



Heavy Duty Restoration Cleaner

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

REVISION 5	APRIL 2021
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier : HDRC25 Heavy Duty Restoration Cleaner

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

Product Use [SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [SU19] Building and construction work; [PC0] Other; [PROC11] Non industrial spraying; [ERC8b] Wide dispersive indoor use of reactive substances in open systems [ERC8e] Wide dispersive outdoor use of reactive substances in open systems;

Description : Acidic Cleaning Solution.

1.3. Details of the supplier of the safety data sheet :

Company and Address -

Away Services Group
Unit D
Sunset Business Park
Manchester
Kearsley
Bolton
BL4 8RH

Website :

Telephone : 0800 0588859

Fax : 0800 0588859

Email :

Email address of the competent person :

1.4. Emergency telephone number

0800 0588859 9.00am - 5.00pm Mon – Fri

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CHIP).

T+: R26/27/28; C: R35

Classification (CLP) :

Acute Tox. 2: H300;

Acute Tox. 1: H310;

Skin Corr. 1A: H314;

Acute Tox. 2: H330;

Most important adverse effects: Toxic / Corrosive

2.2. Label elements

Label elements under CLP (1272/2008):

Hazard statements:

H310: Fatal in contact with skin

H301: Toxic if swallowed

H331: Toxic if inhaled

H314: Causes severe skin burns and eye damage

Signal words: Danger

Hazard pictograms:

GHS06: Toxic



GHS05: Corrosion



Precautionary statements:

P201: Obtain special instructions before use

P202: Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection.

P301 + P303 + P305 + P310 IF SWALLOWED, IF ON SKIN (or hair), IF IN EYES: Immediately call a POISON CENTRE or doctor/physician.

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P302 + P350 IF ON SKIN: Gently wash with plenty of soap and water.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P403+233: Store in a well-ventilated place. Keep container tightly closed

P234: Keep only in original container.

P390: Absorb spillage to prevent material damage

P501: Dispose of contents/container to hazardous waste

Label elements under CHIP (1999/45/EC):

Hazard symbols:

T+: Very Toxic / C: Corrosive.



Risk phrases:

R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed

R35: Causes severe burns

Safety Phrases:

S53: Avoid exposure - obtain special instructions before use

S36: Wear suitable protective clothing

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label

S28: After contact with skin, wash immediately with plenty of water

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S23: Do not breathe gas/fumes/vapour/spray

S63: In case of accident by inhalation: remove casualty to fresh air and keep at rest

S3/9/49: Keep only in the original container in a cool, well-ventilated place

S60: This material and its container must be disposed of as hazardous waste

2.3. Other hazards

PBT: This product is not identified as a PBT substance.

SECTION 3: Composition / information on ingredients

3.2. Mixtures 67/548/EEC / 1999/45/EC

Chemical Name	CAS No.	Conc. (%w/w)	Classification
Hydrofluoric Acid	7664-39-3	5 – 20 %	T+: R26/27/28; C: R35 Acute. Tox, 1: H310 Acute. Tox, 2: H300 Acute. Tox, 2: H330 Skin Corr. 1A: H314
Phosphoric Acid	7664-38-2	15 – 30 %	C: R34 Skin Corr. 1B: H314
Nonionic Surfactant	68439-46-3	1 – 5 %	Xn: R22; Xi: R41 Eye Dam. 1, H318 Acute Tox. 4, H302

SECTION 4: First aid measures

4.1. Description of first aid measures :

General advice -

Consult a physician. Show this safety data sheet to the doctor in attendance.
 Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF.
 After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion as well as the effects of exposure.
 Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure.
 Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tablets or Milk of Magnesia to conscious victims.
 Conditions such as hypocalcemia, hypomagnesemia, and cardiac arrhythmias should be monitored for, since they can occur after exposure.

- Inhalation : Move the exposed person to fresh air. If not breathing, give artificial respiration.
- Eye contact : Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
- Skin contact : Wash off immediately with plenty of soap and water. Remove contaminated clothing.
- Ingestion : DO NOT INDUCE VOMITING. Rinse mouth with water.

b) BEST METHOD - USING HEXAFLUORINE

HEXAFLUORINE IS A IS AN EYE/ SKIN FIRST-AID DECONTAMINATION SOLUTION, DEVELOPED FOR THE TREATMENT OF SMALL HYDROFLUORIC ACID SPLASHES. HEXAFLUORINE RINSES AND ABSORBS HF ACID SIMULTANEOUSLY. THE PRODUCT HAS THE ABILITY (100 TIMES GREATER THAN CALCIUM GLUCONATE) TO BIND BOTH HYDROGEN AND FLUORIDE IONS; PREVENTING CAUSTIC BURNS, AND SYSTEMIC FLUORIDE POISONING.

SKIN	Do not wash affected area with water. Apply Hexafluorine directly onto the area. Product works best if applied within sixty seconds of occurrence – Hence a sachet needs to be carried by the operator. Hexafluorine will purge the acid content from the affected area, and leave neutralized. Wash away residues. If irritation should persist, seek medical attention.
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EYES	Do not wash eye with water. Irrigate immediately (within 60 seconds of occurrence) with Hexafluorine . The natural secretions of the eye will clear away the neutralized excess liquid. Wash away residues. If irritation persists, seek medical attention.
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USE OF THIS PRODUCT REQUIRES TRAINING.
TO PURCHASE PRODUCT & TO ENQUIRE ABOUT TRAINING COURSES CONTACT....
KAYS MEDICAL (LIVERPOOL) – TEL : 0151 482 2830 , FAX : 0151 207 3384

For further information regarding H.F. injuries contact Guys Hospital Medical Toxicology Unit , telephone no. 0207 777 5370.

4.2. Most important symptoms and effects, both acute and delayed :

Inhalation : Risk of producing lung oedema.

Eye contact: Causes severe burns to eyes. The eyes may water profusely. There may be severe pain. The vision may become blurred. There may be permanent damage.

Skin contact : Painful burns (effects may not be immediate).

Ingestion: Corrosive to mucous membranes.

4.3. Indication of any immediate medical attention and special treatment needed :

Inhalation : Seek immediate medical attention. (show the label where possible).

Eye contact : Seek immediate medical attention. (show the label where possible).

Skin contact : Seek immediate medical attention. (show the label where possible).

Ingestion : Seek immediate medical attention. (show the label where possible)..

SECTION 5: Firefighting measures

5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from the substance or mixture

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing.

5.4 Further information

Avoid using strong water jets.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes and skin.

Wear suitable protective equipment.

Wear respiratory protection.

Avoid breathing vapours, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

6.2. Environmental precautions

Prevent further spillage if safe.

Do not allow product to enter drains or any water course.

Advise local authorities if large spills cannot be contained.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material and dispose of as hazardous waste.

Transfer to suitable, labelled containers for disposal.

6.4. Reference to other sections

See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION for further information.

See section 13. DISPOSAL CONSIDERATIONS for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ensure adequate ventilation of the working area. Avoid contact with eyes and skin.

Adopt best Manual Handling considerations when handling, carrying and dispensing.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep in a cool, dry, well-ventilated area.

Store in correctly labelled containers.

7.3. Specific end use(s)

See section 1.2. Relevant identified uses of the substance or mixture and uses advised against for further information.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Components	CAS-No.	8 hour TWA	15 min. STEL Basis
Hydrofluoric Acid	7664-39-3	1.5 mg/m ³ 2.5 mg/m ³	UK EH40 WEL
Phosphoric Acid	7664-38-2	1 mg/m ³ 2 mg/m ³	UK EH40 WEL

8.2. Exposure controls**Appropriate engineering controls**

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and immediately after handling the product

Respiratory protection

Do not breathe dust/fume/gas/mist/vapour/spray.
Wear suitable respiratory equipment when necessary.

Hand protection

Chemical resistant gloves.
Material: Chloroprene.
Minimum layer thickness: 0.6 mm
Break through time: > 480 min

Eye protection

Tightly fitting safety goggles. Avoid contact with eyes.

Protective equipment

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Avoid contact with eyes and skin.
Immediately remove all soiled and contaminated clothing.
Wash all contaminated clothing before reuse.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance: Liquid
Colour: Green
Odour: Acidic
Odour threshold: Not determined.
pH-value at 20 °C: < 1.0
Melting point: Not determined.
Boiling point: Not determined.
Flash point: Not determined.
Flammability (solid, gaseous): Not applicable.
Auto-ignition temperature: Not determined.
Decomposition temperature: Not determined.
Self-igniting: Not determined.
Danger of explosion: Product does not present an explosion hazard.
Explosion limits: Not determined.
Vapour pressure: Not determined.
Density at 20 °C: 1.030 g/cm³
Relative density Not determined.
Vapour density Not determined.
Evaporation rate Not determined.
Solubility in / Miscibility with water: Soluble.
Oxidizing properties Not determined.
Partition coefficient (n-octanol/water): Not determined.
Viscosity:
Dynamic at 20 °C: Not determined.
Kinematic: Not determined.

9.2. Other information :

Conductivity : No data available
Surface tension : No data available
Gas group : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity: Not determined.

10.2. Chemical stability Stable under normal conditions.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

Reacts with metal to form Hydrogen.

10.4 Conditions to avoid:

Heat. Flames. Sources of ignition. Direct sunlight.

10.5 Incompatible materials:

Strong bases. Strong oxidizing agents.

10.6 Hazardous decomposition products:

In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Toxic if swallowed

Fatal in contact with skin

Toxic if inhaled

Causes severe skin burns and eye damage

Symptoms / Routes of exposure:

Skin contact: Painful burns (effects may not be immediate).

Eye contact:

Causes severe burns to eyes. The eyes may water profusely. There may be severe pain.

The vision may become blurred. There may be permanent damage.

Ingestion:

Corrosive to mucous membranes.

Inhalation:

Risk of producing lung oedema.

Delayed / immediate effects:

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia, Material can cause severe burns and blistering which may not be immediately painful or visible. The full extent of tissue damage may not exhibit itself for 12-24 hours after exposure., Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., necrosis of the skin

SECTION 12: Ecological information

12.1 Toxicity

Not determined.

12.2 Persistence and degradability

Biodegradable

12.3 Bioaccumulative potential

Degraded. Will disperse as ions.

12.4 Mobility in soil

Soluble, will disperse and degrade.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects:

Not expected to be persistent in the environment

SECTION 13: Disposal considerations

General information

Do not allow product to enter drains.
Transfer to a suitable container and arrange for collection by specialised disposal company.

Uncleaned packaging:

Recommendation: Arrange for collection by specialised disposal company.
Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1. UN number:

UN number: UN 2922

14.2. UN proper shipping name :

Shipping name: CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric Acid, Phosphoric acid)

14.3. Transport hazard class(es) :



Transport class: 8 (6.1)

14.4. Packing group :

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

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

Regulations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

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

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment :

No data is available on this product.

SECTION 16: Other information**Revision :**

This document differs from the previous version in the following areas:

- 1 - Description.
- 1 - Product Use.
- 2 - 2.1. Classification of the substance or mixture.
- 2 - 2.1.2. Classification - EC 1272/2008.
- 2 - Hazard pictograms.
- 2 - Signal Word.
- 12 - 12.1. Toxicity.
- 15 - Labelling.
- 15 - Risk phrases.
- 15 - Safety phrases.

Text of risk phrases in Section 3

R22: Harmful if swallowed
R26/27/28: Very toxic by inhalation, in contact with skin and if swallowed
R34: Causes burns.
R35: Causes severe burns
R41: Risk of serious damage to eyes

Full text of classifications [DSD/DPD]

H290: May be corrosive to metals
H300: Fatal if swallowed
H302: Harmful if swallowed
H310: Fatal in contact with skin
H314: Causes severe skin burns and eye damage
H318: Causes serious eye damage
H330: Fatal if inhaled

Further information:

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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