

SAFETY DATA SHEET

1 IDENTIFICATION OF SUBSTANCES / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifiers

Product Name: RUST-ANODE ZINC PRIMER

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

Identified uses: Anti-corrosion coating for steel (Paint).
Uses advised against: This MSDS only applies to the uses identified above

1.3 Details of the supplier of the safety data sheet

Manufacturer: C & P DEVELOPMENT CO (LONDON) LTD
ADDRESS: UNIT 25
CRADLE HILL INDUSTRIAL ESTATE
SEAFORD
EAST SUSSEX
BN25 3JE

Fax +44 (0) 1323 872874
E-mail capdevco@aol.com

1.4 Emergency telephone number

Telephone +44 (0) 1323 872875 (09:00 – 17:00 Monday to Friday)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This material is a mixture

Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) and GHS

Flammable Liquid (Category 3)
Specific Target Organ Toxicity - Repeated Exposure (Category 1)
Aspiration Toxicity (Category 1)
Skin Irritant (Category 2)
Acute aquatic toxicity (category 1)
Chronic aquatic toxicity (category 1)

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008 (EU 'CLP' regulation)

Pictogram(s)



Signal word(s)

Danger

Warning

Warning

Hazard statement(s)

H226 Flammable liquid and vapour
H372 Causes damage to Central Nervous System through prolonged or repeated exposure
H304 May be fatal if swallowed and enters airways
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long term effects

Contains: Solvent naphtha (petroleum, medium aliphatic)

Precautionary statements(s)

P260	Do not breathe vapour/spray.
P314	Get medical advice/attention if you feel unwell.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P280	Wear protective gloves/protective clothing/eye protection/ face protection
P273	Avoid release to the aquatic environment

2.3 Other hazards

None

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixture

This material is a mixture.

Hazardous substances present at or above threshold limits, or with an occupational exposure limit:

Chemical name	CAS No	EC Number	%
Solvent naphtha (petroleum), medium aliph.	64742-88-7	265-191-7	>10%
<i>Hazard Classification:</i>			
Specific Target Organ Toxicity - Repeated Exposure (Category 1) H304 May be fatal if swallowed and enters airways			
Aspiration Toxicity (Category 1) H372 Causes damage to Central Nervous System through prolonged or repeated exposure			
Xylene	1330-20-7	215-535-7	<10%
<i>Hazard Classification:</i>			
Flammable Liquid (category 3)		H226 Flammable liquid and vapour	
Acute Toxicity, Inhalation (category 4)		H332 Harmful if inhaled	
Acute Toxicity, dermal (category 4)		H312 Harmful in contact with skin	
Skin irritant (category 2)		H315 Causes skin irritation	
Zinc Powder	7440-66-6	231-175-3	>20%
<i>Hazard Classification:</i>			
Acute aquatic toxicity (category 1)		H400 Very toxic to aquatic life	
Chronic aquatic toxicity (category 1)		H410 Very toxic to aquatic life with long term effects	
Calcium Oxide	1305-78-8	215-138-9	<1%
<i>Hazard Classification:</i>			
Skin irritant (category 2)		H315 Causes skin irritation	
Serious eye damage (category 1)		H318 Causes serious eye damage	
Specific Target Organ Toxicity – single exposure (category 3), Respiratory system H335 May cause respiratory irritation			
Acetone	67-64-1	200-662-2	<1%
<i>Hazard Classification:</i>			
Flammable Liquid (category 2)		H225 Highly flammable liquid and vapour	
Eye irritant (category 2)		H319 Causes serious eye irritation	
Specific Target Organ Toxicity – single exposure (category 3) H336 May cause drowsiness or dizziness			

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Remove from source of exposure.
Minimise exposure of first aiders to product.

Inhalation

Move person to fresh air. If person experiences irritation or difficulty breathing seek medical advice

Ingestion

Seek IMMEDIATE medical attention. DO NOT INDUCE VOMITING.
If the person vomits, keep the head low to avoid vomit entering the lungs.
Move person to fresh air, keep warm and at rest.
Wash out mouth with water. Make affected person drink plenty of water.

Skin contact

Remove contaminated clothing.
Wash area with water and soap. Seek medical attention if any irritation persists.

Eye contact

Wash out with plenty of water. After initial flushing, remove any contact lenses and continue flushing. See medical advice in the event of irritation or other health effects.

4.2 Most important symptoms and effects, both acute and delayed

Prolonged exposure will damage the Central Nervous System.

4.3 Indication of any immediate medical attention and special treatment needed

In the event of ingestion seek IMMEDIATE medical attention. If the product enters the lungs it can be fatal.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Foam, water spray, dry material. Avoid water jet as this may disperse burning material.

5.2 Special hazards arising from the substances or mixture

Organic vapours, organic decomposition products, carbon oxides and zinc oxides may be formed in a fire situation

5.3 Advice for fire fighters

Use self-contained breathing apparatus.
If a significant quantity of product is involved, prevent fire-fighting water from entering watercourses, drains or the sewage system (environmental pollutant).

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For Personal protective Equipment (PPE) see section 8.

Evacuate personnel from area of spillage.
Avoid breathing vapour.

6.2 Environmental precautions

Prevent significant quantities from entering the sewage system, surface water drains, streams, rivers or other waterways.
Inform relevant authorities if the material does enter the above systems.

6.3 Methods and material for containment and cleaning up

Absorb onto inert material (sand, vermiculite, absorbent granules).
Use shovels to transfer all material into labelled, sealable containers.
Do not wash residues from spillage to drain with water

6.4 Reference to any other sections

See section 2 for information on hazards.
See sections 7 and 8 for information on safe handling of the product.
See section 13 for disposal information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Minimise exposure to vapour. Use in a well ventilated area.
If a significant quantity of material is to be used, consider forced ventilation or the use of extraction equipment.
If respiratory irritation or headaches are experienced, or if there is a persistent strong smell of solvent, then wear a respirator.
Minimise skin contact. Wear chemically impervious gloves if necessary.
Prevent eye contact – wear safety glasses.
Do not eat, drink or smoke while using material. Wash hands after use.
Follow good hygiene practices: do not eat, drink or smoke in the workplace. Wash hands after use.
Remove contaminated clothing before entering eating areas.
See section 8 for information on Personal Protective Equipment

7.2 Conditions for safe storage, including any incompatibilities

Keep in a cool dry place
Keep only in the original containers. Keep containers tightly closed during storage.
Do not store in plastic containers. Plastic containers may soften or fail if used to store this product.
Store away from heat sources.
Store away from ignition sources

7.3 specific end use(s)

None identified

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

The minimum level of control that should be undertaken is to comply with the UK Workplace Exposure Limits:

Xylene	50 ppm / 220 mg/m ³ 100 ppm / 441 mg/m ³	LTEL (8hr TWA) STEL (15 min ref period)
This material is harmful by skin inhalation.		
Solvent naphtha (petroleum), medium aliph.:	100 ppm / 556 mg/m ³ 150 ppm / 850 mg/m ³	LTEL (8hr TWA) STEL (15 min ref period)
Calcium Oxide:	2 mg/m ³	LTEL (8hr TWA)
Acetone:	500 ppm / 1210 mg/m ³ 1500 ppm / 3620 mg/m ³	LTEL (8hr TWA) STEL (15 min ref period)

Exposure should not exceed these levels

Derived No (Minimal) Effect Levels – DN(M)ELs

No information is currently available for this mixture.

Workers

Acute / short-term exposure - systemic effects

Dermal DN(M)EL	No information available
Inhalation DN(M)EL	No information available

Acute / short-term exposure - local effects

Dermal DN(M)EL	No information available
Inhalation DN(M)EL	No information available
Long-term exposure - systemic effects	
Dermal DNEL	No information available
Inhalation DNEL	No information available
Long-term exposure - local effects	
Dermal DN(M)EL	No information available
Inhalation DN(M)EL	No information available

General population

Acute / short-term exposure - systemic effects

Dermal DN(M)EL	No information available
Inhalation DN(M)EL	No information available
Oral DN(M)EL	No information available

Acute / short-term exposure - local effects

Dermal DN(M)EL	No information available
Inhalation DN(M)EL	No information available

Long-term exposure - systemic effects

Dermal DNEL	No information available
Inhalation DNEL	No information available
Oral DNEL	No information available

Long-term exposure - local effects

Dermal DN(M)EL	No information available
Inhalation DN(M)EL	No information available

Predicted No Effect Concentrations - PNECs

PNEC aqua (freshwater)	No information available
PNEC aqua (marine water)	No information available
PNEC STP	No information available
PNEC sediment (freshwater)	No information available
PNEC sediment (marine water)	No information available
PNEC soil	No information available
PNEC oral	No information available

8.2 Exposure controls

Appropriate engineering controls

If the occupational exposure limit is likely to be exceeded use ventilation (natural or forced) or extraction to reduce exposure to below the limit.

Personal protective equipment

Respiratory protection:

If respiratory irritation or headaches are experienced, or if there is a persistent strong smell of solvent, use an EN149 approved respirator fitted with an organic vapour filter (type A). The correct selection, fitting, use, storage and maintenance of respiratory protective equipment is important. Follow manufacturer's recommendation or seek expert advice. HSE document HSG 53 provides some guidance.

Hand protection:

Wear chemically impervious gloves suitable for use with organic solvents (Xylene and hydrocarbons) e.g. Nitrile, PVC gloves. Follow manufacturer's recommendations on inspection and replacement.

Skin protection:

Long sleeved clothing. Replace contaminated clothing before skin contact.

Eye protection:

Wear EN approved safety glasses, goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemicals properties

Appearance:	Viscous grey liquid
Odour:	Aromatic / solvent .
Odour threshold:	Not available
pH:	Not available
Melting point:	Not available
Boiling point:	150 – 180 °C
Flash point:	36°C (Abel Closed Cup)
Evaporation rate	0.20 (n-butyl acetate =1)
Flammability	Flammable
Upper/lower explosive limits	0.6 / 7%
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Bulk density:	2.12 g/cm ³
Solubility in water:	Not soluble
Solubility in other	
Ingredients:	Not available
Partition coefficient	
Octanol/water:	Not available
Auto-ignition temperature	>450°C
Decomposition temperature	Not available
Viscosity	6 poise
Explosion properties:	Not available
Oxidising properties:	Not available

9.2 Other information

Volatile Organic Compound: 514 grams per / litre

10 STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive to metals commonly used in the transportation, handling and storage of industrial materials. Can soften or dissolve plastics.

10.2 Chemical stability

Stable at room temperature. Contains volatile organic solvents.

10.3 Possibility of hazardous reactions

None

10.4 Conditions to avoid

Keep away from acids, bases and oxidising agents

10.5 Incompatible materials

Acids, bases and oxidising agents

10.6 Hazardous decomposition products

Organic vapours, organic decomposition products, carbon oxides and zinc oxides may be formed in a fire situation.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	data not available for mixture
Skin corrosion/irritation	data not available for mixture. One component (Xylene is classified as having this hazard)
Serious eye damage/ eye irritation	data not available for mixture
Respiratory or skin sensitisation	data not available for mixture.
Germ cell mutagenicity	no data available.
Carcinogenicity	no components classified as carcinogenic.
Reproductive toxicity	no components classified as reproductive toxicants.
Specific target organ toxicity – Single exposure	data not available for mixture. One component (Xylene is classified as having this hazard)
Specific target organ toxicity – Repeated exposure	Classified as category 1.
Aspiration hazard	Classified as category 1.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Ecological toxicity is primarily due to the presence of zinc powder.

Data for Zinc Powder:

Acute toxicity for fish (<i>Oncorhynchus mykiss</i>)	LC(50) (96h)	0.41 mg/L
Acute toxicity for crustacea (<i>Simocephalus vetulus</i>)	EC(50) (48h)	847 µg/L
Acute toxicity for algae (<i>Pseudokirchneriella</i>)	EC(50) (72h)	347 µg/L

M factor (Acute) 1

M factor (Chronic) 1

12.2 Persistence and biodegradability

This product is not biodegradable.

12.3 Bioaccumulative potential

Data not available.

12.4 mobility in soil

Data not available.

12.5 Results of PBT and vPvB assessment

No components are classified as PBT or vPvB.

12.6 Other adverse effects

Data not available

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Dispose of as hazardous waste in accordance with local / national legislation.
European waste code will depend upon the use of the material and cannot be specified here.

Packaging

Clean, uncontaminated packaging can be recycled.
Packaging contaminated with the product must be disposed of as hazardous waste.

14 TRANSPORT INFORMATION

14.1 UN number

1263

14.2 UN proper shipping name

ADR/RID: PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))
ADNR: PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))
IMDG: PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))
IATA: PAINT RELATED MATERIAL (ZINC POWDER - ZINC DUST (STABILISED))

14.3 Transport hazard class(s)

ADR/RID: 3 ADNR: 3 IMDG: 3.3 IATA: 3

14.4 Packing group

ADR/RID: 111 ADNR: 111 IMDG: 111 IATA: 111

14.5 Environmental hazards

ADR/RID: yes ADNR: yes IMDG: Marine pollutant, Yes IATA: yes

14.6 Special precautions for user

None identified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code: not applicable

15 REGULATORY INFORMATION

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended by regulation (EU) No 453/2010.

The Workplace exposure Limit given in section 8 has been taken from the UK HSE document: EH40/2005 Workplace exposure limits as amended.

Relevant regulations:

Regulation (EC) 1272/2008 (EU 'CLP' regulation)
Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EU) No 286/2011 Second Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EU) No 618/2012 Third Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EU) No 487/2013 Fourth Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EU) No 944/2013 Fifth Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EU) No 605/2014 Sixth Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EU) No 2015/1221 Seventh Adaptation to Technical Progress (ATP) for CLP regulation
Regulation (EC) No 1907/2006 ('REACH')
Regulation (EU) No 453/2010.

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

None identified

15.2 Chemical safety assessment

Chemical Safety Assessment has not been undertaken for this material.

16 OTHER INFORMATION

Changes in SDS since previous version:

- Complete revision of all sections.

The information contained in the Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.