## Safety data sheet according to 1907/2006/EC, Article 31

Version number 102 Printing date 05.12.2016 Revision: 29.11.2016 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: CROMADEX ALU-ZINC 500 ML · Article number: AC000020 · 1.2 Relevant identified uses of the substance or mixture and uses advised against · Sector of Use SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen) • Product category PC9a Coatings and paints, thinners, paint removers · Process category **PROC7** Industrial spraying **PROC11** Non industrial spraying · Environmental release category ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) · Application of the substance / the mixture Paint  $\cdot$  1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Cromadex Unit 5 Redwood Business Park Oldbury Road Smethwick West Midlands B66 1NG Tel +44(0) 121 555 1500 Fax +44(0) 121 555 6708 Email: cromadex\_marketing@cromadex.com · Further information obtainable from: Department Product Safety • 1.4 Emergency telephone number: Tel: +44(0)121 555 1500 (08.00 / 17.00) SECTION 2: Hazards identification · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 GHS02 flame H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated. Aerosol 1 GHS09 environment Aquatic Chronic 2 H411 *Toxic to aquatic life with long lasting effects.* GHS07 Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness. · 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

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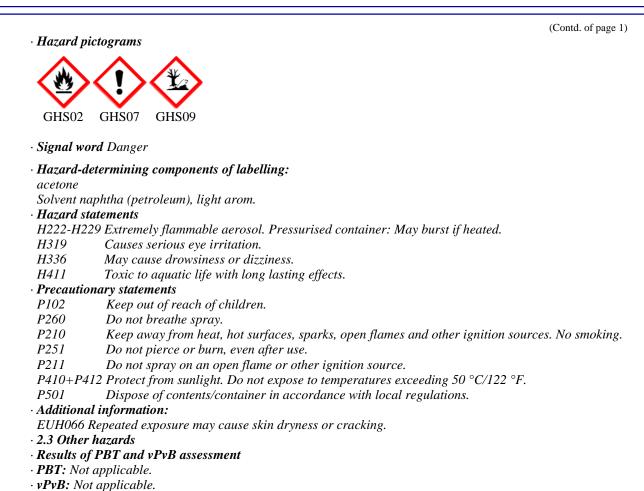
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## SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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CAS: 115-10-6	dimethyl ether	25-50%
EINECS: 204-065-8	🚸 Flam. Gas 1, H220	
Index number: 603-019-00-8	Press. Gas C, H280	
Reg.nr.: 01-2119472128-37-xxx	x	
CAS: 67-64-1	acetone	20-25%
EINECS: 200-662-2	🐼 Flam. Liq. 2, H225	
Index number: 606-001-00-8	🚯 Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119471330-49-xxx	x	
EC number: 918-668-5	Solvent naphtha (petroleum), light arom.	12.5-20%
Reg.nr.: 01-2119455851-35-xxx	x 🐼 Flam. Lig. 3, H226	
	💩 Asp. Tox. 1, H304	
	🚯 Aquatic Chronic 2, H411	
	🚯 STOT SE 3, H335-H336	
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Trade name: CROMADEX ALU-ZINC 500 ML

CAS: 7440-66-6		ntd. of page 2 5-10%
EINECS: 231-175-3 Index number: 030-001-01-9 Reg.nr.: 01-2119467174-37-xxxx	zinc powder -zinc dust (stabilized) � Aquatic Acute 1, H400; Aquatic Chronic 1, H410	5-1070
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6 Reg.nr.: 01-2119529243-45-xxxx	aluminium powder (pyrophoric) Ø Pyr. Sol. 1, H250; Water-react. 2, H261	2.5-5%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32-xxxx	xylene Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-5%
CAS: 1314-13-2 EINECS: 215-222-5 Index number: 030-013-00-7 Reg.nr.: 01-2119463881-32-xxxx	zinc oxide S Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1-1%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

· After inhalation: Supply fresh air; consult doctor in case of complaints.

- $\cdot$  After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

 $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

## **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation
- Keep away from ignition sources.
- · 6.2 Environmental precautions:
- Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about fire and explosion protection: Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
  Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Protect from heat and direct sunlight.
- 7.3 Specific end use(s) No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:
   115-10-6 dimethyl ether
   WEL Short-term value: 958 mg/m<sup>3</sup>, 500 ppm Long-term value: 766 mg/m<sup>3</sup>, 400 ppm

#### 67-64-1 acetone

WEL Short-term value: 3620 mg/m<sup>3</sup>, 1500 ppm Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm

#### 1330-20-7 xylene

WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppm Long-term value: 220 mg/m<sup>3</sup>, 50 ppm Sk; BMGV

#### · Ingredients with biological limit values:

1330-20-7 xylene

BMGV 650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

• Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

· Personal protective equipment:

- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.
- **Respiratory protection:** Not required.

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- · Protection of hands: Not required.
- · Material of gloves Not required.
- · Penetration time of glove material Not required.
- $\cdot$  Eye protection:



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Tightly sealed goggles

9.1 Information on basic physical an	d chemical properties
General Information Appearance:	
Form:	Aerosol
Colour:	Silver-coloured
Odour:	Solvent-like
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.
Flash point:	$<0 \ ^{\circ}C \ (<32 \ ^{\circ}F)$
	Not applicable, as aerosol.
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	240 °C (464 °F)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	<i>Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.</i>
Explosion limits:	
Lower:	0.7 Vol %
Upper:	26.2 Vol %
Vapour pressure at 20 $^{\circ}C$ (68 $^{\circ}F$ ):	4000 hPa (3000 mm Hg)
Density at 20 °C (68 °F):	0.865 g/cm <sup>3</sup> (7.218 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	00 ( 0 /
Organic solvents:	80.6 %
EU-VOC: EU-VOC in %:	697.0 g/l 80.57 %

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· Solids content:

24.8 %

• 9.2 Other information

 $No\ further\ relevant\ information\ available.$ 

## SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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

• 10.3 Possibility of hazardous reactions No dangerous reactions known.

• 10.4 Conditions to avoid No further relevant information available.

 $\cdot$  10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:		
115-10-6 dimethyl ether		
Inhalative	LC50 / 4 h	308 mg/m3 (rat)
67-64-1 ac	etone	
Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)
Inhalative	LC50/4 h	39 mg/m3 (rat)
Solvent naphtha (petroleum), light arom.		
Oral	LD50	3592 mg/kg (rat) (OECD401)
Dermal	LD50	>3160 mg/kg (rab) (OECD402)
Inhalative	LC50 / 4 h	>6193 mg/m3 (rat)
1330-20-7 xylene		
Oral	LD50	3523 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	22.1 mg/m3 (rat)
64742-48-9 Naphtha (petroleum), hydrotreated heavy		
Oral	LD50	>15000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
Inhalative	LC50 / 4 h	>2.8 mg/m3 (rat)
1314-13-2	zinc oxide	
Oral	LD50	7950 mg/kg (mouse)
Inhalative	LC50	2500 mg/m3 (mouse)
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· Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

 $\cdot$  Serious eye damage/irritation

Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

 $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$ 

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- · STOT-single exposure
- May cause drowsiness or dizziness.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

· 12.1 Toxicity
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115-10-6 dimethyl	
EC50 / 48 h	>4000 mg/l (daphnia magna)
67-64-1 acetone	
EC50 / 48 h	8800 mg/l (daphnia magna)
LC50 / 48 h	2262 mg/l (daphnia magna)
LC50 / 96 h (static)	) 5540 mg/l (fish)
Solvent naphtha (petroleum), light arom.	
EC50 / 24 h	150 mg/l (daphnia magna)
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50/96 h	3.77 mg/l (fish)
7440-66-6 zinc pow	vder -zinc dust (stabilized)
EC50 / 48 h	2.8 mg/l (daphnia magna)
LC50/96 h	0.57 mg/l (daphnia magna)
1330-20-7 xylene	
EC50 / 48 h	7.4 mg/l (daphnia magna)
LC50/96 h	13.5 mg/l (fish)
1314-13-2 zinc oxide	
LC50	2.5 mg/l (mouse)

· 12.4 Mobility in soil No further relevant information available.

· Ecotoxical effects:

· Remark: Toxic for fish

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

· 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

· vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

08 01 11\* waste paint and varnish containing organic solvents or other hazardous substances

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Trade name: CROMADEX ALU-ZINC 500 ML

15 01 04 metallic packaging

· Uncleaned packaging:

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· Recommendation: Non contaminated packagings may be recycled.

UN1950
1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS AEROSOLS (Solvent naphtha (petroleum), light arom., zinc powder -zinc dust (stabilized)), MARINE POLLUTANT AEROSOLS, flammable
ALKOSOLS, Juliinuole
2 5F Gases.
2.1
2.1
2.1
2.1
2.1
Void
<i>Product contains environmentally hazardous substances: zinc powder -zinc dust (stabilized)</i>
No Symbol (fish and tree)
Symbol (fish and tree)
Warning: Gases. - F-D,S-U
-

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· Stowage Code · Segregation Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
· 14.7 Transport in bulk according to Anne Marpol and the IBC Code	e <b>x II of</b> Not applicable.
· Transport/Additional information:	
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· Transport category · Tunnel restriction code	2 D
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

#### **SECTION 15: Regulatory information**

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Seveso category

P3a FLAMMABLE AEROSOLS

E2 Hazardous to the Aquatic Environment

 $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t

 $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H220 Extremely flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H250 Catches fire spontaneously if exposed to air.
H261 In contact with water releases flammable gases.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.

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<ul> <li>H319 Causes serious eye irritation.</li> <li>H332 Harmful if inhaled.</li> <li>H335 May cause respiratory irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>Department issuing SDS: R&amp;D legislation and regulatory advisor</li> <li>Contact: QHSE Department</li> <li>Abbreviations and acronyms:</li> <li>RD: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organisation</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Civil Aviation Organisation</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organisation</li> <li>ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Civil Aviation Organisation</li> <li>MDG: International Maritime Code for Dangerous Goods</li> <li>MTA: International Air Transport Association</li> <li>MDG: Stocobally Harmonised System of Classification and Labelling of Chemicals</li> <li>ELINCS: European Introv of Stisting Commercial Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>ELINCS: European Cumentaria of the American Chemical Society)</li> <li>LCS0: Lethal dose, 50 percent</li> <li>PBT: Persistent, Bioaccumulative and Toxic</li> <li>PvFB: very Persistent and very Bioaccumulative</li> <li>Flam. Lig. 2: Flammable liquids – Category 1</li> <li>Press. Gas C: Gases and nistures which in contact with water emit flammable gases – Category 2</li> <li>Kean Crease L: Substances and ni</li></ul>	(Contd. of page 9
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H336 May cause drowsines's or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. Department issuing SDS: R&D legislation and regulatory advisor Contact: QHSE Department Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Triansport of Dangerous Goods by Rail) ICAO: International Aritime Code for Dangerous Goods IATA: International Martime Code for Dangerous Goods IATA: International Aritime Code for Dangerous Goods IATA: International Abstrates Service (division of the American Chemical Substances ELINCS: European Inventors, 50 percent DBT: Persistent, Bioaccumulative and Toxic Verbi: very Persistent and very Bioaccumulative IFIM: Gas I: Flammable gases – Category I Press. Gas C: Gases under pressure – Compressed gas Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 2:	on.
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