

Nitric Acid CAS No 7697-37-2		/-2	MATERIAL SAFETY DATA SHE SDS/MSDS	ET
SECTION 1: Ider	ntification of the su	bstance/mixture a	nd of the company/undertaking	
1.1Product ident Product na		Nitric Acid		
CAS-NO.	:	7697-37-2		
1.2Relevant iden	tified uses of the su	ubstance or mixtur	e and uses advised against	
Identified u	uses :	Laboratory chemic	als, Industrial & for professional use only.	
1.3Details of the Company	supplier of the safe :	Pallav Chemicals & 253, Shiv Shakti Ir	& Solvents Pvt. Ltd ndustrial Estate, Opp Mittal Estate d, Andheri (E), Mumbai - 400059	
Telephone Email	e :	+91 22 4928 4000 sales@pallavchem		
SECTION 2: Haz	ards identification		:00am - 6:00 pm) [Office hours]	
	tion of the substance			
Oxidizing I	ation according to F liquids (Category 3), sion (Category 1A),	H272	1272/2008	
For the ful	I text of the H-Staten	nents mentioned in	this Section, see Section 16.	
	_		8/EEC or 1999/45/EC	
	Dxidising Corrosive	R 8 R35		
For the ful	I text of the R-phrase	es mentioned in this	Section, see Section 16.	
2.2 Label elem	nents			
Labelling Pictogram	according Regulat	ion (EC) No 1272/2	008	
Signal word Hazard sta		Danger		
H272 H314	``	May intensify fire; Causes severe ski	oxidiser. n burns and eye damage.	
			Date	1 of 7

Precautionary statement(s)	
P220	Keep/Store away from clothing/ combustible materials.
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. Immediately
P310	call a POISON CENTER or doctor/ physician.
Supplemental Hazard Statements	none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1	Substances Molecular Weight EC-No. Index-No.		63,01 g/mol 231-714-2 007-004-00-1		
	Hazardous ingredients acc	cord	ing to Regulation (EC)	No 1272/2008	
	Component			Classification	Concentration
	Nitric acid				
				Ox. Liq. 3; Skin Corr. 1A; H272, H314	-
	Hazardous ingredients according to Directive 1999/45/EC				
	Component		-	Classification	Concentration
	Nitric acid				

O, C, R 8 - R35

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- **5.4** Further information Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
 Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
 Evacuate personnel to safe areas.
 For personal protection see section 8.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
- 6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

A part from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	a)	Appearance	Form: liquid Colour: colourless
	b)	Odour	no data available
	c)	Odour Threshold	no data available
	d)	рН	< 1 at 20 °C
	e)	Melting point/freezing point	no data available
	f)	Initial boiling point and boiling range	100 °C at 1.013 hPa
	g)	Flash point	no data available
	h)	Evapouration rate	no data available
	i)	Flammability (solid, gas)	no data available
	j)	Upper/lower flammability or explosive limits	no data available
	k)	Vapour pressure	11 hPa at 20 °C
	I)	Vapour density	no data available
	m)	Relative density	1,4 g/cm3
	n)	Water solubility	completely soluble
	o)	Partition coefficient: n- octanol/water	no data available
	p)	Auto-ignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	The substance or mixture is classified as oxidizing with the category 3.
2	Oth	ner safety information	

9.2 Other safety information no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** no data available
- **10.4 Conditions to avoid** May discolor on exposure to air and light.
- **10.5** Incompatible materials Alkali metals, Organic materials, Acetic anhydride, Acetonitrile, Alcohols, Acrylonitrile
- **10.6 Hazardous decomposition products** Other decomposition products - no data available In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

Skin - rabbit Result: Extremely corrosive and destructive to tissue. (Draize Test)

Serious eye damage/eye irritation no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Reproductive toxicity - rat - Oral Effects on Newborn: Biochemical and metabolic.

Developmental Toxicity - rat - Oral Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Additional Information

RTECS: Not available

Large doses may cause: conversion of hemoglobin to methemoglobin, producing cyanosis; marked fall in blood pressure, leading to collapse, coma, and possibly death., Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Liver - Irregularities - Based on Human Evidence

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 - Asterias rubens - 100 - 330 mg/l - 48 h

- **12.2 Persistence and degradability** no data available
- **12.3 Bioaccumulative potential** no data available
- **12.4 Mobility in soil** no data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

May be harmful to aquatic organisms due to the shift of the pH.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1	UN number ADR/RID: 2031	IMDG: 2031	IATA: 2031
14.2	UN proper shipping nameADR/RID:NITRIC ACIDIMDG:NITRIC ACIDIATA:Nitric acidPassenger Aircraft: Not permitted for	or transport	
14.3	Transport hazard class(es) ADR/RID: 8 (5.1)	IMDG: 8 (5.1)	IATA: 8 (5.1)
14.4	Packaging group ADR/RID: II	IMDG: II	IATA: II
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user no data available		

SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
Ox. Liq.	Oxidizing liquids
Skin Corr.	Skin corrosion

Full text of R-phrases referred to under sections 2 and 3

С	Corrosive
0	Oxidising
R 8	Contact with combustible material may cause fire.
R35	Causes severe burns.

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.