

SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY

PRODUCT NAME	CLEANER R
CHEMICAL FAMILY	Laundry spotting agent for the removal of rust.
COMPANY NAME	COLE & WILSON LTD, NABBS LANE, SLAITHWAITE, HUDDERSFIELD, W. YORKSHIRE, HD7 5AT
EMERGENCY TELEPHONE	01484 842353
EMAIL	info@colewilson.co.uk

2. HAZARD IDENTIFICATION

Toxic and corrosive.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISATION	An aqueous solution of ammonium hydrogen fluoride containing the equivalent to 5 % hydrogen fluoride.
CAS NUMBER	7664-39-3 hydrofluoric acid.
FURTHER INFORMATION	EEC No 231-634-86.

4. FIRST AID MEASURES

INHALATION	Remove from exposure and seek medical attention.
SKIN CONTACT	Wash off immediately with plenty of water. If spillage occurs on an appreciable area or if irritation develops, seek medical attention. Massage calcium gluconate gel into the burnt area.
EYE CONTACT	Immediately wash out with water or isotonic saline solution for at least 10 minutes Seek medical advice.
INGESTION	Wash out mouth thoroughly with water. Give water to drink followed by milk of magnesia. Obtain medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	Substance is not flammable, use extinguishing media to suit cause of fire.
SPECIAL PRECAUTIONS	Keep containers cool by external water spray. Substance will react with steel and many metals producing flammable hydrogen gas.

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CLEANER R

6. ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEANING UP Neutralise with an excess of slaked lime to form a slurry which can be then washed to drain.

Environmental precautions Do not allow to get into waste water or waterways.

7. HANDLING AND STORAGE

Store should be cool, shaded, away from sources of heat and incompatibles. Good ventilation is essential. Containers must be upright and tightly closed. Water must be available to drench the area in case of spills. Never transfer the product into anything but plastic containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION. Clothing and equipment giving body, eye, foot and hand protection should always be worn, e.g. overalls (not of nylon material) goggles, safety shoes and PVC gloves. Also calcium gluconate gel, see section 16.

Occupational Exposure
LIMITS For hydrogen fluoride UK limit 2.5mg (F)/m³. 3ppm 8hr TWA.

9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE Clear liquid.

COLOUR Near water white.

ODOUR Odourless at room temperature.

CHANGES IN PHYSICAL STATE Boiling point approximately 90°C.

FLASH POINT None.

DENSITY Not determined.

SOLUBILITY Soluble in water.

pH VALUE 1

VISCOSITY Not determined.

IGNITION TEMPERATURE Not determined.

EXPLOSION LIMITS Not determined.

VAPOUR PRESSURE Not determined.

HYDROFLUORIC ACID 5.5% - 6.5%

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10. STABILITY & REACTIVITY

THERMAL DECOMPOSITION

Not determined.

HAZARDOUS REACTIONS

Contact with chemicals such as sulphides, carbonate, cyanides and many metals can evolve toxic and flammable gases.

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen fluoride and ammonia gases.

11. TOXICOLOGICAL INFORMATION

HYDROFLUORIC ACID

Inhalation -Rat LC50: 1276ppm/Hour.
Inhalation - Human LCLO: 50ppm/30 Minutes.
Inhalation - Man TCLO: 100mg/m³/Minute nose, eye, pulmonary.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

No information available at present.

13. DISPOSAL CONSIDERATIONS

ADVICE ON DISPOSAL

Hydrofluoric acid waste liquors should either be suitably treated before discharge in accordance with local and national regulations, or via approved toxic waste disposal contractor.

14. TRANSPORT INFORMATION

PROPER SHIPPING NAME

5% Hydrofluoric Acid.

UN NO.

1790

PACKING GROUP

11

CLASS NO.

8

SUBSIDIARY HAZARD NO.

6.1

IMDG/ICAO

81814

MFAG NO.

750

PRODUCT NAME

CLEANER R

15. REGULATORY INFORMATION

Toxic/Corrosive.

RISK PHRASES R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34: Causes burns.

SAFETY PHRASES S7/9: Keep container tightly closed and in a well ventilated space.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37: Wear suitable protective clothing and gloves.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WATER HAZARD CLASS (WGK) WGK Class 2/3 self classification.

16. OTHER INFORMATION.

It is recommended that each operator and handler of Cleaner R should be provided with a tube of calcium gluconate gel. If a spillage on the skin occurs, first aid treatment as directed on the tube should commence immediately. The gel can be supplied with Cleaner R on request or obtained from Industrial Pharmaceutical Services, Manchester WA14 1NA. Telephone: 0161 928 3672.

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M.P.SULLIVAN (CHEMIST)
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This information is based on our present state of knowledge and is intended to describe our products from the point of view of the safety requirements. It should not be construed as guaranteeing specific properties.

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