

Material Safety Data Sheet
Reference Number 000000004758 Product name Turpinal® 4NL

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Identification

Product name: **Turpinal® 4NL**

Reference Number 000000004758 Date 14.01.2004

Type of product Preparation

Use of the substance or preparation

Cosmetics, Complexing agents

Company/Supplier

The Soap Kitchen, Unit 2E Hatchmoor Ind/Est, Torrington, Devon, EX38 7HP

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Substance CAS No. EC No. EC Classification % w/w

tetrasodium etidronate 3794-83-0 223-267-7 Xi, R36/38 30,0 %

disodium phosphonate 13708-85-5 237-249-1 <=2,0 %

water 7732-18-5 231-791-2 %

See Section 16 for full text of R-phrases

3. HAZARDS IDENTIFICATION

Classification of the substance/preparation

EU Dangerous Preparations Directive 1999/45/EC.

Not classified as dangerous

Index Number (Annex I):

Human health effects

Slightly irritating to skin but not sufficient for classification.

Environmental effects

On the basis of available information, this material is not expected to produce any significant adverse

environmental effects when recommended use instructions are followed.

4. FIRST AID MEASURES

General

Grossly contaminated clothing:
Remove contaminated clothing.
Wash before re-use.

Eye contact

Rinse immediately with plenty of water.
Continue for at least 15 minutes.
Obtain medical advice if there are persistent symptoms.

Skin contact

Wash immediately with plenty of water.
Obtain medical advice.

Inhalation

Remove patient to fresh air.
Obtain medical advice if there are persistent symptoms.

Ingestion

Give water to drink.
Obtain medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing media

Water spray, foam, dry chemical, or carbon dioxide

Exposure hazards

None known

Combustion products:
carbon dioxide, carbon monoxide (CO), phosphorus oxides (P_xO_y), phosphines

Protective equipment

Firefighters, and others exposed, wear self-contained breathing apparatus.
Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protection recommended in section 8.

Environmental precautions

Keep out of drains and water courses.

Methods for cleaning up

Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush spill area with water.

7. HANDLING AND STORAGE

Handling

Good industrial practice in housekeeping and personal hygiene should be followed. Wash hands thoroughly after handling or contact.

Engineering measures

Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination such as processing equipment.

Storage

Keep in a cool, well-ventilated place.
Keep container tightly closed.
Stable under normal conditions of handling and storage.

Temperature 5 - 30 C

Use these materials for equipment glass lining, PVC, polypropylene, glass reinforced plastic, polyethylene

Unsuitable materials of construction carbon steel, aluminium

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit

No specific occupational exposure limit has been established.

Respiratory protection

Avoid breathing vapour or mist.
Use approved respiratory protection equipment when airborne exposure is excessive.
Consult the respirator manufacturer to determine the appropriate type of equipment for a given application.
Observe respirator use limitations specified by the manufacturer.

Hand protection

Wear rubber gloves. Suitable materials : PVC, nitrile (rubber).

Eye protection

Use good industrial practice to avoid eye contact.
Wear chemical goggles.

Skin protection

Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice.

Wash thoroughly after handling.
Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Form: liquid
Colour: colourless
Odour: odourless

Important health, safety and environmental information

pH: 10 - 12 @ 10g/l @ 25 C
Flash point:

Non flammable aqueous solution

Specific gravity: 1,3 @ 20 C
Water solubility: completely miscible
Other information

10. STABILITY AND REACTIVITY

Conditions to avoid

Do not expose to extreme temperatures.

Materials to avoid

Contact with strong oxidizing agents.
Contact with acids.
Attacks many metals.
Hazardous polymerization does not occur.

Hazardous decomposition products

Decomposition products: carbon monoxide (CO), carbon dioxide, phosphorus oxides (P_xO_y), phosphines

11. TOXICOLOGICAL INFORMATION

This product has not been tested for toxicity, but data obtained on similar products are summarised below :

Acute animal toxicity data

Oral LD50 ,rat, > 2.850 mg/kg ,

Dermal LD50 , rat, > 5.000 mg/kg ,

Eye irritation rabbit, Slightly irritating to eyes but not sufficient for classification. 24 h

Skin irritation rabbit, Slightly irritating to skin but not sufficient for classification. 4 h rabbit, Causes burns. 24 h

Repeat dose toxicity: rat & dog, diet, subchronic,
Minor effects (less than lesions) were present in some animals at the end of the observation period. Data obtained on similar product.

Repeat dose toxicity: rat, diet, chronic,
Minor effects (less than lesions) were present in some animals at the end of the observation period. Data obtained on similar product.

Repeat dose toxicity: dog, diet, chronic,
Minor effects (less than lesions) were present in some animals at the end of the observation period. Data obtained on similar product.

Repeat dose toxicity: dog, subcutaneous, chronic,
Severe effects on the bone observed in repeat dose studies. Data obtained on similar product.

Developmental toxicity rat & rabbit, gavage, No treatment-related effects were observed. Data obtained on similar product.

Reproductive toxicity rat, gavage, This material had no effect on reproduction or fertility. Data obtained on similar product.

Carcinogenicity dog & rat, diet, chronic No evidence of treatment related tumours. Data obtained on similar product.

Mutagenicity No genetic effects were observed in standard tests using bacterial and animal cells.

12. ECOLOGICAL INFORMATION

This product has not been tested for environmental toxicity, but data obtained on similar products are summarized below :

Environmental Toxicity:

Invertebrates 48 h EC50 Water flea (*Daphnia magna*) 527 mg/l

Fish 96 h LC50 Rainbow trout (*Oncorhynchus mykiss*) 368 mg/l

96 h LC50 Bluegill sunfish (*Lepomis macrochirus*) 868 mg/l

Algae 14 d EC50 Algae (*Selenastrum capricornutum*) 39,1 mg/l

Algal growth inhibition is due to ability of this product to complex materials not to toxicity per se.

96 h EC50 Algae (*Selenastrum capricornutum*) 9,16 mg/l

Algal growth inhibition is due to ability of this product to complex materials not to toxicity per se.

Environmental fate

Biodegradation Closed Bottle(OECD 301D) BOD30/COD 5 % Degrades after

acclimatization

Zahn-Wellens(OECD 302B) Dissolved Organic Carbon removed 33 % 28 d

Modified OECD Screening(OECD 301E) theoretical CO₂ evolution 2 %

Modified SCAS(OECD 302A) Dissolved Organic Carbon removed 90 %

Bioconcentration factor not expected to bioaccumulate.
(BCF)

13. DISPOSAL CONSIDERATIONS

All local and national regulations should be followed.

Small quantities : Adjust pH between 6 and 9 and flush away with plenty of water.

Large quantities :

Burn only in proper incinerator.

14. TRANSPORT INFORMATION

ROAD/RAIL

Other Not regulated for transport.

SEA

Not regulated for transport.

AIR

Not regulated for transport.

15. REGULATORY INFORMATION

EC label

EU Dangerous Preparations Directive 1999/45/EC.

None.

Contains:

tetrasodium etidronate

Other regulation

Germany - WGK (Wassergefährdungsklasse) : 2

16. OTHER INFORMATION

Prepared by the Solutia Hazard Communication Group.

Data sheets prepared or revised since August 2002 have been completed in accordance with the European Communities Directive 2001/58.

Reason for revision: Error correction, Section 1

R-phrases

R36/38 - Irritating to eyes and skin.

Number format: "," used as decimal separator.

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