

## H.F. DETERGENT

### 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **H.F. DETERGENT**  
Other Names: Corrosive Liquid, N.O.S.  
Manufacturer's Product Code: HF5, HF20  
Product Use: Hard-surface cleaner for application by spray and wipe, mop or sponge.

#### COMPANY DETAILS

Company: Agar Cleaning Systems Pty. Ltd.  
Address: 12-14 Cope Street, Preston, Vic. 3072  
Telephone: 03 9480 3000 Facsimile: 03 9480 5100  
Web: [www.agar.com.au](http://www.agar.com.au)  
Agar MSDS are available from this website.  
E-mail: [admin@agar.com.au](mailto:admin@agar.com.au)

Emergency Telephone Number: **131 126** (Aust wide)

### 2 HAZARDS IDENTIFICATION

Hazardous according to criteria of Worksafe Australia.  
**Corrosive C.**

**R34** Causes burns.

**S2** Keep out of the reach of children.

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

**S37/39** Wear suitable gloves and eye/face protection.

**S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

H.F. Detergent becomes non-hazardous when diluted below 50%.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Ingredients:

Chemical Entity:	CAS No.:	Proportion:
2-butoxy ethanol	111-76-2	< 10%
sodium metasilicate	6834-92-0	< 10%
sodium hydroxide	1310-73-2	< 10%
sequestrants	non-haz	< 10%
anionic surfactant	non-haz	< 10%
water	7732-18-5	to 100%

### 4 FIRST AID MEASURES

Poisons Information Centre: Phone **131 126**

Swallowed: If poisoning occurs, contact a doctor or Poisons Information Centre. Seek urgent medical assistance. If swallowed, do NOT induce vomiting. Give a glass of water. Rinse mouth with water. Never give anything by mouth to an unconscious person.

Eye: Immediately hold the eyes open and wash continuously

for at least 15 minutes with fresh running water from an eyewash facility. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to doctor or hospital without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Skin: Remove any contaminated clothing and flush area with water. Seek medical attention in the event of irritation.

Inhaled: Remove patient to fresh air. Apply resuscitation if victim is not breathing. DO NOT use direct mouth-to-mouth method if victim has swallowed or inhaled the substance; use alternative respiratory method or proper device. Administer oxygen if breathing is difficult.

Notes to Physician: Treat symptomatically as for strong alkaline material.

### 5 FIRE FIGHTING MEASURES

Fire/Explosion Hazard: H.F. Detergent is not combustible.  
Fire Extinguishing Media: Water spray or fog. Foam. Dry chemical powder. Carbon dioxide.

Fire Fighter's PPE : Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural fire-fighters uniform is NOT effective for this material.

Special Fire-Fighting Procedures: None.

Unusual Fire Hazards: None.

Hazardous products of combustion: Thermal decomposition in a large fire may yield toxic fumes.

### 6 ACCIDENTAL RELEASE MEASURES

Eliminate all ignition sources within 50m. Clean up all spills immediately. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Stop leak if safe to do so – prevent entry into waterways, drains or pits. Cover with DRY earth, sand or non-combustible material followed by plastic sheet to minimise spreading or contact with rain. DO NOT get water inside containers.

If spilled on clothing, it should be removed and laundered before re-use.

### 7 HANDLING AND STORAGE

Storage and Transport: Store in a cool, dry place that is well ventilated and away from foodstuff containers. Keep containers closed at all times. Keep out of reach of children.

Incompatibility (Materials to avoid for purposes of transport, handling and storage only): Not to be loaded with goods of Class 1, Class 4.3 (dangerous when wet), Class 5 (oxidising agents), Class 7, Class 8 (strong acids) or foodstuffs.

Please turn to page 2.

## H.F. DETERGENT

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: None assigned for mixture. Data for principal ingredients only:

Atmospheric Contaminant Exposure Standard for:  
2-butoxy ethanol TWA 25 ppm 'Skin'  
[Source: Worksafe Australia NOHSC : 1003 (1995)]

Engineering Controls: Mechanical Ventilaton: Not required.

Personal Protection:

Gloves – Impervious natural rubber, butyl rubber, nitrile or PVC gloves should be worn.

Note: Resistance of glove materials can vary. Evaluate resistance under conditions of use and maintain PPE carefully.

Eye-protection - Suitable eye/face protection should be worn.

Other - Protective overalls are desirable. An eyewash unit should be available.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Transparent fluorescent red-orange liquid

Odour: Butyl odour

pH = 13 ± 0.5

Vapour Pressure: N/K

Vapour Density : N/K

Boiling Point : 100°C

Freezing Point: < 0°C

Solubility in water: Infinitely miscible

Specific Gravity : 1.03

Evaporation rate : As water

% Volatile by vol: 80 – 90%

### 10 STABILITY AND REACTIVITY

Stable.

Do not store in aluminium or galvanised containers. Store away from acids.

Hazardous polymerization: None.

### 11 TOXICOLOGICAL INFORMATION

Health Affects: *Acute* –

Swallowed: Because of its alkalinity in the undiluted state, H.F. is corrosive to the gastro-intestinal tract if swallowed.

Eye: Corrosive to the eyes.

Skin: Principal route of exposure is usually by skin contact.

One component may be absorbed by the skin and is capable of causing skin reactions. Corrosive and irritating to the skin on contact.

Inhalation: Risk is low if product is used as directed, but breathing of concentrated vapour should be avoided.

Symptoms of excessive inhalation include irritation of mucous membranes and respiratory system, headache and nausea. Avoid generating a mist which may cause coughing.

Health Affects – *Chronic*: Repeated or prolonged skin contact may cause burns, swelling, blistering or dermatitis.

Toxicity data: Not available for mixture.

2-butoxy ethanol: Acute oral (rat) LD50: 1153 mg/kg.  
Inhalation (LC50) (mice): 700 ppm/7hrs.  
sodium metasilicate: oral (rat) LD50: 1153 mg/kg.  
(Note: this data is from published information. Agar Cleaning Systems does not carry out animal tests).

### 12 ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Persistence and degradability: -

Mobility: -

Advice: Avoid contaminating waterways.

### 13 DISPOSAL CONSIDERATIONS

For disposal, refer to State Land Waste Management authority.

### 14 TRANSPORT INFORMATION

UN No.: 1719 | Class: 8 | Packg.Group: II | Hazchem: 2R

### 15 REGULATORY INFORMATION

Poisons Schedule Number: Schedule 5.

### 16 OTHER INFORMATION

**AICS Listing:** All components of H.F. Detergent are listed on the Australian Inventory of Chemical Substances (AICS).

Date: This MSDS issued: April 24, 2006

Abbreviations: N/K = Not Known

TWA = Time Weighted average

STEL = Short term exposure limit

CAS = Chemical Abstracts Service

N/A = Not applicable

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End of MSDS.