

Page: 1

Revised edition no: 0

Date: 4 / 10 / 2012

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NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name : NITRIC ACID PURE 69-72%

Product code : 00223
Identification of the product : Nitric acid

CAS No :7697-37-2 EC No :231-714-2 Annex No :007-004-00-1

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

**Use** : Industrial. For professional use only.

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

Company identification : LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba

400005 Mumbai INDIA

Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

# 1.4. Emergency telephone number

Phone nr : + 91 22 6663 6663 (9:00am - 6:00 pm) [ Office hours ]

# 2. Hazards identification -DSD

#### 2.1. Classification of the substance or mixture

#### Classification EC 67/548 or EC 1999/45

Classification : O; R8 C; R35

#### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314

Physical hazards : Oxidizing liquids - Category 1 - Danger (CLP : Ox. Liq. 1) H271

2.2. Label elements

#### Labelling EC 67/548 or EC 1999/45



Page : 2

Revised edition no : 0

Date : 4 / 10 / 2012

Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 2. Hazards identification -DSD (continued)

Symbol(s)





Symbol(s) : O : Oxidizing

C : Corrosive

R Phrase(s) : R8 : Contact with combustible material may cause fire.

R35 : Causes severe burns.

S Phrase(s) : S1/2 : Keep locked up and out of reach of children.

S23: Do not breathe the gas, fumes, vapours, spray.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice

S36: Wear suitable protective clothing.

S45: In case of accident or if you feel unwell, seek medical advice immediately (

show the label when possible).

Contains : Nitric acid

#### Labelling Regulation EC 1272/2008 (CLP)

**Hazard pictograms** 





Signal words : Danger

**Hazard statements** : H271 : May cause fire or explosion; strong oxidizer.

H314: Causes severe skin burns and eye damage.

**Precautionary statements** 

• **General** : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

• Prevention : P210: Keep away from heat, sparks, open flames or hot surfaces. – No smoking.

P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, spray. P220: Keep away from clothing - combustible materials.

P264: Wash thoroughly after handling.

• **Response** : P371+P380+P375: In case of major fire and large quantities : Evacuate area. Fight

fire remotely due to the risk of explosion.

P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated

clothing. Rinse skin with water/shower.

P306+P360: IF ON CLOTHING: Rinse immediately contaminated clothing and skin

with plenty of water before removing clothes. P363: Wash contaminated clothing before reuse. P370+P378: In case of fire: Use for extinction.



Page: 3

Revised edition no: 0

Date: 4 / 10 / 2012

Supersedes : 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 2. Hazards identification -DSD (continued)

• Storage : P405: Store locked up.

• Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.

Contains : Nitric acid

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

# 3. Composition/information on ingredients

Substance / Preparation : Nitric acid

CAS No :7697-37-2 EC No :231-714-2 Annex No :007-004-00-1

Substance.

 
 Substance name
 Contents
 CAS No
 EC No
 Annex No
 REACH Ref.
 Classification

 Nitric acid
 : 100 %
 7697-37-2
 231-714-2
 007-004-00-1
 --- 0; R8 C; R35

Ox. Liq. 1 \_ H271 Skin Corr. 1A \_ H314

Contains no other components or impurities which will influence the classification of the product.

### 4. First aid measures

#### 4.1. Description of first aid measures

**Inhalation** : Remove to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor.

**Skin contact** : Rinse immediately contaminated clothing and skin with plenty of water before

removing clothes.

IF ON CLOTHING: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or

doctor.

Eye contact : Immediately call a POISON CENTER or doctor. Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue

rinsina.

Ingestion : Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse

mouth.

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

Symptoms relating to use : Causes severe skin burns and eye damage.



Page: 4

Revised edition no: 0

Date: 4 / 10 / 2012

Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 4. First aid measures (continued)

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

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

# 5. Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

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

Flammable class : May cause fire or explosion; strong oxidizer.

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

Thermal decomposition generates: Corrosive vapours.

# 5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment. In case of major fire and large quantities: Evacuate area. Fight

fire remotely due to the risk of explosion.

#### 6. Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

Special precautions : No naked lights. No smoking. May cause fire or explosion; strong oxidizer.

For non-emergency personnel : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

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



Page: 5

Revised edition no: 0

Date: 4 / 10 / 2012

Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 6. Accidental release measures (continued)

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

### 7. Handling and storage

#### 7.1. Precautions for safe handling

**Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during

pregnancy or while nursing. Wash thoroughly after handling. Take any precaution

to avoid mixing with combustibles.

**Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

Proper grounding procedures to avoid static electricity should be followed.

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

Storage : Keep only in the original container in a cool, well ventilated place. Keep container

closed when not in use. Keep in fireproof place.

Storage regulation : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

Combustible material.

7.3. Specific end use(s)

Specific end use(s) : None.

# 8. Exposure controls/personal protection

# 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

Respiratory protection
 Hand protection
 Wear approved mask.
 Wear protective gloves.

Skin protection
 Eye protection
 Wear suitable protective clothing.
 Chemical goggles or face shield.

• Others : When using, do not eat, drink or smoke.

Wear fire, flame resistant, retardant clothing.

#### 8.2. Control parameters



Page : 6

Revised edition no : 0

Date : 4 / 10 / 2012

Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 8. Exposure controls/personal protection (continued)

Occupational Exposure Limits : No data available.

# 9. Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Colour: Colorless to yellowOdour: Suffocating odourOdour threshold: No data available.pH value: No data available.Melting point [°C]: No data available.

Decomposition point [°C] : N/A Critical temperature [°C] : N/A Auto-ignition temperature [°C] : N/A Flammability (solid, gas) : N/A Flash point [°C] : N/A : 122 °C Boiling point [°C] Initial boiling point [°C] : N/A : N/A Final boiling point [°C] : N/A **Evaporation rate** 

Vapour pressure [20°C]: 48 mm Hg @ 200CVapour pressure mm/Hg: 48 mm Hg @ 200C

Vapour density : 2 - 3

Density [g/cm3] : 1,41

Relative density, gas (air=1) : N/A

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Infinitely soluble

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : Acidic. Viscosity at 40°C [mm2/s] : N/A

### 9.2. Other information

Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A

Oxidising properties : May cause fire or explosion; strong oxidizer.



Page : 7
Revised edition no : 0

Date: 4 / 10 / 2012 Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Overheating.

Open flame.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates: Corrosive vapours.

# 11. Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** 

Inhalation
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
 Ingestion
 Based on available data, the classification criteria are not met.

**Corrosion** : Causes severe skin burns and eye damage.

Causes serious eye damage.

Irritation: Based on available data, the classification criteria are not met.Sensitization: Based on available data, the classification criteria are not met.Mutagenicity: Based on available data, the classification criteria are not met.Carcinogenicity: Based on available data, the classification criteria are not met.Toxic for reproduction: Based on available data, the classification criteria are not met.STOT-single exposure: Based on available data, the classification criteria are not met.



Page: 8

Revised edition no: 0

Date: 4 / 10 / 2012

Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 11. Toxicological information (continued)

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

# 12. Ecological information

# 12.1. Toxicity

**Toxicity information** : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

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

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

# 13. Disposal considerations

### 13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Hazardous waste due to potential risk of explosion.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 14. Transport information

# 14.1. Land transport (ADR-RID)



Page : 9

Revised edition no : 0

Date: 4 / 10 / 2012 Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

# 14. Transport information (continued)

Proper shipping name : NITRIC ACID, other than red fuming, with > 20% but < 65% acid nitric

UN N° : 2031 H.I. nr : 80 ADR - Class : 8

**Labelling - Transport** : 8 : Corrosive substance.



ADR - Classification code : C1
ADR - Group : II
ADR - Packing instructions : P001
ADR - Limited Quantity : 1 L

**ADR - Tunnel code** : E : Passage forbidden through tunnels of category E.



#### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : NITRIC ACID, other than red fuming, with > 20% but < 65% acid nitric

UN N° : 2031

**IMO-IMDG - Class or division** : 8 : Corrosive substance.

IMO-IMDG - Packing group: IIIMO- IMDG - Packing instructions: P001IMO-IMDG - Limited quantities: 1 LIMO-IMDG - Marine pollution: NoEMS-Nr: F-A S-B

#### 14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : NITRIC ACID, other than red fuming, with > 20% but < 65% acid nitric

**UN N°** : 2031

IATA - Class or division : 8 : Corrosive substance.

IATA - Packing group : ||

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing : 85

instruction

- Passenger and Cargo - Maximum : 1 L

Quantity/Packing



Page: 10 Revised edition no: 0

Date: 4 / 10 / 2012 Supersedes: 0/0/0

**NITRIC ACID PURE 69-72%** MSDS CAS: 007697-37-2

00223

# 14. Transport information (continued)

: ALLOWED IATA - Cargo only

- Cargo only - Packing instruction : 855 : 30 L - Cargo only - Maximum Quantity/

**Packing** 

**IATA - Limited Quantites** : 0.5 L **ERG-Nr** : 8L

# 15. Regulatory information

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

Safety, health and environmental : Ensure all national/local regulations are observed.

regulations/legislation specific for the

substance or mixture

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions. **REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

**Chemical Safety Assessment** : It has not been carried out.

#### 16. Other information

Revision : Revision - See : \*

: PBT: persistent, bioaccumulative and toxic. Abbreviations and acronyms

vPvB: very persistent and very bioaccumulative

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF Sources of key data used

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3): R8: Contact with combustible material may cause fire.

R35: Causes severe burns.

List of full text of H-statements in

section 3

: H271 : May cause fire or explosion; strong oxidizer. H314: Causes severe skin burns and eye damage.

**Further information** : None.

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

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Page: 11

Revised edition no: 0

Date: 4 / 10 / 2012

Supersedes: 0 / 0 / 0

NITRIC ACID PURE 69-72% MSDS CAS: 007697-37-2

00223

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