Safety data sheet

according to 1907/2006/EC, Article 31, as amended by UK REACH Regulation SI 2019/758

Printing date 30.11.2022 Version number 1 Revision: 30.11.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: ZINC PAINT

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the preparation:
Paint
Hand-held pre-pressurised aerosol

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
One Stop Sourcing & Supply Co.
Homefield Road, Haverhill, Suffolk, CB9 8QP
United Kingdom
T: 01440 712060
E: sales@osssc.com

1.4 Emergency telephone number(s):

NHS Direct: 111
National Poisons Information Service (NPIS): 0121 507 4123 (healthcare professionals only).
Ireland - National Poisons Information Centre: 01 837 9964 or 01 809 2566 (healthcare professionals only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Water-react. 1	H260	In contact with water releases flammable gases which may ignite spontaneously.
Eye Irrit. 2	H319	Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008:
The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms:

GHS02 GHS07

Signal word: Danger

Hazard statements:

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H319	Causes serious eye irritation.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P223	Do not allow contact with water.
P251	Do not pierce or burn, even after use.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

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P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:
Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

Description: Mixture consisting of the following components.

Hazardous components:		
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	20-30%
CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6	aluminium Pyr. Sol. 1, H250; Water-react. 2, H261	10-20%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	ethyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	10-15%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	5-10%
CAS: 79-20-9 EINECS: 201-185-2 Index number: 607-021-00-X	methyl acetate Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	5.1-9.1%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	2.5-3.5%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0	2-butoxyethanol Acute Tox. 3, H311; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg	1-3%

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:
Move patient to fresh air, if symptoms persist consult a doctor.
Butane asphyxiation will precede any toxicological effects of the active elements.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
Repeated contact may cause skin dryness and cracking.

After eye contact:
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention.
NEVER PUT AEROSOLS NEAR EYES/MUCOUS MEMBRANES

After swallowing:
Call for a doctor immediately.

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May cause nausea and discomfort. Perform gastric lavage to reduce discomfort.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
Hazards Serious eye irritation

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, sand, extinguishing powder. Do not use water.
Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents: Water.

5.2 Special hazards arising from the substance or mixture
Pressurized aerosols should not be exposed to temperatures above 50°C. Beyond this, containers may explode and the resulting flammable mixture will burn to produce CO2.

5.3 Advice for firefighters

Protective equipment:
Wear a positive pressure self-contained breathing apparatus
Wear fully protective suit.

Additional information: Avoid contamination of water courses when damaged stock is leaking.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Keep away from ignition sources.
Ensure adequate ventilation.
Use personal protective equipment. Keep unprotected persons away.

6.2 Environmental precautions Do not allow product to reach sewage system or any water course.

6.3 Methods and material for containment and cleaning up
In small quantities, any liquid should be absorbed in a suitable medium, such as sand, and disposed of safely. The residue should be washed off with soapy water, although staining is to be expected.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
Dispose contaminated material as waste according to item 13.

6.4 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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
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.
Do not spray onto a naked flame or any incandescent material.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:
Observe official regulations on storing packagings with pressurised containers.
Do not store near heat sources or expose to high temperatures. Keep away from heat, sparks and open flame.

Information about storage in one common storage facility: Avoid contamination with other products.

Further information about storage conditions:
Keep container tightly closed.
Store in cool, dry conditions in well sealed receptacles.
Protect from humidity and water.
Containers will not last indefinitely even when stored in a cool, dry place, they should be inspected periodically during long term storage.

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

SECTION 8: Exposure controls/personal protection

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/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm
141-78-6 ethyl acetate	
WEL	Short-term value: 1468 mg/m³, 400 ppm Long-term value: 734 mg/m³, 200 ppm
123-86-4 n-butyl acetate	
WEL	Short-term value: 966 mg/m³, 200 ppm Long-term value: 724 mg/m³, 150 ppm
79-20-9 methyl acetate	
WEL	Short-term value: 770 mg/m³, 250 ppm Long-term value: 616 mg/m³, 200 ppm
67-64-1 acetone	
WEL	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
111-76-2 2-butoxyethanol	
WEL	Short-term value: 246 mg/m³, 50 ppm Long-term value: 123 mg/m³, 25 ppm Sk, BMGV

Ingredients with biological limit values:	
111-76-2 2-butoxyethanol	
BMGV	240 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: butoxyacetic acid

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

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Avoid contact with the eyes and skin.

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Ensure good ventilation/exhaustion at the workplace.

Respiratory protection:
In case of brief exposure use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Use organic/inorganic vapor filters. Vapors may cause drowsiness or dizziness.

Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/the preparation/ the chemical mixture.
Select the glove material based on a consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:
The exact break through time must be determined by the manufacturer of the protective gloves.

Eye/face protection

Safety glasses with side-shields (EN 166).

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state	Aerosol.
Colour:	White.
Odour:	Undetermined
Odour threshold:	Not determined.
Melting point/freezing point:	<-20 °C
Boiling point or initial boiling point and boiling range	>60 °C
Flammability	Contact with water liberates extremely flammable gases.
Lower and upper explosion limit	
Lower:	1.2 Vol % (123-86-4 n-butyl acetate)
Upper:	18.6 Vol % (115-10-6 dimethyl ether)
Flash point:	0 °C
Ignition temperature:	235 °C (115-10-6 dimethyl ether)
Decomposition temperature:	Not determined.
pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
VOC (EC):	
Dynamic:	Not determined.
Solubility	
Water:	Insoluble.

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Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	5,200 hPa (115-10-6 dimethyl ether)
Density and/or relative density	
Density:	Not determined.
Relative density	1.02 kg/m³
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Aerosol.
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
Solids content:	10-20 %
Softening point/range	
Oxidising properties	Not determined.
Evaporation rate	Not applicable.
Information with regard to physical hazard classes	
Explosives	Not applicable.
Flammable gases	Not applicable.
Aerosols	Extremely flammable aerosol. Pressurised container: May burst if heated.
Oxidising gases	Not applicable.
Gases under pressure	Not applicable.
Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophoric solids	Not applicable.
Self-heating substances and mixtures	Not applicable.
Substances and mixtures, which emit flammable gases in contact with water	In contact with water releases flammable gases which may ignite spontaneously.
Oxidising liquids	Not applicable.
Oxidising solids	Not applicable.
Organic peroxides	Not applicable.
Corrosive to metals	Not applicable.
Desensitised explosives	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

The container is inherently stable under the prescribed conditions for a reasonable period of time (at least 24-25 months).

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

10.3 Possibility of hazardous reactions

Contact with water releases flammable gases.
Container corrosion can occur over time and damaged containers should be disposed of before a hazard arises.

10.4 Conditions to avoid

Keep away from sources of ignition.
Avoid high temperatures.
Extreme heat
Keep away from heat and direct sunlight.

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Avoid contact with acids
Avoid exposure to moist air or water.
Avoid freezing

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products No further relevant information available.
Additional information: Avoid sudden shocks, which can damage the integrity of the container.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

LD/LC50 values:		
115-10-6 dimethyl ether		
Inhalative	LC50/4h	308 mg/L (Rat)
141-78-6 ethyl acetate		
Oral	LD50	5,620 mg/kg (Rabbit)
Inhalative	LC50/4h	1,600 mg/L (Rat)
123-86-4 n-butyl acetate		
Oral	LD50	13,100 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (Rabbit)
Inhalative	LC50/4h	>21 mg/L (Rat)
79-20-9 methyl acetate		
Oral	LD50	3,705 mg/kg (Rabbit)
67-64-1 acetone		
Oral	LD50	5,800 mg/kg (Rat)
Dermal	LD50	20,000 mg/kg (Rabbit)
111-76-2 2-butoxyethanol		
Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (Rat)
Dermal	LD50	400 mg/kg (rab)

Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
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.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties
None of the ingredients are listed.

11.2.2 Other information
Deliberate inhalation may cause severe pulmonary and breathing difficulty, dizziness, drowsiness (narcosis) and headaches. This will constitute abuse.
Skin and eye irritation may result from continued exposure to vapors when used in areas of poor ventilation, or when working in close proximity to the spray for prolonged periods, and suitable steps should to avoid such conditions.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
115-10-6 dimethyl ether	
LC50	13,000 mg/L (Fish)
NOEC/48h	>4,000 mg/L (Fish)
111-76-2 2-butoxyethanol	
LC50/96h	1,490 mg/L (Lepomis Macrochirus)
EC50	>700 mg/L (Pseudomonas Putida)
EC50/24h	1,815 mg/L (Daphnia Magna)

12.2 Persistence and degradability
The degradation will be relatively slow but eventually almost complete.

12.3 Bioaccumulative potential Accumulation is unlikely once physical failure begins.

12.4 Mobility in soil Mobility will be very slow.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

12.6 Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional environmental information:
Short and long term effects should not be considered significant. Very short term damage to aquatic and soil organisms may occur with a large spill (over 1000 containers), although this should disperse quickly (especially if absorbent material is used).
The product will evaporate quickly in the air. A colored liquid, easily absorbed, will evaporate and leave a solid. The solid will present no other significant hazard, with no hazard resulting from degradation.

General notes:
Water hazard class 1 (German Regulation) (Self-assessment): Slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation:
Disposal must be made in accordance with official regulations.
Do not allow product to reach sewage system.
Do not puncture or incinerate/burn even after use.

Uncleaned packaging:
Recommendation:
Disposal must be made in accordance with official regulations.
Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA UN1950

14.2 UN proper shipping name
ADR 1950 AEROSOLS
IMDG, IATA AEROSOLS

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14.3 Transport hazard class(es)

ADR, IMDG, IATA

Class	4.3 Substances which, in contact with water, emit flammable gases.
Label	4.3

14.4 Packing group

ADR, IMDG, IATA	II

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Warning: Substances which, in contact with water, emit flammable gases.

Hazard identification number (Kemler code):	429
EMS Number:	F-D,S-U
Stowage 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.
Segregation Code	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 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

ADR

Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

IMDG

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

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 are listed.

Seveso category

O2 Substances and mixtures which in contact with water emit flammable gases

P3a FLAMMABLE AEROSOLS

Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t

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

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REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 40

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients are listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients are listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS	
67-64-1	acetone

Regulation (EC) No 273/2004 on drug precursors		
67-64-1	acetone	3

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors		
67-64-1	acetone	3

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.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
EUH066 Repeated exposure may cause skin dryness or cracking.
Date of previous version: 28.11.2022

Abbreviations and acronyms:
WEL: Workplace Exposure Limits
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Pyr. Sol. 1: Pyrophoric solids – Category 1
Water-react. 1: Substances and mixtures which in contact with water emit flammable gases – Category 1
Water-react. 2: Substances and mixtures which in contact with water emit flammable gases – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3