

SAFETY DATA SHEET

NITROCIP

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

1.1. Product identifier

Product name	Nitrocip
Product number	3100
Container size	25L / 200L / 1000 IBCs and Bulk

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

Identified uses	Descaler. An acidic detergent for general C.I.P. applications in the food & beverage industries.
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1.3. Details of the supplier of the safety data sheet

Supplier	SKY AGRO LTD UNIT C, WEST MARCH INDUSTRIAL ESTATE, DAVENTRY NORTHAMPTON, NN11 4SA UK info@skymalt.com
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1.4. Emergency telephone number

Emergency telephone	+44 7868 494791
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards	Not Classified
Health hazards	Skin Corr. 1A - H314 Eye Dam. 1 - H318
Environmental hazards	Not Classified

2.2. Label elements

Pictogram



Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage.

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Precautionary statements	P260 Do not breathe vapour/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove person to fresh air and keep 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.
Contains	Nitric Acid 100%, Phosphoric Acid 100%, Orthophosphoric Acid 100%
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P310 Immediately call a POISON CENTER/doctor. P321 Specific treatment (see medical advice on this label). P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Nitric Acid 100% CAS number: 7697-37-2 EC number: 231-714-2	30-60%
Classification Ox. Liq. 3 - H272 Skin Corr. 1A - H314	
Phosphoric Acid 100%, Orthophosphoric Acid 100% CAS number: 7664-38-2 EC number: 231-633-2	10-30%
Classification Skin Corr. 1B - H314 Eye Dam. 1 - H318	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Chemical burns must be treated by a physician.
Inhalation	Remove person to fresh air and keep comfortable for breathing. For breathing difficulties, oxygen may be necessary. Keep affected person under observation. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention immediately.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. If breathing stops, provide artificial respiration. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention immediately.
Skin contact	Remove contaminated clothing and rinse skin thoroughly with water. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing. Wash clothing and clean shoes thoroughly before reuse.

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Eye contact Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes and get medical attention. If in doubt, get medical attention promptly.

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

Inhalation May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Shortness of breath. Burning sensation in the throat May cause coughing and difficulties in breathing.

Ingestion This product is corrosive. May cause chemical burns in mouth, oesophagus and stomach. Blood may be vomited There may be bleeding from the mouth and/or nose. May cause severe internal injury.

Skin contact This product is corrosive. Blistering may occur. May cause serious chemical burns to the skin. Progressive ulceration will occur if treatment is not immediate

Eye contact Causes serious eye damage. Corneal damage. May cause permanent damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Corrosive. In combustion emits toxic fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions Contain the spillage using bunding. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Do not touch or walk into spilled material. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Dispose of contents/container in accordance with local regulations.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Do not handle until all safety precautions have been read and understood. Avoid direct contact with the substance Provide adequate ventilation. Do not use in confined spaces without adequate ventilation and/or respirator.

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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in a cool and well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Nitric Acid 100%

Short-term exposure limit (15-minute): WEL 1 ppm 2.6 mg/m³

Phosphoric Acid 100%, Orthophosphoric Acid 100%

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

The following protection should be worn: Chemical splash goggles and face shield.

Hand protection

Wear protective gloves.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear footwear made of the following material: Polyvinyl chloride (PVC). Wear an apron and protective sleevelets made of the following material: Polyvinyl chloride (PVC). Provide eyewash station and safety shower.

Respiratory protection

Gas filter, type E. If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Acrid.
pH	pH (concentrated solution): 1 +/- 1
Evaporation rate	Slow
Relative density	1.235
Solubility(ies)	Completely soluble in water.
Viscosity	Non-viscous
Oxidising properties	Oxidising (by EC Criteria)

9.2. Other information

SECTION 10: Stability and reactivity

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10.1. Reactivity

Reactivity Stable under recommended transport or storage conditions

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur.

10.4. Conditions to avoid

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products Corrosive. In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information This product is corrosive.

Inhalation Burning sensation in mouth. May cause an asthma-like shortness of breath. May cause coughing and difficulties in breathing. Shortness of breath. Wheezing/breathing difficulties. Coughing, chest tightness, feeling of chest pressure.

Ingestion May cause chemical burns in mouth, oesophagus and stomach. May cause chemical burns in mouth and throat. Blood may be vomited There may be bleeding from the mouth and/or nose.

Skin contact Causes severe burns. Blistering may occur. Progressive ulceration will occur if treatment is not immediate

Eye contact May cause serious eye damage. Corneal damage. May cause permanent damage.

SECTION 12: Ecological Information

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product is not identified as a PBT substance

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

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SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	3264
UN No. (IMDG)	3264
UN No. (ICAO)	3264
UN No. (ADN)	3264

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS Nitric Acid 100%, Phosphoric Acid 100%, Orthophosphoric Acid 100%)
Proper shipping name (IMDG)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS Nitric Acid 100%, Phosphoric Acid 100%, Orthophosphoric Acid 100%)
Proper shipping name (ICAO)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS Nitric Acid 100%, Phosphoric Acid 100%, Orthophosphoric Acid 100%)
Proper shipping name (ADN)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS Nitric Acid 100%, Phosphoric Acid 100%, Orthophosphoric Acid 100%)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C1
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels



14.4. Packing group

ADR/RID packing group	I
IMDG packing group	I
ADN packing group	I
ICAO packing group	I

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	1
Emergency Action Code	2X

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Hazard Identification Number 88
(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information Only trained personnel should use this material.

Revision date 23.01.2026

Revision 1

Supersedes date

SDS number 1004

Risk phrases in full R35 Causes severe burns.

Hazard statements in full H272 May intensify fire; oxidiser.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

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.