toxic Substances Control Act):</b>		
123-86-4	n-butyl acetate	ACTIVE
71750-80-6	Siloxanes and silicones, di-Me,[[[3-[(2-aminoethyl)amino]propyl]dimethoxysilyl]oxy]terminated	ACTIVE
475645-84-2	cyclosilazanes, di-Me, Me hydrogen, polymers with di-Me, Me hydrogen silazanes, reaction products with 3-(triethoxysilyl)-1-propanamine	ACTIVE



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919-30-2	3-aminopropyltriethoxysilane	ACTIVE
540-97-6	Cyclohexasiloxane	ACTIVE
556-67-2	Octamethylcyclotetrasiloxane	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.

· **Chemicals known to cause reproductive toxicity for males:**  
None of the ingredients are listed.

(Contd. on page 9)

· **Chemicals known to cause developmental toxicity:**  
None of the ingredients are listed.

· **New Jersey Right-to-Know List:**  
123-86-4 n-butyl acetate

· **New Jersey Special Hazardous Substance List:**  
123-86-4 n-butyl acetate F3

· **Pennsylvania Right-to-Know List:**  
123-86-4 n-butyl acetate

· **Pennsylvania Special Hazardous Substance List:**  
123-86-4 n-butyl acetate E

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**  
None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**  
None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**  
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:** Warning

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

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n-butyl acetate

#### · Hazard statements:

H226 Flammable liquid and vapor.  
H336 May cause drowsiness or dizziness.

#### · Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
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.  
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P312 Call a poison center/doctor if you feel unwell.  
P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
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:

#### · 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)  
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

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REL: Recommended Exposure Limit

Flammable Liquids 3: Flammable liquids – Category 3

Flammable Liquids 4: Flammable liquids – Category 4

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Aspiration Hazard 1: Aspiration hazard – Category 1

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

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