



**NU FLOW/SULPHURIC ACID 96%****SAFETY DATA SHEET****Hazardous thermal (de)**

**composition products** : Attacks many metals liberating hydrogen gas.  
Combustion will generate : oxides of sulphur.

**Special fire-fighting procedures**

: Fire fighters should wear self-contained positive breathing apparatus (SCBA) and full turnout gear.

**Protection of fire-fighters**

: Wear full protective clothing and self-contained breathing apparatus.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precaution** : Ventilate the area to dispel possible toxic decomposition fumes. Wear appropriate protective clothing.

**Environmental precautions and clean up methods**

: Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.  
Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

**7. HANDLING AND STORAGE**

**Handling** : Use well ventilated area. Avoid inhaling vapour. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available.

**Storage**

: Storage area should be : cool. Under cover. Well ventilated. Stock tanks should be banded separately, away from organic substances such as wood, paper and straw and other reactive chemicals. Avoid water or steam from entering the container at all times – see condition to avoid. Store in rubber lined tanks for acid concentrations less than 70%. Suitable materials are :- PTFE, Glass. Do not store in :- Metal drums. Nylon. Plasticised PVC.

**Packaging materials recommended use**

: Use original container

**8. EXPOSURE CONTROLS/PRESONAL PROTECTION**

**Engineering measures** : Whatever practicable, the product should be handled within a closed system

**Hygiene measures**

: Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of the day.

**Workplace Exposure Limits**

: Not available.

**Personal protective equipment**

**Respiratory system** : Respiratory protection if there is a risk of uncontrolled exposure to vapour.

**Skin and body**

: Wear : Rubber boots. Rubber apron. if there is danger of splashing, wear PVC or other impermeable suit.

**Hands**

: Full length gloves must be worn during handling operations

**Eyes**

: Chemical goggles must be worn.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state** : Liquid  
**Colour** : Colourless or Dark Brown  
**Odour** : Acid. Acidic.  
**Boiling point** : 124 to 163.  
**Melting point** : Melts between -42 and - 10.  
**Density** : Not available  
**Vapour density** : 3.4.  
**Solubility** : Completely soluble.  
**pH** : > 1.  
**Flash point** : Not available.  
**Viscosity** : 5.4- 11 cP at 20C.

**NU FLOW/SULPHURIC ACID 96%****SAFETY DATA SHEET****10. STABILITY AND REACTIVITY**

**Stability** : This product is stable.

**Conditions to avoid** : Exposure to water or moisture. High temperatures.

**Materials to avoid** : Water, Oxidising agents, Organic materials, Strong acids, Nitrates, Chlorates, Alkalis.

**Hazardous decomposition products** : Attacks many metals liberating hydrogen gas.  
Combustion will generate : oxides of sulphur.

**11. TOXICOLOGICAL INFORMATION**

**Local effects**

**Skin irritation** : Extremely hazardous in case of skin contact (corrosive).

**Eye irritation** : Extremely hazardous in case of eye contact (irritant).

**Acute toxicity** : LD<sub>50</sub> Not available  
LD<sub>50</sub> Not available

**Chronic toxicity** : Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation, leading to frequent attacks of bronchial infection.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity** : High concentrations injure aquatic life by effect on pH. The product is expected to be slightly toxic to aquatic species.

**13. DISPOSAL CONSIDERATIONS**

**Methods of disposal ;  
Waste of residues ;  
Contaminated packing** : Dispose of in accordance with all applicable local and national regulations.

**Waste classification** : Not applicable.

**14. TRANSPORT INFORMATION****International transport regulations**

<b>UN :</b>	<b>UN number</b>	1830
<b>UN :</b>	<b>Proper shipping name</b>	Sulphuric acid 96%
<b>UN :</b>	<b>Class</b>	8
<b>UN :</b>	<b>Packing group</b>	II
<b>UN :</b>	<b>Label</b>	Corrosive
<b>ARD/RID :</b>	<b>Class</b>	8
<b>ARD/RID :</b>	<b>Item number</b>	1 (b)
<b>ARD/RID :</b>	<b>Hazard identification number</b>	80
<b>IMDG :</b>	<b>Proper shipping name</b>	Sulphuric acid 96%
<b>IMDG :</b>	<b>Packing group</b>	II
<b>IMDG :</b>	<b>Class</b>	8
<b>IATA :</b>	<b>Packing group</b>	II
<b>IATA :</b>	<b>Class</b>	8

**15. REGULATORY INFORMATION****EU Regulations****Hazard symbol(s)**

**Classification** : Corrosive

**Risk phrases** : R35 Causes severe burns.

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**HU FLOW/SULPHURIC ACID 96%****SAFETY DATA SHEET**

**Safety phrases** : S1/2 Keep locked up and out of reach of children.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S30 Never add water to this product.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Contains** : -SULPHURIC ACID> 96%

**Product use** : Classification and labeling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use. – Consumer applications.

**16. OTHER INFORMATION**

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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## TECHNICAL INSTRUCTION LEAFLET

### NU-FLOW/SULPHURIC ACID DRAIN CLEANER

#### DESCRIPTION

A POWERFUL ACID CLEANER BASED ON SULPHURIC ACID AND INHIBITORS FORMULATED TO CLEAR SMALL BLOCKAGES IN DRAINS CAUSED BY GREASE, ALGAE, COFFEE AND TEA GROUTS AND URIC ACID BUILD UP. IT IS NOT SUITABLE FOR LARGE DRAINS AND CONTACT WITH PORCELAIN SHOULD BE AVOIDED.

#### PRECAUTIONS AND FIRST AID

IN ALL CASES OF USE, FULL EYE/FACE PROTECTION AND SUITABLE PVC GLOVES MUST BE WORN ANY SKIN CONTACT MUST BE WASHED OFF WITH PLENTY OF WATER IMMEDIATELY. CONTAMINATED CLOTHING MUST BE REMOVED IMMEDIATELY AND WASHED BEFORE REUSE. ANY SKIN AFFECTED MUST BE WASHED WITH WARM SOAPY WATER AND DRIED THOROUGHLY.

IN CASE OF EYE CONTACT, FLOOD EYES IMMEDIATELY WITH PLENTY OF WATER FORCING EYELIDS OPEN AND CONTINUE TO WASH FOR AT LEAST 15 MINUTES, GET MEDICAL ADVICE IMMEDIATELY OR GET VICTIM TO HOSPITAL SHOW LABEL OR THIS LEAFLET FAILURE TO ACT IMMEDIATELY CAN CAUSE PERMANENT EYE DAMAGE OR LOSS OF SIGHT

#### DIRECTIONS.

USE AS SUPPLIED AND DO NOT UNDER ANY CIRCUMSTANCE ADD WATER TO THIS PRODUCT. IF WATER IS PRESENT, WAIT UNTIL IT HAS DRAINED AWAY OR SCOOP OUT AS MUCH AS POSSIBLE BEFORE ADDING NU-FLOW. POUR A SMALL QUANTITY DIRECTLY INTO DRAIN 5/6 FL. OZS. AND ALLOW TO REMAIN IN CONTACT FOR A FEW MINUTES TO WORK. THE CONTACT AREA OF THE BLOCKAGE WILL GET HOT. FLUSH AWAY WITH CLEAN WATER. REPEAT AS NECESSARY UNTIL DRAIN IS CLEAR. IF BLOCKAGE IS NOT ACCESSABLE IT MAY BE POSSIBLE TO FEED A PLASTIC HOSE TO THE AREA AND POUR NU-FLOW DOWN THE HOSE USING A SMALL FUNNEL TO FACILITATE CONTACT. NU-FLOW IS NOT SUITABLE FOR ADDITION TO TOILET BOWLS, WASH OFF ALL PORCELAIN CONTACT AS SOON AS POSSIBLE TO PREVENT STAINING AND DAMAGE. DO NOT USE ON ANY METALS PARTICULARLY DECORATIVE SURFACES.

IF FURTHER ASSISTANCE IS REQUIRED, CONTACT THE SUPPLIER OR JAYGRADE LTD. AT THE ADDRESS BELOW.

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