

NIPAC  
Code: HLN1

## Safety Data Sheet compliant with Regulation (EU) 2020/878

Version 7.1.0  
Creation date : 01/12/22  
Revision: 12/04/23  
Print Date : 12/04/23

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

#### 1.1. Product identifier

Trade name	NIPAC
UFI :	N0P8-J86H-869F-7X7F

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

Use of the product

ACID DETERGENT  
FOOD INDUSTRY  
NIPAC contains a blend of Nitric Acid and Phosphoric Acid.

#### 1.3. Details of the supplier of the safety data sheet

Company identification

Out of hours Emergency Telephone Number +44 (0) 1865 407333  
UK - Holchem Laboratories Ltd. Gateway House, Pilsworth Road,  
Bury, BL9 8RD  
Tel : +44 (0) 1706 222288; e-mail info@holchem.co.uk  
EU - Kersia Deutschland GmbH, Marie-Curie-Straße 23  
53332 Bornheim - Sechtem  
Tel: +49 (0)222 790 820

For information regarding this safety data sheet, please contact :  
regulatory@kersia-group.com

#### 1.4. Emergency telephone number

Emergency phone number

Emergency direct number ( 24 hours a day, 7 days a week ) : +44 1273  
289451

CARECHEM 24  
Tel. +44 1865 407333

For information or to report a poisoning incident contact The National  
Poisons Information Centre:  
+353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week).  
Healthcare Professionals:  
+353 (1) 809 2566 (24 hour service)  
NHS: 111

### SECTION 2: HAZARDS IDENTIFICATION

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### 2.1. Classification of the substance or mixture

The mixture meets the classification criteria provided for under Regulation (EC) No 1272/2008.

Substance corrosive to metals - Category 1	EUH 071: Corrosive to the respiratory tract.
Skin corrosion - Category 1A	H290: May be corrosive to metals.
Serious damage to eyes - Category 1	H314: Causes severe skin burns and eye damage.
Acute toxicity - Category 3 (inhalation)	H318: Causes serious eye damage.
	H331: Toxic if inhaled.

### 2.2. Label elements

Labelling according to 1272/2008/EC Regulation:

Hazard pictograms(s) :



Signal word :  
Danger

Contains : Nitric acid+ Phosphoric Acid

Hazard statement(s) :  
H290: May be corrosive to metals.  
H314: Causes severe skin burns and eye damage.  
H331: Toxic if inhaled.  
EUH 071: Corrosive to the respiratory tract.

Precautionary statement(s) :  
P260: Do not breathe vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection.  
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 + P310: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.  
P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

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P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

### 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable as this involves a mixture.

### 3.2. Mixtures

Chemical nature of the mixture : ACID DETERGENT

Substance(s)	CAS number(s)	EINECS number(s)	index	No registration REACH	Classification according to Regulation (EC) 1272/2008	SCL M-factor ATE	Type
40% <= Nitric acid < 50%	7697-37-2	231-714-2		01-2119487297-23	Ox. Liq. 2 H272 Skin Corr. 1A H314 Met. Corr. 1 H290 Acute Tox. 3 (inhalation) H331 EUH 071	C ≥ 65% Ox. Liq. 3 H272 5% ≤ C < 20% Skin Corr. 1B H314 LC 50 - inhalation - 4h : 2 65 mg/L	(1) (2)
1% <= Phosphoric Acid < 5%	7664-38-2	231-633-2	015-011-00-6		Skin Corr. 1B H314 Met. Corr. 1 H290 Acute Tox. 4 (oral) H302	C ≥ 25% Skin Corr. 1B H314 10% ≤ C < 25% Skin Irrit. 2 H315 Eye Irrit. 2 H319	(1) (2)

#### Type

- (1) : Substance classified as hazardous for health and/or the environment  
(2) : Substance with an exposure limit at the work station.  
Substance of very high concern candidate for the authorisation procedure:  
(3) : Substance considered as PBT (persistent, bioaccumulable, toxic)  
(4) : Substance considered as vPvB (very persistent, very bioaccumulable)  
(5) : Substance considered as carcinogenic category 1A  
(6) : Substance considered as carcinogenic category 1B  
(7) : Substance considered as mutagenic category 1A  
(8) : Substance considered as mutagenic category 1B  
(9) : Substance considered as reprotoxic category 1A  
(10) : Substance considered as reprotoxic category 1B  
(11) : Substance considered as endocrine disrupter  
(12) : Other substance considered hazardous to health or the environment  
(N) : Nanomaterial

Full text of H- and EUH- phrases : see section 16.

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### SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

**General indications:**

Take the contaminated clothes and shoes off immediately. Wash them before wearing them again.  
In case of faintness , get medical advice/attention. Show this safety data sheet to the doctor.

**In the event of inhalation :**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.  
Put into practice respiratory help procedure if needed and get medical advice immediately.

**In the event of contact with the skin :**

Take off immediately all contaminated clothing.  
Wash immediately with plenty of water for 15 minutes at least.  
Immediately call a POISON CENTER or doctor/physician.

**In the event of contact with the eyes :**

Immediately consult an ophthalmologist, even in the absence of apparent damages.  
Remove contact lenses if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER or doctor/physician.

**In the event of ingestion :**

Rinse mouth.  
Do NOT induce vomiting.  
Call a POISON CENTER or doctor/physician.

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

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : Toxic if inhaled.  
Corrosive to the respiratory tract.

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

Treatments : Symptomatic treatment

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

Suitable extinguishing media :

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Foam resisting to alcohol.  
CO<sub>2</sub>, powder, pulverized water

Unsuitable extinguishing media :  
High pressure water jet

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

NIPAC is non-flammable.  
However in case of fire, risk of formation of toxic fumes (nitrogen oxides).

### 5.3. Advice for firefighters

Wear independent respiratory equipment and protective suit.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Keep containers cool by spraying with water if exposed to fire.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel :

Wear suitable protective clothing.  
Evacuate non-essential staff and those not equipped with individual protection apparatus.

#### 6.1.2. For emergency responders :

Evacuate the personnel to a safe location.  
Keep people upwind and away from the location of the flow/leak.  
Use personal protection equipment.

### 6.2. Environmental precautions

Intervention limited to trained staff.  
Do not discharge the product directly to sewer or to environment.  
Take as soon as possible all incompatible materials away.  
Informing the authorities if the product penetrates in the sewers or in the waters of the public domain.

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

Small spillage :

Absorb with an inert, non-combustible absorbent material, such as sand, earth, vermiculite or diatomaceous earth.

Large spillage :

Never return spills in original containers for re-use.  
Keep in suitable, properly labelled and closed containers for disposal.  
Mark out, soak up with an inert absorbant and pump in an emergency tank.

### 6.4. Reference to other sections

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Respect protective measures presented at heading 8.  
Refer to section 13 for the elimination.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing.  
Take off immediately all contaminated clothing.  
Avoid breathing vapours/spray.  
Do not eat, drink or smoke in work area. Avoid projections during use.

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

##### 7.2.1. Storage :

Keep only in the original container.  
Keep container closed.  
Keep in a clean, cool and well-ventilated place away from sources of heat and intense light.  
Store at a temperature not exceeding 40°C.  
The floor of rooms will be impermeable and will form a retention basin so that the liquid cannot spread outside if spilled accidentally.  
Keep away from products sensitive to chlorinated alkalis.

##### 7.2.2. Packaging or wrapping materials :

High density polyethylene recommended.

#### 7.3. Specific end use(s)

No other recommendation.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Exposure limit values :

Substance	CAS number	Country	Type	Value	Unit	Comments	source
Phosphoric Acid	7664-38-2	IRL	OEL Short term	2	mg/m <sup>3</sup>	15 minutes reference period	International limit values for chemical agents
			OEL 8h	1	mg/m <sup>3</sup>		International limit values for chemical agents
Nitric acid	7697-37-2	IRL	OEL Short term	1	ppm	15 minutes reference period	International limit values for chemical agents

#### 8.2. Exposure controls

According to the requirements of Directive 98/24 /EC, the employer is required to conduct a risk assessment and implement appropriate risks management measures.

\* For any situation where the absence of risk is not proven, he must consider the substitution or reduction of risk by improving in priority processes used and collective protection measures. The effectiveness of the solutions

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implemented will be checked by measurement in comparison to the statutory limit values for substances defined in Section 8.1.

\* If the risk remains after these corrective actions, he must always check by routinely measuring compliance with regulatory OEL if they exist in section 8.1 and apply all the individual protective measures given in section 8.2.

\* When formalized risk assessment indicates a low risk to workers' health, control of compliance with regulatory OEL may not be considered and all individual protection measures is not always mandatory.

### 8.2.1. Appropriate engineering controls :

Ensure adequate ventilation.

Apply the necessary technical measures to comply with the professional exposure limit values.

### 8.2.2. Individual protection measures, such as personal protective equipment :

Eye/face protection :

Use safety glasses or facial screen in conformity with the EN 166 standard.



Hand protection :

Use chemical resistant gloves approved to EN 374.

Examples of preferred materials for insulating gloves:

Permeation time  $\geq$  480 min

Natural rubber.

Butyl rubber.

Fluorinated rubber (Viton)

Chloroprene rubber.

PVC

Thickness:  $>$  0.5 mm



Skin protection :

Wear chemical-resistant protective shoes and clothing.

Wear protective clothing conforms to the standards EN 13034 - type 6

In weak spraying, wear boots or half-boots which protect from chemical risk that comply with standard NF EN 13832-2.



Respiratory protection :

At the time of handling leading to vapor formation, wear a half-mask in compliance with the European standard EN 140 or a complete mask with a filter in conformity with the European standard EN 136 (in conformity with the European standard EN 141 or EN 14387) of type:

E: gas and acid vapours.

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NOx: nitrous vapours.

B: Inorganic gases and vapors.

During applications that cause aerosols to form, wear a half-mask in compliance with the European standard EN 140 or a complete mask in conformity with the European standard EN 136 equipped with a filter (in conformity with the European standard EN 143) of the following type:

P3: Particles, solid aerosols and liquids

It is possible to combine the anti-vapor filters and anti-aerosols.



Thermal hazards :  
Not applicable

Health measures :  
Safety shower and eye wash fountain near to workplace.  
After using, wash systematically all personal protective equipment.  
Handle in accordance with good industrial hygiene practices and the safety instructions.

### 8.2.3. Environmental exposure controls :

Do not discharge the product directly to sewer or to environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Colourless to pale yellow
Odour	Characteristic
Odour threshold	Not available
Freezing point	Not available
Melting point	Not applicable
Boiling point	Not available
Flammability	Not available
Lower explosive limit	Not applicable
upper explosive limit	Not applicable
Flash point	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Pure pH (20°C)	0 - 1
pH value at 10g/l (20°C)	1 - 2
kinematic viscosity	Not available
Solubility	Soluble in water in all proportions
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Mass density (20°C)	1.27 g/cm <sup>3</sup>



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Relative density (20°C)	1.27
Vapour density	Not available
Particle characteristics	Not applicable

### 9.2. Other information

Explosive properties	Not applicable
Oxidising properties	Not applicable
Evaporation rate:	Not available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Stable in the recommended storage and handling conditions.

### 10.2. Chemical stability

Stable in the recommended storage and handling conditions.

### 10.3. Possibility of hazardous reactions

Exothermic reactions with alkalis.

Not to mix with sodium hypochlorite (bleach) or another product of bleaching. The mixture which would result from this would cause a violent exothermic reaction, followed by a release of chlorine gas.

### 10.4. Conditions to avoid

Excessive heat (>50°C)

### 10.5. Incompatible materials

Alkalines.  
Certain metals.

### 10.6. Hazardous decomposition products

In contact with certain metals (aluminium, zinc...), release of flammable and/or explosive hydrogen if ignited.

In case of fire, risk of formation of toxic fumes (nitrogen oxides).

These data are given for the concentrated mixture. The use of the mixture under its diluted form must be performed in conformity with data given by the technical data sheet and the technical adviser.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) N°1272/2008

#### Substance-related data:

Acute toxicity  
Nitric acid : LC 50 - inhalation - 4h rat (OECD 403): 2.65 mg/L. - vapour - MSDS supplier  
Phosphoric Acid ( 65% ) : LC 50 769.23 mg/kg. - MSDS supplier

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### Mutagenicity

Nitric acid ( 58% ) : . Not mutagenic - MSDS supplier

### Carcinogenicity

Nitric acid ( 58% ) : . Not carcinogenic - MSDS supplier

### Mix-related data:

#### Acute toxicity

. Not determined for the mixture.

#### Skin corrosion/irritation

Skin corrosivity . The mix is considered to be corrosive for the skin under the criteria of Regulation 1272/2008/EC.

#### Serious damage to eyes/eye irritation

Ocular corrosivity . Causes serious eye damage according to the criteria of Regulation 1272/2008/EC.

#### Respiratory / skin sensitisation

Skin sensitisation . The mixture is not considered as a skin sensitizer according to 1272/2008/EC Regulation.

Respiratory sensitisation . The mixture is not considered as a respiratory sensitizer according to 1272/2008/EC Regulation.

#### Mutagenicity

. The classification criteria are not met given the available data.

#### Carcinogenicity

. The classification criteria are not met given the available data.

#### Reproductive toxicity

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - single exposure

. The classification criteria are not met given the available data.

#### Specific target organ toxicity - repeated exposure

. The classification criteria are not met given the available data.

#### Aspiration hazard

. The classification criteria are not met given the available data.

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

Skin contact : Corrosive : Causes severe burns.

Eye contact : Causes serious eye damage.

Ingestion : Causes severe burns in mouth and digestive tract.

Inhalation : Toxic if inhaled.

Corrosive to the respiratory tract.

## 11.2. Information on other hazards

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11.2.1. Endocrine disrupting properties  
Not concerned

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. à 12.4. Toxicity - Persistence and degradability - Bioaccumulative potential - Mobility in soil

##### Substance-related data:

Acute toxicity  
Nitric acid ( 100% ) : LC 50 - 96h fishes > 100 mg/L. - MSDS supplier

##### Mix-related data:

Acute toxicity  
fishes . No data available.  
daphnia . No data available.  
algae . No data available.

Chronic toxicity  
. No data available.

Degradability  
. The surface agents contained in this mix are in line with the requirements of the Detergent Regulation 648/2004/EC.

Bioaccumulation  
. No data available.

Mobility  
. No data available.

##### Conclusion :

The mixture is not considered to be dangerous for the environment according to 1272/2008/EC Regulation.

#### 12.5. Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

#### 12.6 Endocrine disrupting properties

Not concerned

#### 12.7. Other adverse effects

No additional information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Treatment of the mixture :

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Do not discharge the product directly to sewer or to environment.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

### Packaging treatment :

Rinse thoroughly the packaging with water and treat the effluent like wastes.

Comply with Directive 2008/98/EC of 19/11/2008 amended, relating to waste and to Decision 2000/532/EC (amended ultimately by Decision 2014/955/EC) that establishes a list of hazardous waste that must be taken to an approved centre.

## SECTION 14: TRANSPORT INFORMATION

### ROAD TRANSPORT: Rail/Route (RID/ADR)

14.1 UN no : 3264

14.2 UN proper shipping name :

CORROSIVE LIQUID, ACIDIC, INORGANIC , N.O.S. (Phosphoric Acid + Nitric acid)

14.3 Transport hazard class(es) : 8

14.4 Packing group : II

Hazard identification number : 80

Label : 8



Tunnel code : (E)

14.5 Environmental hazard : No

14.6 Special precautions for user : No information.

Limited Quantity (QL): 1L

### MARITIME TRANSPORT : IMDG

14.1 UN no :3264

14.2 UN proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC , N.O.S. (Phosphoric Acid + Nitric acid)

14.3 Transport hazard class(es) : 8

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14.4 Packing group : II

14.5 Environmental hazard  
Marine pollutant : No

14.6 Special precautions for user : No information.  
EmS number : F-A,S-B

Limited Quantity (QL): 1L

14.7 Maritime transport in bulk according to IMO instruments : Not concerned

### SECTION 15: REGULATORY INFORMATION

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

Regulation (EU) n°528/2012 concerning the making available on the market and use of biocidal products :  
Not concerned

Regulations relating to the hazards from major accidents :  
SEVESO 3 Directive (2012/18/EC) : H2

Regulations relating to the classification, packaging and labelling of substances and mixtures :  
Regulation (EC) 1272/2008 amended.

Waste regulations :  
2008/98/EC Directive amended by 2015/1127/EC Directive - Regulation 1357/2014/EC  
Decision 2014/955/EC which establishes the list of hazardous waste.

Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals : Not concerned

Protection of workers :  
Directive 98/24/EC of 07/04/1998 on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EU) 2019/1021 of 20 June 2019 on persistent organic pollutants : Not applicable

Regulation (EC) 1005/2009 amended on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors:

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Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Regulation (EC) 648/2004 :

In conformity with the regulation in force on detergents: Regulation (EC) N° 648/2004.

Ingredient datasheet for the medical staff is available upon written request.

Contains :

5-15% Phosphates

Comply with national and local legislation.

UN Globally Harmonised System (GHS) on Classification and Labelling of Chemical (GB CLP - SI 2020 No. 1567) and UK REACH (SI 2020 No. 1577)

### 15.2. Chemical safety assessment

This safety data sheet has been drafted taking into account the information from exposure scenarios for the substances making up the mixture.

## SECTION 16: OTHER INFORMATION

The safety data sheet is additional to the technical data sheet but does not replace it. The information given here in is to the best of our knowledge correct and is given in good faith. We must also draw the user's attention on potential risks of the product is used for other purposes for which the product is known.

In no way does it exempt users from being aware of and complying with regulations applicable to their activity. It is their sole responsibility to take all necessary precautions in accordance to the usage of the product they are aware of.

Regulations are only stated in order to help users fulfill the duties involved in the use of the product.

This description should not be considered as exhaustive. It does not exempt users from ensuring if other demands need to be complied with-according to other laws than the ones hereby stated and applicable to holding and usage of the product-demands for which they will remain sole responsibility.

Section(s) modified compared with the previous version :

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

List of H phrases referred to in section 3 :

H314 : Corrosive to the respiratory tract.

H272 : May intensify fire; oxidiser.

H290 : May be corrosive to metals.

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

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H331 : Toxic if inhaled.

Sources of key data used to compile the data sheet :  
MSDS supplier

Historical :

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Cancel and replaces previous version 7.0.1