NICKEL (NI) ICP STANDARD SOLUTION 1 GM/L IN DILUTE HNO3 TRACEABLE TO NIST MSDS



CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1. Product identifier			
Product form	: Mixture		
	:		
Product code	: I141N		
1.2. Relevant identified uses	of the substance or mixture and uses advised against		
1.2.1. Relevant identified uses			
Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances		
1.2.2. Uses advised against			
No additional information available			
1.3. Details of the supplier of	the safety data sheet		
SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E)			
401208 Mumbai - INDIA			

UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in_www.spanlab.in

SECTION 2: Hazards identification

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Sensitisation — Skin,	H317
category 1 Carcinogenicity	H350i
(inhalation) Category 1B Reproductive toxicity,	H360D
Category 1A Specific target organ	H373
toxicity — Repeated	11070
exposure, Category 2 Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of classification categories and H statements : see section 16

Safety Data Sheet

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) N	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H350i - May cause cancer by inhalation H360D - May damage the unborn child H373 - May cause damage to organs through prolonged or repeated exposure H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (CLP)	 P201 - Obtain special instructions before use P273 - Avoid release to the environment 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 P308+P313 - IF exposed or concerned: Get medical advice/attention

2.3. Other hazards

SECTION 2. Compositio

No additional information available

SECTION 5. Composition/information on ingredients			
3.1.	Substance		
Not app	licable		

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS No) 7732-18-5 (EC no) 231-791-2	75 - 99	Not classified
Nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2 (EC index no) 007-004-00-1	1 - 5	Ox. Liq. 1, H271 Skin Corr. 1A, H314

Safety Data Sheet

	(CAS No) 7440-02-0 (EC no) 231-111-4 (EC index no) 028-002-00-7	0.01 - 1	STOT RE 1, H372 Carc. 2, H351 Skin Sens. 1, H317 Aquatic Chronic 3, H412
--	---	----------	---

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Get medical advice/attention.
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
4.3. Indication of any immediate med	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective	equipment and emergency procedures
	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
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 contain	ment and cleaning up
	: On land, sweep or shovel into suitable containers. Collect spillage.

Safety Data Sheet

6.4.	Reference to other sections		
No add	litional information available		
SECTI	ON 7: Handling and storage		
7.1.	Precautions for safe handling		
Precau	tions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.	
Hygien	e 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, incl	luding any incompatibilities	
Storage	e conditions	: Store in a well-ventilated place. Keep container tightly closed.	
7.3.	Specific end use(s)		
No additional information available			
SECTI	ON 8: Exposure controls/personal	protection	
0.4	O sustant a survey of surv		
8.1.	Control parameters		
No odd	No additional information available		

No additional information available

8.2. Exposure	e controls
---------------	------------

Skin and body protection

: Wear suitable protective clothing

SECTION 9: Physical and chemical pro	perties
9.1. Information on basic physical	and chemical properties
Physical state	: Liquid
Colour	: Clear green.
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

Safety Data Sheet

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

Oxidising properties		
Explosive limits	: No data available	
9.2. Other information		
No additional information available		
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	S	
No additional information available		
10.4. Conditions to avoid		
No additional information available		
10.5. Incompatible materials		
No additional information available		
10.6. Hazardous decomposition produ	10.6. Hazardous decomposition products	
No additional information available		
SECTION 11: Toxicological information		
11.1. Information on toxicological effe	cts	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: May cause cancer by inhalation.	
Reproductive toxicity	: May damage the unborn child.	

Safety Data Sheet

Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: 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

12.5. Results of PBT and vPvB assessment

No additional information available

12.6.	Other adverse effects
No addi	tional information available
SECTIO	DN 13: Disposal considerations
13.1.	Waste treatment methods
No addi	tional information available

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: 3264
UN-No. (IMDG)	: 3264
UN-No.(IATA)	: 3264
UN-No.(ADN)	: Not regulated
UN-No. (RID)	: Not regulated

Safety Data Sheet

14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: CORROSIVE LIQUID, ACIDI		
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDI		
Proper Shipping Name (IATA)	: CORROSIVE LIQUID, ACIDI	J, INORGANIC, N.O.S.	
Proper Shipping Name (ADN)	: Not regulated		
Proper Shipping Name (RID)	: Not regulated		
Transport document description (ADR)		D, ACIDIC, INORGANIC, N.O.S., 8, III, (E)	
Transport document description (IMDG)	: UN 3264 CORROSIVE LIQU POLLUTANT	D, ACIDIC, INORGANIC, N.O.S., 8, III, MAR	INE
Transport document description (IATA)		D, ACIDIC, INORGANIC, N.O.S., 8, III	
14.3. Transport hazard class(es)			
ADR			
Transport hazard class(es) (ADR)	: 8		
Danger labels (ADR)	: 8		
	â		
	8		
	` V		
IMDG			
IMDG Transport hazard class(es) (IMDG)	: 8		
Danger labels (IMDG)	: 8		
	· · · · · · · · · · · · · · · · · · ·		
	8		
	\mathbf{V}		
1474			
IATA	· Q		
Transport hazard class(es) (IATA)	: 8		
Hazard labels (IATA)	: 8		
	8		
	` V		
ADN	· Not regulated		
Transport hazard class(es) (ADN)	: Not regulated		
RID			
	· Not regulated		
Transport hazard class(es) (RID)	: Not regulated		
14.4. Packing group			
Packing group (ADR)	: 111		
Packing group (IMDG)	: 111		
Packing group (IATA)	: 111		
Packing group (ADN)	: Not regulated		
Packing group (RID)	: Not regulated		
www.spanlab.in	Version: 1.0	10/10/2016	7/10

Safety Data Sheet

14.5. Environmental hazards		
Dangerous for the environment : No		
Marine pollutant	: Yes (IMDG only)	
Other information	: No supplementary information available	

14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: C1
Special provision (ADR)	: 274
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container	: T7
instructions (ADR)	
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages	: V12
(ADR)	
Hazard identification number (Kemler No.)	: 80
Orange plates	80
	3264
Tunnel restriction code (ADR)	: E
EAC code	: 2X
APP code	: B
- Transport by sea	
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
MFAG-No	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
www.spanlab.in	Version: 1.0

Safety Data Sheet

CAO packing instructions (IATA)	:	856
CAO max net quantity (IATA)	:	60L
Special provision (IATA)	:	A3
ERG code (IATA)	:	8L

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

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 substances with Annex XVII restrictions Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

15.1.2. National regulations

Germany AwSV/VwVwS Annex reference : Water hazard class (WGK) 3, strongly 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. BImSchV (Hazardous Incident Ordinance) Denmark : Young people below the age of 18 years are not allowed to use the product

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Safety Data Sheet

Full text of H- and EUH-phrases:

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 1B	Carcinogenicity (inhalation) Category 1B
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Ox. Liq. 1	Oxidising Liquids, Category 1
Repr. 1A	Reproductive toxicity, Category 1A
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H271	May cause fire or explosion; strong oxidiser
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H350i	May cause cancer by inhalation
H351	Suspected of causing cancer
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

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