



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

## **ARSENIC ICP STANDARD SOLUTION**

CAS-No.: NA

Product Code: 00302B

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form : Mixture  
Trade name : Arsenic ICP Standard Solution

**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**

Company : Chemnovo Synthesis Pvt Ltd.  
N-226 Near Kumbhavali Naka  
Tarapur MIDC, Boisar-401 506  
Palghar, Maharashtra  
Telephone : +91 7400096089  
Email: export@chemnovo.in

**1.4. Emergency telephone number**

Emergency number : + 91 7400096089 (9:00am – 6:00 pm)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 1A	H350
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

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

Adverse physicochemical, human health and environmental effects

No additional information available

**2.2. Label elements**

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

Hazard pictograms (CLP) :

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GHS05

GHS07

GHS08

GHS09

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H315 – Causes skin irritation H319 – Causes serious eye irritation H350 – May cause cancer H412 – Harmful to aquatic life with long lasting effects
Precautionary statements (CLP)	:	P201 – Obtain special instructions before use P273 – Avoid release to the environment 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**

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
Nitric acid	(CAS No) 7697-37-2 (EC no) 231-714-2	1 – 5	Ox. Liq. 1, H271 Skin Corr. 1A, H314
Diarsenic trioxide substance listed as REACH Candidate substance listed in REACH Annex XIV	(CAS-No.) 1327-53-3 (EC-No.) 215-481-4	0.01 – 1	Carc. 1A, H350 Acute Tox. 1 (Oral), H300 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

**SECTION 4: First aid measures**

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### 4.1. Description of first aid measures

First-aid measures after inhalation	:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
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. Get medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after skin contact	:	Causes skin irritation.
Symptoms/injuries after eye contact	:	Causes serious eye irritation.
Symptoms/injuries after ingestion	:	Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

### 4.3. Indication of any immediate medical 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 the substance or mixture

No additional information available

### 5.3. Advice for firefighter

Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.
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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures	:	Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Protective equipment	:	Use personal protective equipment as required.
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### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	:	On land, sweep or shovel into suitable containers.
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### 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. Do not handle until all safety precautions have been read and understood. Do not breathe vapours.
Hygiene measures	:	Do not eat, drink or smoke when using this product. 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, including any incompatibilities**

Storage conditions	:	Store in a well-ventilated place. Keep container tightly closed.
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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	:	Wear respiratory protection

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state	:	Liquid
Colour	:	Clear colourless.
Odour	:	No data available
Odour threshold	:	No data available
pH	:	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

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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

## 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 reactions

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 products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitisation	:	Not classified
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	May cause cancer.
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified
Potential adverse human health effects and symptoms	:	Toxic if swallowed
.	:	

## SECTION 12: Ecological information

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****ARSENIC ICP STANDARD SOLUTION****CAS-No.: NA****12.1. Toxicity**

Ecology – water : Harmful to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

<b>ARSENIC ICP STANDARD SOLUTION</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

**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**

Component	
Diarsenic trioxide (1327-53-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
	This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product/Packaging disposal recommendations : Dispose of contents/container to ...

Ecology – waste materials : Hazardous waste due to toxicity.

**SECTION 14: Transport information**

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

**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

**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) : Not regulated

Proper Shipping Name (RID) : Not regulated

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****ARSENIC ICP STANDARD SOLUTION****CAS-No.: NA**

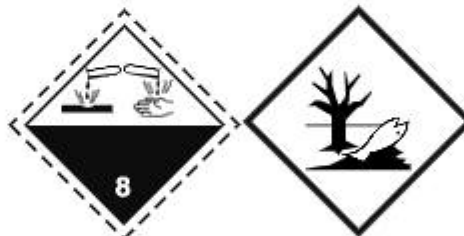
Transport document description (ADR) :	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, (E)
Transport document description (IMDG)	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., 8, III, MARINE POLLUTANT
Transport document description (IATA) :	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, 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) :	8
Danger labels (IMDG) :	8
:	

**IATA**

Transport hazard class(es) (IATA) :	8
Hazard labels (IATA) :	8
:	

**AND**

Transport hazard class(es) (ADN) :	Not regulated
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**RID**

Transport hazard class(es) (RID) :	Not regulated
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**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****ARSENIC ICP STANDARD SOLUTION****CAS-No.: NA****14.4. Packing group**

Packing group (ADR)	:	III
Packing group (IMDG)	:	III
Packing group (IATA)	:	III
Packing group (ADN)	:	Not regulated
Packing group (RID)	:	Not regulated

**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 instructions (ADR)	:	T7

**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**

<b>80</b>
<b>3264</b>

Tunnel restriction code (ADR)	:	E
EAC code	:	2X
APP code	:	B
<b>- Transport by sea</b>		
Special provision (IMDG)	:	223, 274
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, Lp01

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****ARSENIC ICP STANDARD SOLUTION****CAS-No.: NA**

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 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
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 REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration  $\geq 0.1\%$  or with a lower specific limit: Diarsenic trioxide (EC 215-481-4, CAS 1327-53-3)

Contains REACH Annex XIV substances:

Substance name	Authorisation number	Sunset date	REACH authorisation exemptions
Diarsenic trioxide (EC 215-481-4, CAS 1327-53-3)		21/05/2015	

**15.1.2. National regulations**

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****ARSENIC ICP STANDARD SOLUTION****CAS-No.: NA****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**

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**

Full text of H- and EUH-statements:

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 1A	Carcinogenicity, Category 1A
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
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 Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H271	May cause fire or explosion; strong oxidiser
H300	Fatal if swallowed
H314	Causes severe skin burns and eye damage

**MATERIAL SAFETY DATA SHEET (SDS/MSDS)****ARSENIC ICP STANDARD SOLUTION****CAS-No.: NA**

H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H350	May cause cancer
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See [www.chemnovo.in](http://www.chemnovo.in) for additional terms and conditions of sale.

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