



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

1.1 Product identifier:

Trade name: Nitric Acid 20% $\leq C < 30\%$ (W/W) HNO₃

Article number: 600019 (Identipack BV)

CAS-number: 7697-37-2

EINECS: 231-714-2

UFI: Not applicable.

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

Application of the substance / the mixture : Laboratory, Research or Fabricage.

1.3 Details of the supplier of the safety data sheet:

Downstreamuser

Identipack B.V.

Broekstraat 4

5721 CT Someren

Netherlands

Tel: (+31) (0)493 - 672277

Fax: (+31) (0)439 - 672268

E-mail : info@identipack.com

1.4 Emergency telephone number:

UK Tel: +44 151 951 3317 - Health and Safety Executive (HSE) Chemicals Regulation Directorate (24/7)

Ireland Tel: +353 1 8092566 - Beaumont Hospital - National Poisons Information Centre (24/7)

(EU Tel: 112)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) nr. 1272/2008:

Skin Corr. 1A: H314

2.2 Label elements:

Labelling according to Regulation (EC) nr. 1272/2008:

The product is classified and labelled according to the CLP regulation.

Hazard pictogram:



GHS05

Signal word: Danger

Hazard-determining components of labelling:

Nitric Acid 20% $\leq C < 30\%$

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313:	Get medical advice/attention.

2.3 Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture made by the following substances:

Dangerous components:

CAS: 7697-37-2
EINECS: 231-714-2
Index: 007-004-00-1



Nitric Acid 20% ≤ C < 30%
Skin Corr. 1A, H314

Additional details:

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information:

Remove immediately any clothing soiled by the product and wash with plenty of water. The rescuer has to be equipped with individual protection.

After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Drink plenty of water and provide fresh air.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture:

Nitrogen Oxides (NO_x).

In case of fire and in the absence of oxygen, the following can be released: Ammonia (NH₃).

5.3 Advice for firefighters:

Protective equipment:

Do not inhale gases in case of fire or combustion.

Additional information:

Keep receptacles cool with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away. Use respiratory protective device against the effects of fumes. Ensure adequate ventilation.

6.2 Environmental precautions:

Dilute with plenty of water after collecting the liquid. Do not allow to enter sewers/surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Collect the liquid with vacuum in a suitable container and absorb the remainder with a porous material (diatomite, acid binders, universal binders, etc). Use neutralising agent. Ensure adequate ventilation. Dispose contaminated material as waste according to Section 13.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles: Provide floor trough without outlet.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

7.3 Specific end use(s):

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

7697-37-2 Nitric Acid 20% \leq C < 30%:

WEL (Great Britain) Short-term value: 2.6 mg/m³, 1 ppm

IOELV (European Union) Short-term value: 2.6 mg/m³, 1 ppm

Additional information: No further relevant information available.

8.2 Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

The glove material has to be impermeable and resistant to the product/the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

Form: Not determined.

Colour: Colourless.

Odour: Characteristic.

Odour threshold: Not determined.

pH-value: Not determined.

Change in condition:

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Flammability (solid, gas): Not applicable.

Ignition temperature:

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.

Upper: Not determined.

Vapour pressure at 20 °C: 4 hPa

Density at 20 °C: Not determined.

Relative density: Not determined.

Verdampingssnelheid Not determined.

Solubility in / Miscibility with:

Water: Fully miscible.

Partition coefficient: (n-octanol/water): Not determined.

Viscosity: Not determined.

9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: See 10.3

10.2 Chemical stability:

Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Nitrogen Oxides (NO_x).

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Primary irritant effect:

Skin corrosion/irritation: Causes severe skin burns.

Serious eye damage/irritation: Causes serious eye damage.

Inhalation:

Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Germ cell mutagenicity: No further relevant information available.

Carcinogenicity: No further relevant information available.

Reproductive toxicity: No further relevant information available.

STOT-single exposure: No further relevant information available.

STOT-repeated exposure: No further relevant information available.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

Ecotoxical effects:

General notes: Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewer system.

Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT- and vPvB-assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects:

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewer system.

Reutilise if possible or contact a waste processor for recycling or safe disposal.

Waste disposal key:

The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste.

Uncleaned packaging:

The containers and packing materials contaminated with dangerous substances or preparations, have the same treatment products.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN-number:

ADR, IMDG, IATA:

UN2031

14.2 UN proper shipping name:

ADR:

2031 NITRIC ACID

IMDG, IATA:

NITRIC ACID



Class:

8 (C1) Corrosive substances.

Label: 8
IMDG, IATA:



Class: 8 Corrosive substances.
Label: 8

14.4 Packing group:
ADR, IMDG, IATA: II

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user: Warning: Corrosive substances.
Danger code (Kemler) 80
EMS-number: F-A, S-B
Segregation groups: Acids

14.7 Transport in bulk according to Annex II of:
MARPOL and the IBC-code: Not applicable.

Transport/Additional information:

ADR:
Limited quantities (LQ): 1L
Excepted quantities (EQ): Code E2
Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 500 ml
Transport category: 2
Tunnel restriction code: E
IMDG:
Limited quantities (LQ): 1L
Excepted quantities (EQ): Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation": UN2031, NITRIC ACID SOLUTION, 8, II

SECTION 15: Regulatory information

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

Directive 2012/18/EU:
Named dangerous substances - ANNEX I: None of the ingredients are listed.
REGULATION (EC) No 1907/2006 ANNEX XVII: Conditions of restriction: 3

Information about limitation of use: -
Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H314 Causes severe skin burns and eye damage.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Sources:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006, REACH, in the latest valid version.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008, CLP, in the latest valid version.

Globally Harmonized System, GHS

ADR2017