

Safety Data Sheet

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: QUAD 8 H.B. ZINC PHOSPHATE PRIMER

Relevant identified uses of the substance or mixture and uses advised against: Surface coating. No uses advised against.

Supplier: Craig and Rose Ltd
Company No.: 09968464
Street Address: Unit 8, Halbeath Industrial Estate,
Crossgates Road, Halbeath,
Dunfermline,
Fife, KY11 7EG
Scotland
Telephone: 0800 085 6278
Email: enquiries@craigandrose.com

Emergency Telephone number: 0800 085 6522

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: This material is classified as hazardous according to the criteria of Regulation (EC) No. 1272/2008 (CLP).

Hazard Classifications

Flammable Liquids - Category 3
Sensitisation - Skin - Category 1A
Specific Target Organ Toxicity (Single Exposure) - Category 3 Narcotic Effects
Specific Target Organ Toxicity (Repeated Exposure) - Category 2
Chronic Hazard to the Aquatic Environment - Category 2

Label Elements

Hazard Pictogram(s)



Signal Word

Warning

Hazard Statements

H226 Flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements

P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.

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P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, lighting and all other equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe fume, gas, mist, vapours or spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing including eye/face protection and suitable respirator.

Response Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse
P391	Collect spillage.

Storage Precautionary Statements

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal Precautionary Statement

P501	Dispose of contents/container in accordance with local, regional, national and international regulations.
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Supplemental hazard information:

Not applicable

Other hazards:

Not applicable

3. COMPOSITION INFORMATION

Name	CAS No.	EC No.	Proportion (% w/w)	Classification
Naphtha, petroleum, hydrotreated heavy	64742-48-9	919-857-4	10 - 30	Flammable liquid – Category 3 - H226 Aspiration toxicity - Category 1 - H304 Specific target organ toxicity, single exposure – Category 3 (narcotic) - H336
Zinc phosphate	7779-90-0	231-944-3	10 - 30	Acute hazard to the aquatic environment – Category 1 – H400 Chronic hazard to the aquatic environment – Category 1 – H410

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Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	919-446-0	1 - 10	Flammable liquid – Category 3 - H226 Aspiration toxicity - Category 1 - H304 Specific target organ toxicity, single exposure – Category 3 (narcotic) - H336 Specific target organ toxicity, repeat exposure – Category 1 Chronic hazard to the aquatic environment – Category 2 – H411
Hydrocarbons, C9, aromatics	-	918-668-5	1 - 10	Flammable liquid – Category 3 - H226 Aspiration toxicity - Category 1 - H304 Specific target organ toxicity, single exposure – Category 3 (respiratory tract) - H335 Specific target organ toxicity, single exposure – Category 3 (narcotic) - H336 Chronic hazard to the aquatic environment – Category 2 – H411
Xylene	1330-20-7	215-535-7	1 - 10	Flammable liquid – Category 3 - H226 Aspiration toxicity - Category 1 - H304 Acute toxicity – Category 4 – derma I- H312 Acute toxicity – Category 4 – inhalation – H331 Skin Corrosion/Irritation - Category 2– H315 Serious Eye Damage/Irritation - Category 2 – H319 Category 3 (respiratory tract) - H335 Specific target organ toxicity, single exposure – Category 3 (narcotic) - H336 Specific target organ toxicity, repeat exposure – Category 2 Chronic hazard to the aquatic environment – Category 3 – H412
Zinc Oxide (ZnO)	1314-13-2	215-222-5	1 - 10	Acute hazard to the aquatic environment – Category 1 – H400 Chronic hazard to the aquatic environment – Category 1 – H410
Hydrocarbons, C9-12, n-alkanes, isoalkanes, cyclics, (2- 25%) aromatics	-	919-446-0	0.5 – 3.0	Flammable liquid – Category 3 - H226 Aspiration toxicity - Category 1 - H304 Specific target organ toxicity, single exposure – Category 3 (narcotic) - H336 Specific target organ toxicity, repeat exposure – Category 1 Chronic hazard to the aquatic environment – Category 2 – H411
Hexanoic acid, 2-ethyl-, cobalt (2+) salt	136-52-7	205-250-6	0.1 – 1.0	Serious Eye Damage/Irritation - Category 2 – H319 Sensitisation - Skin - Category 1A – H317 Reproductive toxicity – Category 1B – H360 Acute hazard to the aquatic environment – Category 1 – H400 Chronic hazard to the aquatic environment – Category 3 – H412

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Hexanoic acid, 2-ethyl-, manganese salt	15956-58-8	240-085-3	0.1 – 1.0	Serious Eye Damage/Irritation - Category 2 – H319 Reproductive toxicity – Category 2 – H361 Specific target organ toxicity, repeat exposure – Category 2 Chronic hazard to the aquatic environment – Category 2 – H411
Hexanoic acid, 2-ethyl-, strontium salt	2457-02-5	219-536-3	0.1 – 1.0	Acute toxicity – Category 4 (oral) Skin Corrosion/Irritation - Category 2– H315 Serious Eye Damage/Irritation - Category 1 – H318 Reproductive toxicity – Category 2 – H361

Classification in accordance to Regulation (EC) No. 1272/2008 (CLP).

4. FIRST AID MEASURES

Description of first aid measures: If poisoning occurs, contact a doctor or the National Poisons Information Service (Phone 111) or Ambulance (Phone 999).

Inhalation: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Skin Contact: Effects may be delayed. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For gross contamination, immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water (and soap if material is insoluble). For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

Eye contact: If in eyes wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Ingestion: Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water to drink. Never give anything by the mouth to an unconscious patient. If vomiting occurs give further water. Seek medical advice.

Self-protection for the first aider: Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Most important symptoms and effects, both acute and delayed: Refer to Section 11 for Toxicological Information.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically. Effects may be delayed.

5. FIRE FIGHTING MEASURES

Hazchem Code: •3Y

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Extinguishing media: If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

Specific hazards arising from the substance or mixture: Flammable liquid and vapour. May form flammable vapour mixtures with air. Flameproof equipment necessary in area where this chemical is being used. Nearby equipment must be earthed. Electrical requirements for work area should be assessed according to AS3000. Vapour may travel a considerable distance to source of ignition and flash back. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke.

Advice for firefighters: Heating can cause expansion or decomposition leading to violent rupture of containers. If safe to do so, remove containers from path of fire. Keep containers cool with water spray. On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: If safe to do so, shut off all possible sources of ignition. Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Work up wind or increase ventilation.

Environmental precautions: Contain - prevent run off into drains and waterways. If contamination of sewers or waterways has occurred advise local emergency services.

Methods and material for containment and cleaning up

Small spills: Wipe up with absorbent (clean rag or paper towels). Allow absorbent to dry before disposing with normal household garbage.

Large spills: Use absorbent (soil, sand or other inert material). Use a spark-free shovel. Collect and seal in properly labelled containers or drums for disposal.

Reference to other sections: Refer to Section 13 for Disposal Considerations

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols.

Conditions for safety storage, including any incompatibilities: Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Store away from sources of heat and/or ignition. Store locked up. Keep container standing upright. Keep containers closed when not in use - check regularly for leaks.

Specific end use: Observe instructions of use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

	TWA		STEL		NOTICES
	ppm	mg/m3	ppm	mg/m3	
Xylene	50	220	100	441	-

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As published by the Health and Safety Executive (HSE).

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard. The standard was created for workers who are routinely, potentially exposed during product manufacture.

Biological Limit Values: No biological monitoring required.

Exposure Controls

Engineering Measures: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use only in well ventilated areas. Use with local exhaust ventilation or while wearing appropriate respirator. Vapour heavier than air - prevent concentration in hollows or sumps. Do NOT enter confined spaces where vapour may have collected.

Personal Protection Equipment: SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.

Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Environmental Exposure Controls: Keep containers closed when not in use. Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Viscous Liquid
Colour:	Grey and pink
Odour:	Solvent-like
Solubility:	Immiscible in water
Specific Gravity:	1.17 - 1.27
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	<0.001 kPa
Flash Point (°C):	>23
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
Melting Point/Range (°C):	N Av
Boiling Point/Range (°C):	N Av
pH:	N App
Viscosity:	>21 mm ² /s @ 40°C
Evaporation Rate (n-Butyl acetate=1):	N Av

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Partition Coefficient:	N Av
Total VOC (g/Litre):	N Av
Odour Threshold:	N Av
Explosive properties:	N App
Oxidising properties:	N App

(Typical values only - consult specification sheet)
N Av = Not available, N App = Not applicable

10. STABILITY AND REACTIVITY

Chemical stability: This material is thermally stable when stored and used as directed.

Conditions to avoid: Elevated temperatures and sources of ignition.

Incompatible materials: Oxidising agents.

Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

Hazardous reactions: No known hazardous reactions.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Information on Toxicological Effects

Inhalation: Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Skin contact: Contact with skin may result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye contact: May be an eye irritant.

Acute toxicity

Inhalation: This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients): LC₅₀ > 20.0 mg/L for vapours or LC₅₀ > 5.0 mg/L for dust and mist.

Skin contact: This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients): LD₅₀ > 2,000 mg/Kg bw

Ingestion: This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients): LD₅₀ > 2,000 mg/Kg bw

Corrosion/Irritancy: Eye: this material has been classified as not corrosive or irritating to eyes. Skin: this material has been classified as not corrosive or irritating to skin.

Sensitisation: Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as a Category 1A Hazard (skin sensitiser).

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Aspiration hazard: This material has been classified as not an aspiration hazard.

Specific target organ toxicity (single exposure): This material has been classified as a Category 3 Hazard. Exposure via inhalation may result in depression of the central nervous system.

Chronic Toxicity

Mutagenicity: This material has been classified as not a mutagen.

Carcinogenicity: This material has been classified as not a carcinogen.

Reproductive toxicity (including via lactation): This material has been classified as not a reproductive toxicant.

Specific target organ toxicity (repeat exposure): This material has been classified as a Category 2 Hazard. Inhalation exposure may result in damage to the central nervous system.

12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

Acute aquatic hazard: This material has been classified as not hazardous for acute aquatic exposure. Acute toxicity estimate (based on ingredients): > 100 mg/L

Long-term aquatic hazard: This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or BCF \geq 500 and/or log K_{ow} \geq 4.

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulative potential: No information available.

Mobility: No information available.

Results of PBT and vPvB assessment: A PBT/vPvB assessment is not required for this material.

Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS.

If possible material and its container should be recycled. If material or container cannot be recycled, dispose of in accordance with the countries' Environmental Protection Authority.

14. TRANSPORT INFORMATION

ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of "The European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR)" and "The Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID)".

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UN No: 1263
Dangerous Goods Class: 3
Packing Group: III

Hazchem EAC: •3Y
Hazard Identification Number: 30
Tunnel Restriction Code: 3 (D/E)
Emergency Response Guide No: 14
Environmental Hazards: Environmentally hazardous substance according to ADR /RID criteria

Classification Code: F1
Label(s) / Mark(s): 3, Marine Pollutant Mark
Limited Quantities: 5 L

Proper Shipping Name: PAINT

Segregation Dangerous Goods: Not to be loaded with explosives (Class 1), flammable gases (Class 2.1), if both are in bulk, toxic gases (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2), toxic substances (Class 6.1), infectious substances (Class 6.2) or radioactive substances (Class 7). Exemptions may apply.

INLAND WATERWAYS TRANSPORT

Classified as Dangerous Goods by the criteria of the “European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways,” (ADN)



UN No: 1263
Dangerous Goods Class: 3
Packing Group: III

Hazchem EAC: •3Y
Hazard Identification Number: 30
Emergency Response Guide No: 14
Environmental Hazards: Environmentally hazardous substance according to ADN criteria

Classification Code: F1
Label(s) / Mark(s): 3, Marine Pollutant Mark
Limited Quantities: 5 L

Proper Shipping Name: PAINT

MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.

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UN No: 1263
Dangerous Goods Class: 3
Packing Group: III
Proper Shipping Name: PAINT

AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



UN No: 1263
Dangerous Goods Class: 3
Packing Group: III
Proper Shipping Name: PAINT

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: This Safety Data Sheet has been written in accordance with Regulation (EC) No. 1272/2008 (CLP) and ECHA corresponding Guidance on the Classification, Labelling and Packaging of Substances and Mixtures (2015, Version 4.1)

This material is not subject to the following international agreements:

Montreal Protocol (Ozone depleting substances)
The Stockholm Convention (Persistent Organic Pollutants)
The Rotterdam Convention (Prior Informed Consent)

This material is subject to the following international agreements:

Basel Convention (Hazardous Waste)
• Wastes from production, formulation and use of inks, dyes, pigments, paints, lacquers, varnish

International Convention for the Prevention of Pollution from Ships (MARPOL)

- Annex III - Harmful Substances carried in Packaged Form

Chemical safety assessment: No Chemical Safety Assessment has been carried out for this mixture by the supplier.

16. OTHER INFORMATION

Reason for issue: First Issue

Literatures sources and abbreviations

CLP Classification, Labelling and Packaging
EC European Commission

Safety Data Sheet



EC No. EINECS Number
ECHA European Chemicals Agency
HSE Health and Safety Executive
PVT Persistent, Bioaccumulative and Toxic
vPVB Very Persistent and very Bioaccumulative

This Safety Data Sheet has been prepared by Chemical Data Services Pty Ltd (chemdata.com.au) on behalf of its client.

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since the company cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.