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Technical Data Sheet

Introduction

It is a special formulation for the breaking down and removal of black carbon dirt, oils, and greases from any masonry surface. It will also attack paint films and can be used by the quicker Degreasing preparation of masonry so that acid-based cleaners can work more efficiently and give better even cleaning results. When used as a degreaser followed by the appropriate acid agent a more rapid and economical cleaning can be achieved, or total cleaning can be achieved using along contact method of application. When used on masonry the full colour of the cleaned masonry surface is retained. The product is also a slow acting paint stripper.



Technical Data Sheet

Product description

HD-400 is a milky aqueous formulation containing sodium hydroxide. It is corrosive, nonflammable and when adequately diluted the organic materials present are biodegradable. The viscosity helps reduce absorption into the pre-wetted masonry.



Technical Data Sheet

How to use the product

Any large organic deposits should be removed either by scraper or by use of power jet spray before the chemical is applied. Establish by a test patch trial, the full method and contact times necessary to achieve a satisfactory result. The surface should be pre-wetted and left to drain down. Using a nylon brush, work the product over the pre-wetted surface and leave a visible coating covering the masonry or with due care use an applicator spray (operative must be informed that the product is corrosive!). Normal contact time is 1 hour, up to a maximum of 3 hours, during any single application. Application may be repeated after jetting off if it is considered necessary. Jetting off is preferable with hot water, but cold water may suffice, but requires 3 min/sq.m. jetting. A final treatment with an acid based cleaner if necessary, or a neutralization agent (LC500) should then follow. The surface coated with HD400 should not be left long enough to dry out. The thickened product is better where long contact times are necessary. For the removal of paint from masonry the product may be applied onto the dry paint surface. The product is slow acting on thick paint films and repeated treatments are often necessary unless more rapid agents (e.g. IntaChem's Inter-Strip) have first been applied to soften and



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remove the bulk of the paint surface.



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General safety precautions

Containers must be stored in a safe place with the caps secured. A trained responsible person(s) should be appointed to ensure security in depots, in transit and on site. Only competent persons should handle this product. Spillages should be dealt with immediately.



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Materials to be avoided

Aluminum and zinc (galvanized metals) and lead. Painted surfaces and polished wood need to be protected.



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Protection of operative

Chemical protection suits are needed along with PVC gauntlet gloves, face shield and head cover also suitable footwear. A bucket of clean water for emergency use should be at hand. Nobody must be allowed to pass or work near or underneath cleaning areas. Spillages must be washed down immediately as should all equipment, scaffolding etc. after each day's work. Good ventilation is essential. All persons must be familiar with the required safety precautions and correct method of handling the product. If using a spray applicator breathing equipment must be worn.



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First aid advice

Accidental splashes on the skin or clothing must be washed off immediately with fresh clean water. Contaminated clothing should be removed. **SPLASHES ON THE SKIN:** Wash immediately with plenty of water. Solution of 1 part vinegar to 3 parts clean water can be found beneficial to neutralize the alkalinity of the skin and after using the mixture the skin should be washed thoroughly. **SPLASHES IN THE EYES:** Must be immediately irrigated with plenty of clean water. An eyewash of dilute basic acid may be used. **IN ALL CASES OF EXTENSIVE BURNS MEDICAL HELP SHOULD BE SOUGHT IMMEDIATELY.**



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Ecology

When diluted, the organic ingredients present are all biodegradable. Wash any splashes off plants or vegetation immediately or protect them with plastic sheeting. Wash down debris as not considered harmful to fish. Water authorities should be consulted about disposal into drains or water courses.



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Operative Competency

On the general subject of competency, we further signpost enquirers to the Health & Safety Executive's website. Once on the website search on the keyword **competence**. At time of publication the HSE described *Competence* as:

"Competence can be described as **the combination of training, skills, experience and knowledge that a person has and their ability to apply them to perform a task safely**. Other factors, such as attitude and physical ability, can also affect someone's competence. As an employer, you should take account of the competence of relevant employees when you are conducting your risk assessment. This will help you decide what level of information, instruction, training, and supervision you need to provide."

Largely the UK construction industry uses a skills card scheme called Construction Skills Certification Scheme or CSCS. Those using this product would most likely show on the reverse side of their CSCS card the occupation: Façade Cleaner or if they do not hold a CSCS they are likely to hold an NVQ level 2 in Façade Preservation or a Level 3 NVQ in Heritage Façade Preservation. Supervisors may hold a Level 3 NVQ in Occupational Work Supervision Construction with an awarding body endorsement letter for Façade Preservation. Managers may hold a Level 6 NVQ in Construction Site Management Conservation.



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Safety Notes:

1. Always store containers in secure conditions.
2. Keep containers closed when not in use.
3. COSHH Data: HD400
4. Hazardous Ingredients: Contains Sodium Hydroxide (less than 25%) UN182A
5. Physical Data: A milky aqueous fluid
6. Solubility: Totally water soluble
7. SG: 1.23—1.29 circa
8. pH Value: Greater than 13
9. Hazard classification: Corrosive
10. Flammability: Non-flammable
11. Fume Hazards: None
12. Handling precautions: Only experienced trained persons should use this product. Wear full hand, face, foot and body protection. Have clean water to hand for emergencies. Store containers in a safe place and ensure caps are clothed. Dilution for spray application is not recommended.
13. First Aid—Skin Wash with plenty of water and seek medical help.
14. First Aid—Eyes Wash with plenty of water and seek medical help.
15. First Aid—Ingestion Drink plenty of water and seek medical help.
16. Spillages: Either dilute adequately or absorb into soil and dispose of the debris in the approved manner.
17. Disposal: Ensure adequate dilution before discharge into drains.
18. NEVER leave containers full or empty where the public may come into contact with them.
19. ALWAYS fill containers with water before disposing of them.

Important Notice:

The statements above are compiled from our field of production and according to the latest technological developments and application techniques received by us. Since application and working are beyond our control, no liability of the producer (or its agents) can be derived from contents of the information sheet or additional correspondence. All statements made in addition to this sheet must be confirmed in writing by the producer (or its agents). In all cases our general conditions of sale are valid. This data sheet was published 10/10/2005 and supersedes any previous edition.



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Section 1: Identification of the substance/mixture and of the company/undertaking



1.1. Product Identifier

Product name:

HD 400

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

Description:

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;

Alkaline Cleaning Solution.

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

Company:

IntaChem® Solution Technology
a trading name of
Priestman Associates LLP

Address:

1 Irwin Drive, Nottingham, UK NG6 7BJ

Website:

www.intachem-solutions.com

Telephone:

0115 975 1880

Email:

info@intachem-solutions.com

Email of a competent person:

david@priestmanweb.com

1.4. Emergency

telephone number:

07943 641586 (Mon-Fri 9am-5pm)



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Section 2: Hazard Identification

2.1. Classification of the substance or mixture

Classification under CHIP:	C: R35
Classification under CLP:	Skin Corr. 1A: H314;

2.2. Label elements

Label elements under CLP:

Hazard statements:	H314: Causes severe skin burns and eye damage.	
Signal words:	Danger	
Hazard pictogram:	GHS05: Corrosion	
Precautionary statements:	P101: If medical advice is needed, have product container or label at hand. P102: Keep out of reach of children. P260: Do not breathe dust/fume/gas/mist/vapours/spray P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P363: Wash contaminated clothing before reuse. P501: Dispose of contents to hazardous waste.	

Label elements under CHIP:

Hazard symbols:	[see end column]	<p>Corrosive.</p>
Risk phrases:	R35: Causes severe burns.	
Safety phrases:	S1/2: Keep locked up and out of the reach of children. S7: Keep container tightly closed. S24/25: Avoid contact with skin and	



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<p>eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28: After contact with skin, wash immediately with plenty of water. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</p>	
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2.3. **Other hazards:**
PBT:

This product is not identified as a PBT substance.

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Section 3: Composition information on ingredients



3.2. Mixtures EC 1272/2008

Chemical name	CAS No.	EC No.	REACH Reg. No.	Conc. (%w/w)	Classification
Sodium Hydroxide	1310-73-2			10 – 20	C: R35 Skin Corr. 1A: H314
Nonionic Surfactant	68439-46-3			1 – 5 %	Xn: R22; Xi: R41 Acute Tox. 4: H302; Eye Dam. 1: H318
Amphoteric Surfactant	61789-40-0			0.5 – 1	Xi: R41 Eye Dam. 1: H318; Aquatic Chronic 3: H412;



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Section 4: First Aid Measures



4.1. Description of first aid measures

Inhalation:	Move the exposed person to fresh air.
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.

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

Inhalation:	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Eye contact:	Irritating to eyes.
Skin contact:	Irritating to skin.
Ingestion:	Ingestion may cause nausea and vomiting.

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

Inhalation:	If you feel unwell, seek medical advice (show the label where possible).
Eye contact:	Seek medical attention (show the label where possible).
Skin contact:	Seek medical attention (show the label where possible).
Ingestion:	Seek medical attention (show the label where possible).

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Section 5: Firefighting Measures



5.1. Extinguishing media:

Use extinguishing media appropriate to the surrounding fire conditions.

5.2. Special hazards arising from substance or mixture:

Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for fire fighters:

Wear self-contained breathing apparatus and protective clothing.



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Section 6: Accidental Release Measures



6.1. Personal precautions, protective equipment, and emergency procedures:	Ensure adequate ventilation of the working area. Avoid contact with skin and eyes.
6.2. Environmental precautions:	Do not allow product to enter drains. Prevent further spillage if safe.
6.3. Methods and material for containment and cleaning up:	Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4. Reference to other sections:	See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION for further information. See section 13. DISPOSAL CONSIDERATIONS for further information.

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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.



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Section 8: Exposure Controls/Personal Protection



8.1. **Control parameters:**

<u>Components</u>	<u>CAS-No.</u>	<u>8 hour TWA</u>	<u>15 min. STEL</u>	<u>Basis</u>
Sodium Hydroxide	1310-73-2	2 mg/m ³	2 mg/m ³	UK EH40 WEL

8.2. **Exposure controls**

8.2.1 **Appropriate engineering controls:**

Ensure adequate ventilation of the working area.

8.2.2 **Individual protection measures:**

Wear protective clothing.

Eye / face protection
Skin protection – Hand protection
Skin protection - Other
Respiratory protection - equipment when necessary.
Occupational exposure controls - animal

Approved safety goggles.
Wear suitable gloves.
Wear suitable protective clothing.
Wear suitable respiratory

Keep away from food, drink and feedingstuffs.

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Section 9: Physical and Chemical Properties



9.1.0. Information on basic physical and chemical properties

Appearance:	Viscous Liquid	Explosion limits:	Not determined.
Colour:	Opaque / Colourless	Vapor pressure:	Not determined.
Odor:	Characteristic	Density at 20 °C	1.250 g/cm ³
Odor threshold:	Not determined.	Relative density:	Not determined.
pH-value at 20 °C	13.5 ± 0.5	Vapor density:	Not determined.
Melting point:	Not determined.	Evaporation rate:	Not determined.
Boiling point:	Not determined.	Solubility in / Miscibility:	Fully miscible.
Flash point:	Not applicable	Oxidizing properties:	Not determined.
Flammability (solid, gaseous):	Not applicable	Partition coefficient (n-octanol/water):	Not determined.
Auto-ignition temperature:	Not determined.		



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Decomposition temperature:	Not determined.		
Self-igniting:	Not determined.	Dynamic at 20 °C	Not determined.
Danger of explosion:	Product does not present an explosion hazard.	Kinematic:	Not determined.

9.2. Other information

Conductivity:

No data available

Surface tension:

No data available

Gas group:

No data available

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Section 10: Stability and Reactivity



10.1 Reactivity:	Stable under normal conditions.
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	No data is available on this product.
10.4 Conditions to avoid:	No data is available on this product.
10.5 Incompatible material:	No data is available on this product.
10.6 Hazardous decomposition products:	No data is available on this product.

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Section 11: Toxicological Information



11.1 Information on toxicological effects	
11.2 Skin corrosion/irritation:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.
11.3 Serious eye damage/irritation:	Corneal burns may occur. May cause permanent damage.
11.4 Acute toxicity:	Not determined.



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Section 12: Ecological Information



12.1 Toxicity:	Not determined.
12.2 Persistence and degradability:	No data is available on this product.
12.3 Bio accumulative potential:	No data is available on this product.
Partition coefficient:	No data is available.
12.4 Mobility in soil:	No data is available on this product.
12.5 Results of PBT and yPyB assessment:	No data is available on this product.
12.6 Other adverse effects:	No data is available on this product.

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Section 13: Disposal Considerations




13.1 Waste treatment methods:	Dispose of in compliance with all local and national regulations.
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Section 14: Transport Information



14.1 UN number:	UN 3266
14.2 UN proper shipping name:	CORROSIVE LIQUID, BASIC, INORGANIC N.O.S. (Contains Sodium Hydroxide)
14.3 Transport hazard class(es)	8 
14.4 Packing group:	II
14.5 Environmental hazards Marine pollutant:	No NO
14.6 Special precautions for user:	Tunnel code: E Transport category: 2



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14.7 Transport in bulk according to Annex II of MARPOOL 73/78 and the IBC Code:

This product is not intended to be transported in bulk.

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Section 15: Regulatory Information



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

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.

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Section 16: Other Information



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.



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Text of risk phrases in Section 2:
Text of hazard statements in Section 3:

2 - Hazard pictograms.
2 - Signal Word.
12 - 12.1. Toxicity.
15 - Labelling.
15 - Risk phrases.
15 - Safety phrases.

R35 Causes severe burns
R41 Risk of serious damage to eyes.

Skin Corr. 1A: H314
Causes severe skin burns and eye damage

Eye Dam. 1: H318
Causes serious eye damage.

Aquatic Chronic 2: H412
Harmful to aquatic life with long-lasting effects.

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

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