



Revision: 27 Jan 2021

## SAFETY DATA SHEET

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

## 1.1 Product identifier

- Product Name: NITRO
- Product Part Number: NITR

## 1.2 Relevant identified uses of the substance or mixture and uses advised against -

Use of the substance/mixture: Cleaning agent. Detergent. Professional use. 1.3

## Details of the supplier of the safety data sheet

- Name of Supplier: SOLUTION WORLD OF CLEAN LTD
- Address of Supplier: UNIT 1 WARREN ROAD INDIAN QUEENS CORNWALL TR9 6TL  
UK
- Telephone: +44(0)1209 204343
- Responsible Person: N. ROBERTSON-VOUSDEN
- Email: Operations@solution-uk.com

## 1.4 Emergency telephone number

- Emergency Telephone: +44(0)1209 204343 (8.30am - 5pm)

**SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

- CLP: Eye Dam. 1

## 2.2 Label elements



GHS05

- Signal Word: Danger
- Hazard statements
  - H318 - Causes serious eye damage.
  - H402 - Harmful to aquatic life.
- Precautionary statements
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P310 - Immediately call a POISON CENTER or doctor/physician.
  - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

## 2.3 Other hazards

- Contains: ETHOXYLATED ALCOHOL

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

- TETRAPOTASSIUM PYROPHOSPHATE
  - CAS Number: 7320-34-5
  - EC Number: 230-785-7
  - Concentration: 5-10%
  - Categories: Eye Irrit. 2
  - Symbols: GHS07
  - H Statements: H319
- ETHOXYLATED ALCOHOL
  - CAS Number: 68439-46-3
  - EC Number: 614-482-0
  - Concentration: 2-5%
  - Categories: Acute Tox. 4, Eye Dam. 1
  - Symbols: GHS05, GHS07
  - H Statements: H302, H318
- POLYALKYL AMMONIUM SALT
  - CAS Number:
  - EC Number:
  - Concentration: 1-3%
  - Categories: Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2
  - Symbols:
  - H Statements: H302, H315, H319, H411
- TETRASODIUM (1-HYDROXYETHYLIDENE)BISPHOSPHONIC ACID
  - CAS Number: 3794-83-0
  - EC Number: 223-267-7
  - Concentration: 1-3%
  - Categories: Acute Tox. 4, Eye Irrit. 2
  - Symbols: GHS07
  - H Statements: H302, H319
- SODIUM METASILICATE PENTAHYDRATE
  - CAS Number: 10213-79-3
  - EC Number: 229-912-9
  - Concentration: 0-1%
  - Categories: Met. Corr. 1, Skin Corr. 1B, STOT SE 3
  - Symbols: GHS05, GHS07
  - H Statements: H290, H314, H335
- AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES
  - CAS Number: 308062-28-4
  - EC Number: 931-292-6
  - Concentration: 0-1%
  - Categories: Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2

Datasheet Number: NITR - v2.0.0

2

Prometheus version 1.6.4.5  
NITRO

Revision: 27 Jan 2021

## **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

- Contact with eyes  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Seek medical advice
- Contact with skin  
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water  
Seek medical attention if irritation persists
- Ingestion  
Do not induce vomiting  
Give plenty of water to drink  
Get medical advice/attention.
- Inhalation  
Remove person to fresh air and keep comfortable for breathing.  
Get medical advice/attention if you feel unwell.

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

- Can cause damage to the eyes

4.3 Indication of any immediate medical attention and special treatment needed - Immediately call a POISON CENTER or doctor/physician.

## **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

### 5.2 Special hazards arising from the substance or mixture

- May give off noxious and toxic fumes in a fire

### 5.3 Advice for firefighters

- Wear Breathing Apparatus

## **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

- Wear protective clothing as per section 8

### 6.2 Environmental precautions

- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

### 6.3 Methods and material for containment and cleaning up

- Absorb spillage in suitable inert material
- Remove contaminated material to safe location for subsequent disposal
- Flush spill area with copious amounts of water

## **SECTION 6: Accidental release measures (....)**

- See Section 13 for disposal

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

- Avoid contact with skin and eyes

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep container tightly closed, in a cool, well ventilated place

### 7.3 Specific end use(s)

- See section 1.2

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

- TETRAPOTASSIUM PYROPHOSPHATE  
DNEL (Industry; inhalational, long term systemic effects): 44.08 mg/m<sup>3</sup>  
DNEL (Consumer; inhalational, long term systemic effects): 10.87 mg/m<sup>3</sup>
- TETRASODIUM (1-HYDROXYETHYLIDENE)BISPHOSPHONIC ACID  
DNEL (Industry; inhalational, long term systemic effects): 16.9 mg/m<sup>3</sup>  
DNEL (Consumer; inhalational, long term systemic effects): 4.2 mg/m<sup>3</sup>  
DNEL (Industry; inhalational, long term local effects): 10 mg/m<sup>3</sup>  
DNEL (Industry; dermal, long term systemic effects): 48 mg/kg bw/day  
DNEL (Consumer; inhalational, long term local effects): 10 mg/m<sup>3</sup>  
DNEL (Consumer; dermal, long term systemic effects): 24 mg/kg bw/day
- AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES  
DNEL (Industry; inhalational, long term systemic effects):  
DNEL (Consumer; inhalational, long term systemic effects): 1.53 mg/m<sup>3</sup>  
DNEL (Consumer; dermal, long term systemic effects): 5.5 mg/kg

### 8.2 Exposure controls

#### Gloves Goggles

- Wear protective gloves/protective clothing/eye protection/face protection.
- No respiratory protection is required unless subject to contact with substance mist

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

- Appearance: Clear liquid
- Odour: Slight
- Boiling Point/Range: > 100 deg C
- Density: 1.07 g/cm<sup>3</sup> at 20 °C

- Flashpoint: Not applicable
- pH: 10.5 at 1 % concentration

Datasheet Number: NITR - v2.0.0

4

Prometheus version 1.6.4.5  
NITRO

Revision: 27 Jan 2021

## **SECTION 9: Physical and chemical properties (....)**

- Completely soluble in water

### 9.2 Other information

- No information available

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

### 10.4 Conditions to avoid

- No special requirements

### 10.5 Incompatible materials

- Incompatible with strong oxidizing substances  
Alkaline products can react with light metals such as aluminium and zinc.

### 10.6 Hazardous decomposition products

- Decomposition products may include carbon oxides

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

May cause serious damage to eyes.  
Inhalation of mist may cause coughing, shortness of breath.  
Ingestion may cause irritation to mouth and throat.

#### - TETRAPOTASSIUM PYROPHOSPHATE

LD<sub>50</sub> (oral, rat): 2,440 mg/kg

LD<sub>50</sub> (dermal, rabbit): >2000 mg/kg

#### - TETRASODIUM (1-HYDROXYETHYLIDENE)BISPHOSPHONIC ACID

LD<sub>50</sub> (oral, rat): 940.0

LD<sub>50</sub> (dermal, rabbit): >5000 mg/kg

#### - AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES

LD<sub>50</sub> (oral, rat): 1,064.0 mg/kg

LD<sub>50</sub> (dermal, rabbit):

LD<sub>50</sub> (skin, rat): >2000 mg/kg

## **SECTION 12: Ecological information**

### 12.1 Toxicity

- TETRAPOTASSIUM PYROPHOSPHATE

## SECTION 12: Ecological information (....)

LC<sub>50</sub> (fish): >100 mg/l (96 hr)  
PNEC (Fresh water): 0.05 mg/l  
PNEC (Marine water): 0.005 mg/l  
PNEC (STP): 50 mg/l

### - TETRASODIUM (1-HYDROXYETHYLIDENE)BISPHOSPHONIC ACID

EC<sub>50</sub> (daphnia): 754 mg/l (48 hr)  
LC<sub>50</sub> (fish): 278 mg/l (96 hr)  
PNEC (Fresh water): 0.096 mg/l  
PNEC (Marine water): 9.63E-3 mg/l  
PNEC (STP): 58 mg/l  
PNEC (Sediment; fresh water): 193 mg/kg  
PNEC (Sediment; marine water): 19.3 mg/kg  
PNEC (Soil): 14 mg/kg

### - SODIUM METASILICATE PENTAHYDRATE

EC<sub>50</sub> (daphnia): 1700 mg/l (48 hr)  
LC<sub>50</sub> (fish): 210 mg/l (96 hr)  
PNEC (Fresh water): 7.5 mg/l  
PNEC (Marine water): 1 mg/l  
PNEC (STP): 1000 mg/l

### - AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES

EC<sub>50</sub> (daphnia): 3.1 mg/l (48 hr)  
LC<sub>50</sub> (fish): 2.67 mg/l (96 hr)  
PNEC (Fresh water): 0.0335 mg/l  
PNEC (Marine water): 0.00335 mg/l  
PNEC (STP): 24 mg/l  
PNEC (Sediment; fresh water): 5.24 mg/kg  
PNEC (Sediment; marine water): 0.524 mg/kg  
PNEC (Soil): 1.02 mg/kg

#### 12.2 Persistence and degradability

- Biodegradable

#### 12.3 Bioaccumulative potential

- Low bioaccumulation potential

#### 12.4 Mobility in soil

- miscible with water

#### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

#### 12.6 Other adverse effects

- No information available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation

### **SECTION 13: Disposal considerations (....)**

- Do not discharge into drains or the environment, dispose to an authorised waste collection point

### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

- UN No.:
- Not applicable

#### 14.2 UN proper shipping name

- Proper Shipping Name:

#### 14.3 Transport hazard class(es)

- Hazard Class:

#### 14.4 Packing group

- Packing Group:

#### 14.5 Environmental hazards

#### 14.6 Special precautions for user

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture - The Chemicals (Hazard Information and Packaging) Regulations applies in the UK Detergents Regulation. Contains: less than 5% cationic surfactants, non-ionic surfactants, phosphonates; 5-15% phosphates.

#### 15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out

### **SECTION 16: Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H290: May be corrosive to metals. H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H318: Causes serious eye damage. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H400: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADR European Agreement concerning the International Carriage of Goods by Road

ATE Acute Toxicity Estimate

CAS Chemical Abstracts Service

CHIP Chemicals (Hazard Information and Packaging) Regulations—Directives 1999/45/EC and 67/548/EC

CLP Classification and Labelling of Chemicals—Regulation (EC) No. 1272/2008

CMR Carcinogenic-Mutagenic-Toxic for reproduction

DNEL Derived No Effect Level

EINECS European Inventory of Existing Commercial Chemical Substances

GHS Globally Harmonised System of Classification and Labelling of Chemicals

## **SECTION 16: Other information (....)**

IMDG International Maritime Dangerous Goods Code

LC50 Lethal Concentration, 50%

LD50 Lethal Dose, 50%

MARPOL International Convention for the Prevention of Pollution From Ships

NOEC No Observed Effect Concentration

NOAEL No Observed Adverse Effect Level

OEL Occupational Exposure Limit

PBT Persistent, Bioaccumulative, Toxic

PNEC Predicted No Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

vPvB very Persistent, very Bioaccumulative

RID Convention concerning International Carriage by Rail

STP Sewage Treatment Plants

WEL Workplace Exposure Limit

VOC Volatile Organic Compound

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Datasheet Number: NITR - v2.0.0

Prometheus version 1.6.4.5