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## MATERIAL SAFETY DATA SHEET PRODUCT INFORMATION

# NORSCALE

### SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER

**NORSAN NORSCALE**  
Concentrated Lime & Protein Scale  
Remover

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

NORSAN UK  
12 GATWICK DISTRIBUTION CENTRE  
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WEST SUSSEX  
RH10 9RW

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#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE/MIXTURE AND USES ADVISED AGAINST

##### General Description:

A clear liquid, based on phosphoric acid blended with surfactants and inhibitors. Soluble in all dilutions with water. For the removal of lime and protein scales from sinks, basins, boilers, vats and primary plumbing systems.

##### Directions For Use:

2% to 25% dilution with water. Always add to water for correct and safe mixing. Rinse surface well with warm water. For kettle descaling pour 100ML into kettle, add water and leave for approximately 15-20 minutes. After elapsed time empty kettle and rinse. Boil kettle, empty and rinse again. Safe to use on stainless steel and chrome fittings.

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

**CLASSIFICATION UNDER CLP  
(EC) NO 1272/2008 [EU-GHS/CLP]**

**PHYSICAL AND CHEMICAL HAZARDS**  
**HUMAN HEALTH**  
**ENVIRONMENT**

**CLASSIFICATION UNDER CHIP  
(67/548/EEC OR 1999/45/EEC)**

Not classified.  
Skin. Corr. 1A B C, H314  
Not classified.

#### 2.2 LABEL ELEMENTS

**PICTOGRAM CODE**

GHS05

**PICTOGRAM**



**SIGNAL WORD**

DANGER

**HAZARD STATEMENTS**

H314 - Causes severe skin burns and eye damage.

## PRECAUTIONARY STATEMENTS

### PREVENTION

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

### STORAGE

P102 - Keep out of reach of children.

### RESPONSE

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### DISPOSAL

P501 - Dispose of contents/container to licensed waste disposal site.

## 2.3 OTHER HAZARDS

EUROPEAN UNION  
(DANGEROUS SUBSTANCES DIRECTIVE)

None known

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

SUBSTANCE	CAS. NO	EINECS No.	HAZARD	RANGE
Phosphoric Acid	7664-38-2	231-633-2	H314, H319	>30%

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

#### GENERAL ADVICE

Remove contaminated clothing and wash before reuse.

#### AFTER INHALATION

Move the exposed person(s) to fresh supply of air. Get medical attention if discomfort continues.

#### AFTER CONTACT WITH SKIN

Wash from skin immediately. If skin becomes sore or inflamed seek medical attention.

#### AFTER CONTACT WITH EYES

Irrigate with water for 10 to 15 minutes until irritation subsides and seek medical attention.

#### AFTER INGESTION

If conscious, give plenty of water to drink, do not induce vomiting, obtain medical attention immediately.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The severity of symptoms described will vary depending on concentration and length of exposure.

#### INHALATION

#### CONTACT WITH SKIN

Skin irritation.

#### CONTACT WITH EYES

Eye irritation.

#### INGESTION

#### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically. Use water to neutralize product in the case of skin, eye contact or ingestion.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 SUITABLE EXTINGUISHING MEDIA

This product is not flammable. Use fire extinguishing media appropriate for surrounding area.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

May produce oxides of carbon, nitrogen, sodium and sulphur.

#### 5.3 ADVICE FOR FIRE FIGHTERS

Wear self-contained breathing apparatus and protective clothing as appropriate to the associated fire.

### SECTION 5: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Always use appropriate PPE. Avoid breathing dust/vapours (if any) and ensure adequate ventilation. Cordon off area to other personnel.

#### 6.2 ENVIRONMENTAL PRECAUTION

Do not allow to enter surface water drains, soil/subsoil. Spillages or discharges into water course must be reported immediately to environment agency.

#### 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Absorb with sand or binder and dispose of according to local regulations. Small spillages may be flushed to a foul drain.

#### 6.4 REFERENCE TO OTHER SECTIONS

See Section 8 and 13 for more information on exposure and disposal.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Provide good ventilation in working area. Wash hands after use and do not allow to enter surface water drains.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store only in original containers out of reach of children. Storage temperature should be between 5°C and 30°C.

#### 7.3 SPECIFIC END USE(S)

See section 1.2 and label.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

(Hydrogen Chloride) OES: TWA 8 hours - STEL 15 mins 5ppm; (Orthophosphoric Acid) OES: TWA 8 hours - STEL 15 mins 2mg / m<sup>3</sup>

#### 8.2 EXPOSURE CONTROLS

Do not eat, drink or smoke whilst working and wash hands after use.

#### PICTOGRAM(S)



WEAR SUITABLE HAND PROTECTION      WEAR SUITABLE EYE PROTECTION

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

##### APPEARANCE/ODOUR

Clear odourless liquid (Method: QP22).

##### pH LEVEL

<1 (Method: QP03).

##### FLAMMABLE/FLASH POINT

Not flammable.

##### SOLUBILITY

Soluble/dispersible in water.

##### VISCOSITY

Non-viscous @20°C (Method: QP04).

#### 9.2 OTHER INFORMATION

No information available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Converts at elevated temperatures (>150°C) to pyrophosphoric acid and eventually (>300°C) to metaphosphoric acid. Phosphorous pentoxide fumes may also be released.

### 10.2 CHEMICAL STABILITY

No decomposition if stored and applied as directed.

### 10.3 POSSIBILITY OF HAZARDOUS REACTION

Exothermic reaction with strong alkalis.

### 10.4 CONDITIONS TO AVOID

Avoid exposure to high temperature or direct sunlight.

### 10.5 INCOMPATIBLE MATERIALS

None known.

### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of phosphorus.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

#### INHALATION

#### CONTACT WITH SKIN

Skin irritation. LD50 1530mg/Kg Oral-rat. 2740mg/Kg skin-rabbit.

#### CONTACT WITH EYES

Eye irritation.

#### INGESTION

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICITY

The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

### 12.1 TOXICITY

No aquatic testing has been carried out for this product.

### 12.2. PERSISTENCE AND DEGRADABILITY

### 12.3. BIOACCUMULATIVE POTENTIAL

### 12.4. MOBILITY IN SOIL

The product is miscible with water. May spread in water systems.

### 12.5. RESULTS OF PBT AND VPVB ASSESSMENT

### 12.6. OTHER ADVERSE EFFECTS

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. WASTE TREATMENT METHODS

This product is not classified as hazardous waste under the special waste (amendment) regulations (SI 1996/2019). For disposal contact a licensed waste management company. Rinse out container at least twice in water and recycle if facilities exist or dispose of as commercial waste. European waste catalogue: 20 01 29.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. UN NUMBER

1760

### 14.2. UN PROPER SHIPPING NAME

NORSAN NORSCALE

### 14.3. TRANSPORT HAZARD CLASS(ES)

CORROSIVE LIQUID, N.O.S

### 14.4. PACKING GROUP

II



#### 14.5. ENVIRONMENTAL HAZARDS

CORROSIVE LIQUID, N.O.S

#### 14.6. SPECIAL PRECAUTIONS FOR USER

#### 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE

### SECTION 15: REGULATORY INFORMATION

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

##### STATUTORY INSTRUMENTS

Classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

##### APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

##### GUIDANCE NOTES

ECHA Guidance on the application of CLP criteria (Version 4: November 2013). ECHA Guidance on the compilation of safety data sheets (Version 2.1: February 2014)

#### 15.2. CHEMICAL SAFETY ASSESSMENT

No chemical safety assessment has been carried out as product is a mixture.

### SECTION 16: OTHER INFORMATION

#### 16.1. REVISION COMMENTS

This product is now using classification from GHS/CLP- Regulation (EC) No 1272/2008 classification and labelling & packaging of. The risk statements listed below relate to the raw materials in the product not the product itself.

##### HAZARD STATEMENT IN FULL (CLP)

H314 - Causes severe skin burns and eye damage.

H319 - Causes serious eye irritation.

#### DISCLAIMER

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. The user assumes all liability for any damage or injury resulting from abnormal use, from the failure to adhere to recommended practises, or from hazards inherent in the nature of the product. In accordance with our policy of incorporating technical improvements, we reserve the right to amend any specification without notice.