

### CAS-No.: MSDS

### **MATERIAL SAFETY DATA SHEET (MSDS)**

SECTION 1: Identification of the substa	ince/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixture	
Product code	: : A360N	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
<b>1.2.1.</b> Relevant identified uses Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances	
<b>1.2.2. Uses advised against</b> No additional information available		
1.3. Details of the supplier of the sa	afety data sheet	
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Co 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie	9	
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	e or mixture	
Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Skin corrosion/irritation, H315 Category 2 Serious eye damage/eye H319 irritation, Category 2		

Full text of hazard classes and H-statements : see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

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#### 2.2. Label elements

Labolling according	to Population		1272/2009 1	
Labelling according	to Regulation	(EC) NO.	12/2/2000	ULP

Labelling according to Regulation (i	
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 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 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
AMMONIUM - METAVANADATE 98%	(CAS-No.) 7803-55-6	0.01 - 1	Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Oral), H301 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335

Full text of H-statements: see section 16

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SECTION 4: First aid measures
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4.1. Description of first aid measures	S
First-aid measures after inhalation	: 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 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 e	effects, both acute and delayed
Symptoms/effects after skin contact	: Causes skin irritation.
4.3. Indication of any immediate med	dical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	e 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 measure	S
6.1. Personal precautions, protective	s e equipment and emergency procedures
6.1.Personal precautions, protective6.1.1.For non-emergency personnel	e equipment and emergency procedures
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<ul> <li>6.1. Personal precautions, protective</li> <li>6.1.1. For non-emergency personnel</li> <li>Emergency procedures</li> <li>6.1.2. For emergency responders</li> </ul>	e equipment and emergency procedures : Evacuate unnecessary personnel.
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### 7.3. Specific end use(s)

### No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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	: [In case of inadequate ventilation] wear respiratory protection.
<b>SECTION 9: Physical and chemical prop</b>	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Colour	: Yellow liquid.
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
Density Solubility	: 1.017 g/cm³ : No data available

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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 add	itional information available	
SECTIO	ON 10: Stability and reactivity	
SECTI	on to. Stability and reactivity	
10.1.	Reactivity	
No add	itional information available	
110 444		
10.2.	Chemical stability	
Stable	under normal conditions.	
10.3.	Possibility of hazardous reaction	IS
No add	itional information available	
10.4.	Conditions to avoid	
Direct s	unlight. Air contact.	
	g	
10.5.	Incompatible materials	
No add	itional information available	
110 444		
10.6.	Hazardous decomposition produ	icts
No add	itional information available	
SECTION	ON 11: Toxicological information	
11.1.	Information on toxicological effe	unte
Acute to	oxicity	: Not classified
Skin co	rrosion/irritation	: Causes skin irritation.
	nosion/initation	

Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	<ul><li>Causes serious eye irritation.</li><li>Not classified</li><li>Not classified</li><li>Not classified</li></ul>
Reproductive toxicity STOT-single exposure	: Not classified : Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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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 asse	essment
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	
14.1. UN number	
UN-No. (ADR)	: 3264
UN-No. (IMDG)	: 3264
UN-No. (IATA)	: 3264
UN-No. (ADN)	: 3264
UN-No. (RID)	: 3264
14.2. UN proper shipping name	
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., 8, III, (E)

Transport document description (IMDG)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, MARINE
Transport document description (IATA)	POLLUTANT : UN 3264 Corrosive liquid, acidic, inorganic, n.o.s., 8, III
Transport document description (ADN)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III
Transport document description (RID)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 8 : 8
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 8
Hazard labels (IATA)	: 8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
RID	
Transport hazard class(es) (RID) Danger labels (RID)	: 8 : 8

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Packing instructions (ADR)

Mixed packing provisions (ADR)

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14.4. Packing group				
Packing group (ADR)	: 111			
Packing group (IMDG)	: 111			
Packing group (IATA)	: 111			
Packing group (ADN)	: 111			
Packing group (RID)	: 111			
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			
Classification code (ADR) Special provisions (ADR)	: C1 : 274			
	-			

: P001, IBC03, LP01, R001

: MP19

Mineu packing provisions (ADIX)	•	
Portable tank and bulk container instructions (ADR)	:	Τ7
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 (ADR)	:	V12
Hazard identification number (Kemler No.)	:	80
Orange plates	:	80
		3264
Tunnel restriction code (ADR)	:	E
EAC code	:	2X
APP code	:	В
- Transport by sea		
Special provisions (IMDG)	:	223, 274
Packing instructions (IMDG)	:	P001, LP01
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	Т7
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
Properties and observations (IMDG)	:	Causes burns to skin, eyes and mucous membranes.
MFAG-No	:	154

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#### - Air transport

- Air transport		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y841
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	852
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	856
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3, A803
ERG code (IATA)	:	8L
- Inland waterway transport		
Classification code (ADN)	:	C1
Special provisions (ADN)	:	274
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	0
- Rail transport		
Classification code (RID)	:	C1
Special provisions (RID)	:	274
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	Τ7
Portable tank and bulk container special provisions (RID)	:	TP1, TP28
Tank codes for RID tanks (RID)	:	L4BN
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Colis express (express parcels) (RID)	:	CE8
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

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#### 15.1.2. National regulations

Germany	
Reference to AwSV	: Water hazard class (WGK) 3, severe hazard 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 H- and EUH-statements:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2		
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
Ox. Liq. 1     Oxidising Liquids, Category 1       Skin Corr. 1A     Skin corrosion/irritation, Category 1A			
		Skin Irrit. 2 Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation		
H271	H301 Toxic if swallowed.		
H301			
H314			
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H330	Fatal if inhaled.		
H335	May cause respiratory irritation.		

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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