



HQC ROOF CLEANER (MOSS & MOULD KILLER)

1. PRODUCT AND COMPANY IDENTIFICATION

1.01 Product Code:	HQRC
1.02 Product Name:	HQC Roof Cleaner (Moss & Mould Killer)
1.03 Synonyms:	High Quality Coatings Professional Fungicidal Roof Wash
1.04 Manufacturer/Supplier:	HQC Ltd.
1.06 Address:	Unit 48 Birds Royd Lane BRIGHOUSE West Yorkshire HD6 1NG
1.07 Contact:	Operations Director
1.08 Phone Number:	0845 680 6124

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substances presenting a physico-chemical, health or environmental hazard within the meaning of the CHIP Regulations or which are assigned occupational exposure limits.

EC No.	SYMBOLS	HAZARDOUS INGREDIENTS	%	HEALTH R PHRASES
273-257-1		DISODIUM OCTABORATE	<2.5	Xi, R36/38
264-151-6		BENZALKONIUM CHLORIDE	2.5-10	R34, 36, 38, 41, 22, 50

Note: The text for R phrase codes shown above (if any) is given in section 16.
Note: 'EC Number' if quoted is the EINECS or ELINCS number.

3. HAZARD INFORMATION

This product has been assessed under the Control of Pesticides Regulations and is classified as follows:
: Xi IRRITANT
R36/38 Irritating to eyes and skin.
Information on Occupational Exposure Limits is given in Section 8.

4. FIRST AID MEASURES

4.01 Eye Contact:	Flush out with clean water for 10 minutes. Get medical help, if necessary.
4.02 Skin Contact:	Wash area of contact with soap and water.
4.03 Ingestion:	Seek urgent medical attention. DO NOT INDUCE VOMITING.
4.04 Inhalation:	Move to fresh air if unconscious turn into recovery position. Get medical help.

5. FIRE PREVENTION MEASURES

Extinguishing media:
Recommended - alcohol resistant foam, CO2, powders.
Not to be used - waterjet.

Recommendations: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Fire-fighters should wear self-contained breathing apparatus. Closed containers exposed to fire should be cooled with water. Do not allow run-off from fire-fighting to enter drains or water-courses.



HQC ROOF CLEANER (MOSS & MOULD KILLER)

6. ACCIDENTAL RELEASE MEASURES

Exclude non-essential personnel. Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in section 8. Contain and collect spillage with non-combustible absorbent materials, eg sand, earth, vermiculite or diatomaceous earth, and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product enters drains or sewers, immediately contact the local water company; in the case of contamination of streams, rivers or lakes, the relevant environment agency.

7. HANDLING & STORAGE

7.01 HANDLING CONDITIONS:

Prevent air-borne concentrations higher than the occupational exposure limits. Keep the container tightly closed. Exclude sources of heat, sparks and open flame. Avoid skin and eye contact. Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in storage and use areas. For personal protection, see Section 8. Always keep in containers made of the same material as the supply container, or in containers that are compatible with the product.

7.02 STORAGE CONDITIONS:

Observe the label precautions. Store in a cool, dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. Do not use or store any paint container by hanging on a hook.

The Manual Handling Operations Regulations 1993 may apply to the handling of certain Paint Products. Products packed in containers of 5 litres and above will be marked with a guide weight; refer to these weights when carrying out an assessment.

The principles contained in the HSE guidance note Storage of Packaged Dangerous Substances, should be observed when storing this product. Store separately from oxidising agents, strongly alkaline and strongly acidic materials, amines, alcohols and water.

7.03 SPECIFIC USE(s):

Where applicable refer to the product label and literature for the application and use instructions.

8. PERSONAL PROTECTION MEASURES

EXPOSURE LIMIT VALUES

*** NO SUBSTANCE OEL DATA ***

OEL - Occupational Exposure Limits
WEL -Workplace Exposure Limit
SUP -Manufacturer's recommended Limit
LTEL - Long-term Exposure Limit.
TWA - Time weighted Average
STEL - Short term Exposure Limit (15mins)
SK - Risk of absorption through unbroken skin
PB - Figure quoted as Lead
CR - Figure quoted as Cr VI
RD - Figure quoted is for Respirable dust

Further guidance on WELs and OELs, and on occupational exposure to harmful materials (including mixed exposures) is given in HSE Guidance Note EH40.



HQC ROOF CLEANER (MOSS & MOULD KILLER)

8. PERSONAL PROTECTION MEASURES (CONTINUED)

8.01 EXPOSURE CONTROLS:

Before commencing work, ensure that a COSHH Assessment has been carried out. All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of local regulations.

8.02 RESPIRATORY PROTECTION:

Avoid the inhalation of vapour, particulates and spray mist. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general ventilation. If this is not sufficient to maintain concentrations of particulates and solvent vapour below the occupational exposure limit, respiratory protection must be worn.

The selection of respiratory equipment should be in accordance with BS 4275. Recommendations for the selection, use and maintenance of Respiratory Equipment, and the current certificates of approval are issued annually by the Health and Safety Executive.

8.03 HAND PROTECTION:

Wear suitable gloves for protection against materials in section 2.

When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed.

8.04 EYE PROTECTION:

Eye protection designed to protect against liquid splashes should be worn.

8.05 SKIN PROTECTION:

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

8.06 FLATTING:

Protective gloves should be worn to avoid the risk of skin irritation. When surfaces are to be prepared for painting, account should be taken of the age of the property and the possibility that lead pigmented paint might be present. There is a possibility that ingestion or inhalation of scrapings or dust arising from the preparation work could cause health effects. As a working rule you should assume that this will be the case if the age of the property is pre 1960.

Where possible wet flattening or chemical stripping methods should be used with surfaces of this type to avoid the creation of dust. When dry flattening cannot be avoided, and effective local exhaust ventilation is not available, it is recommended that a dust respirator is worn, that is approved for use with lead dusts, and its type selected on the basis of the occupational hygiene (COSHH) assessment, taking into account the occupational hygiene exposure standard for lead in air. Furthermore, steps should be taken to ensure containment of the dusts created, and that all practicable measures are taken to clean up thoroughly all deposits of dusts in and around the affected area.

The Control of Lead at Work approved code of practice 1998 (ISBN 0 71 7615065) should be consulted for advice on protective clothing and personal hygiene precautions. Care should also be taken to exclude visitors, members of the household and especially children from the affected area, during the actual work and the subsequent clean up operations. All scrapings, dust, etc. should be disposed of by the professional painting contractor as Special (Hazardous) Waste, with the relevant documentation under The Special Waste Regulations 1996 plus amendment 2001, The Environmental Protection (Duty of Care) Regulations 1991, The Controlled Waste Registration of Carriers and Seizure of Vehicles Regulations 1991 plus amendment 1998 and the Controlled Waste Regulations 1992 plus amendment 1993.

HQC ROOF CLEANER (MOSS & MOULD KILLER)

8. PERSONAL PROTECTION MEASURES (CONTINUED)

Dry sanding, flame cutting and/or welding of the dry paint film may give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

Extra precautions will need to be taken when burning off old lead based paints (See above - "Flatting" for relevance to work on older property, ie pre 1960) as fumes containing lead will be produced. It is recommended that a respirator, approved for use with particulate fumes of lead is selected on the basis of the occupational hygiene (COSHH) assessment, taking into account the occupational hygiene exposure standard for lead in air. Similar precautions to those given above under the Flatting section should be taken with reference to protective clothing, disposal of scrapings and dusts, and exclusion of other personnel and especially children from the building during actual work and the subsequent clean up operations.

9. PHYSICAL DATA

9.01 Physical State:	Liquid
9.02 Flash Point:	>= 100 C
9.03 Specific Gravity:	0.997
9.04 Water Miscibility:	Yes
9.05 pH:	No Information
9.06 Viscosity:	N/A

10. STABILITY AND REACTIVITY

10.01 Conditions to avoid:	Extremes of temperature.
10.02 Materials to avoid:	Keep away from oxidising agents, strongly alkaline and strongly acidic materials in order to avoid exothermic reactions.
10.03 Hazardous decomposition products:	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke and oxides of nitrogen.

11. TOXICOLOGICAL DATA

There is no data available on the product itself. The product has been assessed following the conventional method in the CHIP Regulations and is classified for toxicological hazards accordingly. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. See Sections 2 and 15 for details of the resulting hazard classification.

Over-exposures of vapour are irritating to eyes and respiratory system. Excessive concentrations may produce effects on the central nervous system including drowsiness. In extreme cases loss of consciousness may result. Long term exposure to vapour concentrations in excess of quoted OELs may result in adverse health effects. Splashes entering the eye will cause discomfort and possible damage. Prolonged contact with the skin may have a defatting effect which may lead to skin irritation and in some cases dermatitis.

Propylene glycol ethers and their acetates are known not to exhibit the reprotoxic effects that are associated with some ethylene glycol ethers and their acetates.



HQC FUNGICIDAL WASH

12. ECOLOGICAL DATA

There is no specific data available on the product itself.

The product should not be allowed to enter drains or watercourses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

Products classified as Marine Pollutants are indicated as such under Transport (section 14).

Products classified as Dangerous For the Environment are indicated as such in sections 2 and 15.

Any substances in the product that are classified as Dangerous for the Environment, present at concentrations above those requiring listing are given in section 2.

13. DISPOSAL

Wastes, including emptied containers, should be disposed of in accordance with national regulations.

CODES ACCORDING TO THE LIST OF WASTES REGULATIONS:

Product as supplied: Assigned as non-hazardous waste code 08 01 12 waste paint and varnish other than those mentioned in 08 01 11.

Part-used containers, containing dried residues of the supplied product: Assigned as non-hazardous waste code 08 01 12 waste paint and varnish other than those mentioned in 08 01 11

Used containers, rigorously scraped out and containing dried residues of the supplied product: Assigned as non-hazardous waste code 15 01 02 plastic packaging OR non-hazardous waste code 15 01 04 metal packaging.

“Rigorously scraped out” means removing the maximum amount of product from the container by physical or mechanical means (draining or scraping) to leave a residue or contamination that cannot be removed by such means.

These codes have been assigned based on the actual composition of the product both as supplied and as dried residues. If mixed with other wastes, the waste codes quoted may not be applicable.

14. TRANSPORT INFORMATION

14.01 UN number:	0000
14.02 Proper Shipping Name:	NOT APPLICABLE
14.03 Hazard Class:	EX
14.04 Sub-Hazard Class:	EX
14.05 Packing Group:	EX
14.06 Technical Name (NOS only):	Marine Pollutant if indicated here
14.07 Limited Qty Maximum:	N/A
14.08 Packing Instructions:	N/A
14.09 Emergency Schedule No:	N/A
14.10 Flashpoint:	>= 100



HQC FUNGICIDAL WASH

15. REGULATORY INFORMATION

15.01 NAMED SUBSTANCES:

DISODIUM OCTABORATE 3.0% w/w (29.7 g/l)
BENZALKONIUM CHLORIDE 1.5% w/w (14.8 g/l)

15.02 INDICATION(S) OF DANGER:

: Xi IRRITANT

15.03 SYMBOLS LETTER(S):

None

15.04 WARNING LABEL PHRASES:

ADDITIONAL PRECAUTIONS FOR PROFESSIONAL OPERATORS.

The (COSHH) Control of Substances Hazardous to Health Regulations 1994 may apply to the use of this product at work. Engineering control of operator exposure must be used where reasonably practicable in addition to the items of personal protective equipment. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard or protection.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRY REGULARLY.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SYNTHETIC RUBBER/PVC GLOVES AND EYE PROTECTION when using. DO NOT BREATHE SPRAY MIST. Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS (G) 53: "Respiratory Protective Equipment – a practical guide for users"). WHEN USING DO NOT EAT, DRINK OR SMOKE. UNPROTECTED PERSONS OR ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS FOR 48 HOURS OR UNTIL SURFACES ARE DRY. DO NOT CONTAMINATE FOODSTUFFS, EATING UTENSILS OR FOOD CONTACT SURFACES. COVER WATER STORAGE TANKS before application. THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way. PREVENT ANY SURFACE RUN-OFF FROM ENTERING DRAINS. DANGEROUS TO FISH AND OTHER AQUATIC LIFE. REMOVE OR COVER FISH TANKS OR BOWLS before application. DO NOT CONTAMINATE watercourses or ground. ALL BATS ARE PROTECTED UNDER THE WILDLIFE AND COUNTRYSIDE ACT 1981. BEFORE TREATING ANY STRUCTURE USED BY BATS, CONSULT ENGLISH NATURE, SCOTTISH NATURAL HERITAGE OR THE COUNTRYSIDE COUNCIL FOR WALES.

R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50	Toxic to aquatic organisms.

WASH SPLASHES from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after use.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

IF SWALLOWED, seek medical advice immediately and show this container or label. R36/38 Irritating to eyes and skin.

Label phrase according to the Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations:

EU limit value for this product (cat A/i) : 140g/l (2007) / 140g/l (2010)

This product contains max. 70g/l VOC

Where 'J' and/or 'P' phrases are denoted, these are ICI Paints AkzoNobel or paint industry reference codes to additional phrases.

HQC ROOF CLEANER (MOSS & MOULD KILLER)

16. OTHER INFORMATION

This information should be used as a supplement to other information obtained to make independent judgement of suitability and to ensure proper use and protect the health and safety of employees.

Judgement as to the suitability of the information herein for the purchaser's purposes are the purchaser's responsibility. Therefore although reasonable care has been taken in the preparation of such information, Thermilate Technologies Ltd extends no warranties, makes no representations and assumes no responsibility as to the accuracy of suitability of such information for application to purchasers intended purpose or for consequences of its use.



Prepared by HQC Ltd

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This Product Data Sheet supersedes all other previously dated sheets for this product.