

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 25-01-2023 Version: 1.0

SECTION 1: Identification of the subst	ance/mixture and of the company/undertaking		
1.1. Product identifier			
Product form Trade name Product code	 Mixture MULTI-ELEMENT STANDARD SOLUTION FOR ICP 20 components; 10mg/l each of Ce; Dy; Er; Eu; Ga; Gd; Ho, In, La; Lu; Nd; Pr; Sc; Sm; Tb; Th; Tm; U; Y; Yb In 2% HNO3 1165N 		
Type of product	: Solution		
1.2. Relevant identified uses of the substant	nce or mixture and uses advised against		
1.2.1. Relevant identified uses			
Use of the substance/mixture	: Laboratory chemicals		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of the safety dat	ta sheet		
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com			
1.4. Emergency telephone number			
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)		
SECTION 2: Hazards identification 2.1. Classification of the substance or mixt			
Classification according to Regulation (EC) No. Skin corrosion/irritation, Category 1, Sub-Category 7 Full text of H- and EUH-statements: see section 16			
Adverse physicochemical, human health and en Causes severe skin burns and eye damage.	vironmental effects		
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272 Hazard pictograms (CLP)	/2008 [CLP] :		
Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	 GHS05 Danger H314 - Causes severe skin burns and eye damage. P280 - Wear protective clothing, eye protection, face protection, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a doctor. 		

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2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
NITRIC ACID 69%	CAS-No.: 7697-37-2 EC-No.: 231-714-2 EC Index-No.: 007-004-00-1	2	Ox. Liq. 3, H272 Skin Corr. 1, H314

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

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	 Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	: Burns. : Serious damage to eyes. : Burns.

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

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SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipm	nent and emergency procedures		
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.		
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".		
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment a	nd cleaning up		
Methods for cleaning up Other information	Take up liquid spill into absorbent material.Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other sections			

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
7.3. Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

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8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses

8.2.2.2. Skin protection

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point	 Liquid Clear liquid. Colourless. Odourless. No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.008 g/cm³ at 20°C
Solubility	: Water: Miscible
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosive properties Oxidising properties Explosive limits No data available
No data available
No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects		
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation) Skin corrosion/irritation	:	Not classified Not classified Not classified Causes severe skin burns.
NITRIC ACID 69% (7697-37-2)		
рН		< 1 at 20°C
Serious eye damage/irritation	:	Assumed to cause serious eye damage
NITRIC ACID 69% (7697-37-2)		
рН		< 1 at 20°C
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short–term (acute)	Before neutralisation, the product may represent a danger to aquatic organisms.Not classified
Hazardous to the aquatic environment, long–term (chronic)	: Not classified
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
NITRIC ACID 69% (7697-37-2)	
Partition coefficient n-octanol/water (Log Pow)	-2.3 (OECD 107: Shake Flask Method)
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	t
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RID	
14.1 UN number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN)	: UN 3264 : UN 3264 : UN 3264 : UN 3264 : UN 3264
UN-No. (RID)	: UN 3264
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Proper Shipping Name (ADR)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, inorganic, n.o.s.
Proper Shipping Name (ADN)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (RID)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport document description (ADR)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (MULTI ELEMENT
	STANDARD SOLUTION FOR ICP 20 components 10 mg/l), 8, II, (E)
Transport document description (IMDG)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, II

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according to Regulation (EC) No	1007/0006 (DEACL	I) with its smandmant Da	aulatian (EU) 2015/020
according to Regulation (EC) No	. 1907/2000 (REACE	n with its amenument Re	uulalion (EU) 2015/650

Transport document description (IATA)	: UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (MULTI ELEMENT STANDARD SOLUTION FOR ICP 20 components;10 mg/l), 8, II
Transport document description (ADN)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, II
Transport document description (RID)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, II

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) Danger labels (ADR)



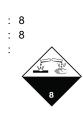
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IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)

IATA Transport hazard class(es) (IATA)

Danger labels (IATA)



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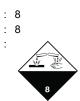
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ADN

Transport hazard class(es) (ADN) Danger labels (ADN)

RID

Transport hazard class(es) (RID) Danger labels (RID)



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14.4. Packing group

Packing group (ADR)	
Packing group (IMDG)	
Packing group (IATA)	
Packing group (ADN)	
Packing group (RID)	

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	EN (English)	8/11
Special provisions (ADN)	: 274	
Classification code (ADN)	: C1	
Inland waterway transport		
ERG code (IATA)	: 8L	
Special provisions (IATA)	: A3, A803	
CAO max net quantity (IATA)	: 30L · A3 A803	
CAO packing instructions (IATA)	: 855	
PCA max net quantity (IATA)	: 1L	
PCA packing instructions (IATA)	: 851	
PCA limited quantity max net quantity (IATA)	: 0.5L	
PCA Limited quantities (IATA)	: Y840	
PCA Excepted quantities (IATA)	: E2	
Air transport		
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.	
Segregation (IMDG)	: SW2 : SGG1, SG36, SG49	
Stowage category (IMDG) Stowage and handling (IMDG)	: SW2	
EmS-No. (Spillage) Stowage category (IMDG)	: S-В : В	
EmS-No. (Fire)	: F-A : S-B	
Tank special provisions (IMDG)	: TP2, TP27	
Tank instructions (IMDG)	: T11	
IBC packing instructions (IMDG)	: IBC02	
Packing instructions (IMDG)	: P001	
Excepted quantities (IMDG)	: E2	
Limited quantities (IMDG)	: 1L	
Special provisions (IMDG)	: 274	
Transport by sea		
EAC code	2X	
Tunnel restriction code (ADR)	: E	
	3264	
Orange plates	80	
Hazard identification number (Kemler No.)	: 80	
Transport category (ADR)	: 2	
Vehicle for tank carriage	: AT	
Tank special provisions (ADR)	: TU42	
Tank code (ADR)	: L4BN	
(ADR)		
	: TP2, TP27	
Portable tank and bulk container instructions (ADR)	: T11	
Mixed packing provisions (ADR)	: MP15	
Packing instructions (ADR)	: P001, IBC02	
Excepted quantities (ADR)	: E2	
Limited quantities (ADR)	: 11	
Special provisions (ADR)	: 274	
Classification code (ADR)	: C1	
Overland transport		
14.6. Special precautions for user		
Other information	: No supplementary information available	
Marine pollutant	: No	
Dangerous for the environment	: No	
14.5. Environmental hazards		
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Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Number of blue cones/lights (ADN)	: 1 L : E2 : T : PP, EP : 0
Rail transportClassification code (RID)Special provisions (RID)Limited quantities (RID)Excepted quantities (RID)Packing instructions (RID)Mixed packing provisions (RID)Portable tank and bulk container instructions (RID)Portable tank and bulk container special provisions	
(RID) Tank codes for RID tanks (RID) Special provisions for RID tanks (RID) Transport category (RID) Colis express (express parcels) (RID) Hazard identification number (RID)	: L4BN : TU42 : 2 : CE6 : 80

14.7. Transport in bulk according to Annex II of Marpol 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

REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

PIC Regulation (Prior Informed Consent)

Contains no substance subject to 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.

POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on drug precursors)

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15.1.2. National regulations

Germany

Employment restrictions Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG). WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	 None of the components are listed
Denmark Danish National Regulations Switzerland Storage class (LK)	: Young people below the age of 18 years are not allowed to use the product : LK 8 - Corrosive materials
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level

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Abbreviations and acronyms:	
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
H272	May intensify fire; oxidiser.
H314	Causes severe skin burns and eye damage.
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1	Skin corrosion/irritation, Category 1

Safety Data Sheet (SDS), EU

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.