NITRIC ACID 8M (8N) STANDARDIZED SOLUTION TRACEABLE TO NIST MSDS

CAS-No.: MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the subs	tance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
	:
Product code	: R210E
1.2. Relevant identified uses of the	ne substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	: Industrial
	For professional use only
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	safatu data shoat
	Salely uala Sileel
Labogens Fine Chem Industries 1st Floor, Above Bank of India, Guru Vi	har Rahon Road
Ludhiana Pb. (141007)	
+91 9316777775, +91 7707855700	
sales@labogens.com - www.Labogen	is.com
1.4. Emergency telephone number	er
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: Hazards identification	

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

C; R35 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC

Hazard symbols



R-phrases S-phrases C - Corrosive

- : R35 Causes severe burns
- : S24 Avoid contact with skin

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer)

S35 - This material and its container must be disposed of in a safe way S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S59 - Refer to manufacturer/supplier for information on recovery/recycling

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitric acid	(CAS-No.) 7697-37- 2 (EC-No.) 231-714-2 (EC Index-No.) 007- 004-00-1	50 - 75	O; R8 C; R35	Ox. Liq. 1, H271 Skin Corr. 1A, H314
Water	(CAS-No.) 7732-18- 5 (EC-No.) 231-791-2	50 - 75	Not classified	Not classified

Full text of R- and H-statements: see section 16

SECTIO	N 4: First aid measures
4.1.	Description of first aid measures

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

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First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
4.3. Indication of any immediate m	edical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from t	he substance or mixture
No additional information available	
5.3. Advice for firefighters	
5.3. Advice for firefighters Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measu	
	ive equipment and emergency procedures
6.1.1. For non-emergency personne	
Emergency procedures	: Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for cont	ainment and cleaning up
Methods for cleaning up	: Clean contaminated surfaces with an excess of water.
6.4. Reference to other sections No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes.
Hygiene measures	 Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persor	al protection
8.1. Control parameters	
No additional information available	

NITRIC ACID 8M (8N) STANDARDIZED SOLUTION traceable to NIST Safety Data Sheet

8.2. Exposure controls		
Hand protection	: Protective gloves	
Eye protection	: Chemical goggles or safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: Wear respiratory protection.	
SECTION 9: Physical and chemical properties		
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid	
Colour	: Clear Colorless.	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Flammability (solid, gas)	: No data available	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: No data available	

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition produ	ucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Not classified
Irritation	: Not classified
Corrosivity	: Causes severe burns.
Sensitisation	: Not classified
Repeated dose toxicity	: Not classified
Carcinogenicity	: Not classified
Mutagenicity	: Not classified
Toxicity for reproduction	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB asses	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 2031
UN-No. (IMDG)	: 2031
UN-No. (IATA)	: 2031
UN-No. (ADN)	: 2031
UN-No. (RID)	: 2031
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: NITRIC ACID
Proper Shipping Name (IMDG)	: NITRIC ACID
Proper Shipping Name (IATA)	: Nitric acid
Proper Shipping Name (ADN)	: NITRIC ACID
Proper Shipping Name (RID)	: NITRIC ACID
Transport document description (ADR)	: UN 2031 NITRIC ACID, 8, II, (E)
Transport document description (IMDG)	: UN 2031 NITRIC ACID, 8, II
Transport document description (IATA)	: UN 2031 Nitric acid, 8, II
Transport document description (ADN)	: UN 2031 NITRIC ACID, 8, II
Transport document description (RID)	: UN 2031 NITRIC ACID, 8, II
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8
	8
IMDG	
Transport hazard class(es) (IMDG)	: 8
Danger labels (IMDG)	: 8
	8

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ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
	8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
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	8
	¥7
RID	
Transport hazard class(es) (RID)	: 8
Danger labels (RID)	: 8
	8
14.4. Packing group	
Packing group (ADR)	: 11
Packing group (IMDG)	: 11
Packing group (IATA)	: 11
Packing group (ADN)	: 11
Packing group (RID)	: 11
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: C1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Special packing provisions (ADR)	: PP81, B15
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container	: T8
instructions (ADR)	
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
	. LTUN

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Vehice for tank carriage: ATTransport category (ADR): 2Hazard identification number (Kemier No.): 80Orange plates: 80ZO31: 2031Tunnel restriction code (ADR): EEAC code: 2PAPP code: B- Transport by sea: PoolPacking instructions (IMDG): P001Special packing provisions (IMDG): B16 202IBC specing instructions (IMDG): B16 202IBC specing instructions (IMDG): TP2Tank instructions (IMDG): S-BStowgec ategory (IMDG): S-GStowgec ategory (IMDG): S-GStowgec ategory (IMDG): S-GStowgec ategory (IMDG): Colurless liquid Oxidant may cause fire in contact with organic materials such as moti metals. Causes severe burns to skin, eyes and mucous membranes.MFAG-No: 157- Att transport:PCA Excepted quantities (IATA): ForbiddenPCA Limited quantities (IATA): ForbiddenPCA ategories (IATA): ForbiddenPCA ategories (IATA): ForbiddenCAO max net quantity: A212ERG (IATA): S-GSpecial provisions (IATA): S-GPCA ategories (IATA): S-DPCA ategories (IATA): ForbiddenPCA interd quantities (IATA): ForbiddenPCA ategories (IATA): S-DPCA ategories (IATA): S-DPCA ategories (IATA): S-DPCA ategories (IATA): S-DPCA ategories (IATA):		
Hazar dientification number (Kemler No.) it 80 Orange plates it 80 Change plates	Vehicle for tank carriage	: AT
Crange plates : 80 2031	Transport category (ADR)	: 2
OU DU Turnel restriction code (ADR) : E EAC code : 2P APP code : Paransport by sea Packing instructions (MDG) : P001 Special provisions (MDG) : P01 Special provisions (MDG) : P01 IBC packing instructions (MDG) : P181 IBC packing instructions (MDG) : P181 IBC packing instructions (MDG) : P15 Tark special provisions (MDG) : P12 EmS-No. (Fire) : F-A EmS-No. (Fire) : S-B Stowage category (MDG) : D Segregation (MDG) : S06, SG16, SG17, SG19 Properties and observations (MDG) : Colourless liquid Oxidant; may cause fire in contact with organic materials such as wood, cotton or straw, evolving highly toxic gases (brown fumes). Highly corosive to most metals. Causes severe burns to skin, eys and mucous membranes. MFAG-No : 157 - Air transport : Forbidden PCA Limited quantities (AT	Hazard identification number (Kemler No.)	: 80
EAC code: 2PAPP code: B- Transport by seaPeaking instructions (IMDG): P001Special packing provisions (IMDG): EBC02IBC special provisions (IMDG): BEC02IBC special provisions (IMDG): BEC02Tank special provisions (IMDG): TP2EmS-No. (Fire): F-AEmS-No. (Spillage): S-BStowage category (IMDG): DSegregation (IMDG): SGR, SG17, SG19Propertiles and observations (IMDG): Colourtess (Igud) coviant: may cause fire in contact with organic materials such as wood cotton or shraw, evolving highly toxic gases (brown fumes). Highly corresive to most metals. Causes severe burns to skin, eyes and mucous membranes.MFAG-No: 157- Ari transport:PCA Excepted quantities (IATA): ForbiddenPCA Limited quantity max net quantity: ForbiddenPCA Limited quantities (IATA): ForbiddenPCA packing instructions (IATA): ForbiddenPCA packing instructions (IATA): ForbiddenPCA packing instructions (IATA): Set5CAO packing instructions (IATA): Set5CAO packing instructions (IATA): Set5CAO packing instructions (IATA): ColiLimited quantities (ADN): C1Limited quantities	Orange plates	
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		: T8

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Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE6
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Ox. Liq. 1	Oxidising Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H271	May cause fire or explosion; strong oxidiser.
H314	Causes severe skin burns and eye damage.
R35	Causes severe burns
R8	Contact with combustible material may cause fire
С	Corrosive
0	Oxidising

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product