## ALUMINIUM (AL) ICP STANDARD SOLUTION 10 GM/L IN DILUTE HNO3 TRACEABLE TO NIST MSDS



## CAS No: MSDS

## MATERIAL SAFETY DATA SHEET (MSDS)

.1. Product identifier	
Product form	: Mixture
	:
Product code	: I200N
.2. Relevant identified u	uses of the substance or mixture and uses advised against
.2.1. Relevant identified u	uses
Jse of the substance/mixture	: Laboratory chemicals, Manufacture of substances
.2.2. Uses advised agains	st
lo additional information avail	lable
.3. Details of the suppli	ier of the safety data sheet

#### **SECTION 2: Hazards identification**

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2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, H314 Category 1B

Full text of classification categories 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

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

Hazard	pictograms	(CLP)
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: Danger

Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)

: H314 - Causes severe skin burns and eye damage

: 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 P310 - Immediately call a POISON CENTER or doctor/physician

#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substance		
Not applicable		

### 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
ALUMINIUM NITRATE AR (NONAHYDRATE) 98.5%	(CAS No) 7784-27-2	15 - 25	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

Full text of H-phrases: see section 16

SECTION 4: First aid measures			
4.1. Description of first aid measure	es		
First-aid measures after inhalation	: Assure fresh air breathin at rest in a position com	g. If breathing is difficult, remove victim to fr ortable for breathing.	esh air and keep
First-aid measures after skin contact	: Wash with plenty of soap medical advice/attention	and water. Wash contaminated clothing be	fore reuse. Get
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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	l effects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
4.3. Indication of any immediate m	edical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Foam. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from t	he 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	res
6.1. Personal precautions, protecti	ive 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 cont	ainment and cleaning up
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. <b>Precautions for safe handling</b>	
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours.
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	cluding 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/person	al protection
8.1. Control parameters	
No additional information available	

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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
<b>SECTION 9: Physical and chemical prop</b>	erties
9.1. Information on basic physical a	
Physical state	: Liquid
Colour	: Clear colourless.
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

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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.	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ns
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 prod	lucts
No additional information available	
SECTION 11: Toxicological information	
	ects
11.1. Information on toxicological eff	
	ects : Not classified
11.1. Information on toxicological eff	
<b>11.1. Information on toxicological eff</b> Acute toxicity	: Not classified
11.1.       Information on toxicological eff         Acute toxicity         Skin corrosion/irritation	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> </ul>
<b>11.1.</b> Information on toxicological eff         Acute toxicity         Skin corrosion/irritation         Serious eye damage/irritation	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> <li>Serious eye damage, category 1, implicit</li> </ul>
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<b>11.1.</b> Information on toxicological eff         Acute toxicity         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitisation	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> <li>Serious eye damage, category 1, implicit</li> <li>Not classified</li> </ul>
<b>11.1.</b> Information on toxicological eff         Acute toxicity         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitisation         Germ cell mutagenicity	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> <li>Serious eye damage, category 1, implicit</li> <li>Not classified</li> <li>Not classified</li> </ul>
<b>11.1.</b> Information on toxicological eff         Acute toxicity         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitisation         Germ cell mutagenicity         Carcinogenicity	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> <li>Serious eye damage, category 1, implicit</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
<b>11.1.</b> Information on toxicological eff         Acute toxicity         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitisation         Germ cell mutagenicity         Carcinogenicity         Reproductive toxicity	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> <li>Serious eye damage, category 1, implicit</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
<b>11.1.</b> Information on toxicological eff         Acute toxicity         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitisation         Germ cell mutagenicity         Carcinogenicity         Reproductive toxicity         Specific target organ toxicity (single	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> <li>Serious eye damage, category 1, implicit</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
<b>11.1.</b> Information on toxicological eff         Acute toxicity         Skin corrosion/irritation         Serious eye damage/irritation         Respiratory or skin sensitisation         Germ cell mutagenicity         Carcinogenicity         Reproductive toxicity	<ul> <li>Not classified</li> <li>Causes severe skin burns and eye damage.</li> <li>Serious eye damage, category 1, implicit</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
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### **SECTION 12: Ecological information**

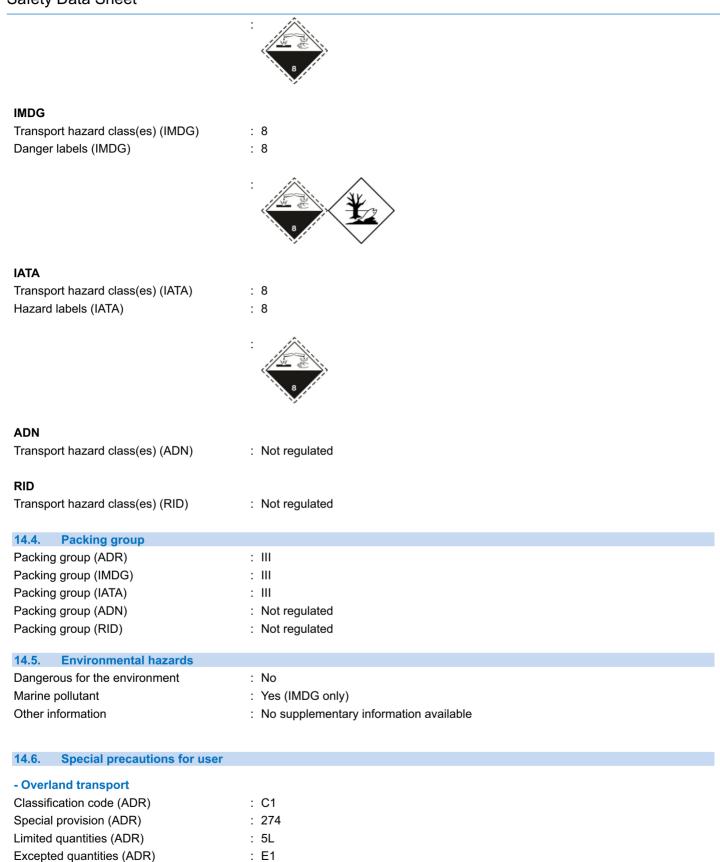
12.1	. Т	oxic	itv

No additional information available

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
12.4. Mobility in soil No additional information available	
12.5. Results of PBT and vPvB asses	sment
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 / IAT	
In accordance with ADR / RID / IMDG / IAI	A/ADN
14.1. UN number	
14.1. UN number UN-No. (ADR)	: 3264
	: 3264 : 3264
UN-No. (ADR)	
UN-No. (ADR) UN-No. (IMDG)	: 3264
UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA)	: 3264 : 3264
UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA) UN-No.(ADN)	: 3264 : 3264 : Not regulated
UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA) UN-No.(ADN)	: 3264 : 3264 : Not regulated
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UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA) UN-No. (ADN) UN-No. (RID) <b>14.2. UN proper shipping name</b>	<ul> <li>3264</li> <li>3264</li> <li>Not regulated</li> <li>Not regulated</li> </ul>
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UN-No. (ADR) UN-No. (IMDG) UN-No.(IATA) UN-No.(ADN) UN-No. (RID) <b>14.2. UN proper shipping name</b> Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR)	<ul> <li>3264</li> <li>3264</li> <li>Not regulated</li> <li>Not regulated</li> <li>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.</li> <li>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.</li> <li>CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.</li> <li>Not regulated</li> <li>Not regulated</li> <li>UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, (E)</li> </ul>
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Safety Data Sheet



: MP19

Version: 1.0

: T7

: P001, IBC03, LP01, R001

Packing instructions (ADR)

instructions (ADR)

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Mixed packing provisions (ADR)

Portable tank and bulk container

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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 and		
- Transport by sea		222 274
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)	:	
Tank special provisions (IMDG)	:	TP1, TP28
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	А
Stowage and handling (IMDG)	:	SW2
MFAG-No	:	154
- 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 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

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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	

### Denmark

**Recommendations Danish Regulation** 

: Young people below the age of 18 years are not allowed to use the product

# 15.2. Chemical safety assessment

#### Ş.

**SECTION 16: Other information** 

#### Full text of H- and EUH-phrases:

Ox. Liq. 1	Oxidising Liquids, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H271	May cause fire or explosion; strong oxidiser
H314	Causes severe skin burns and eye damage

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