# **ARSENIC TRIOXIDE EXTRA PURE MSDS**

# CAS No: 1327-53-3 MSDS



# MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Product form	: Substance
Trade name	: Arsenic trioxide 98%
EC index no	: 033-003-00-0
EC no	: 215-481-4
CAS No	: 1327-53-3
Product code	: 01530
Chemical structure	As <sub>2</sub> O <sub>3</sub>
Synonyms	: Arsenous acid / Arsenic(III) oxide
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
	e substance of mixture and uses advised against
1.2.1. Relevant identified uses Use of the substance/mixture	· Laboratory chamicala, Manufactura of substances
	: 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
Labogens Fine Chem Industries 1st Floor, Above Bank of India, Guru Vil Ludhiana Pb. (141007)	har , Rahon Road,
+91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens	s.com
1.4. Emergency telephone number	r

Emergency number : +91 7707855700 (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]

Acute toxicity (oral), H300 Category 1 Skin corrosion/irritation, H314 Category 1B Carcinogenicity, Category H350 1A Hazardous to the aquatic environment — Chronic Hazard, Category 1

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

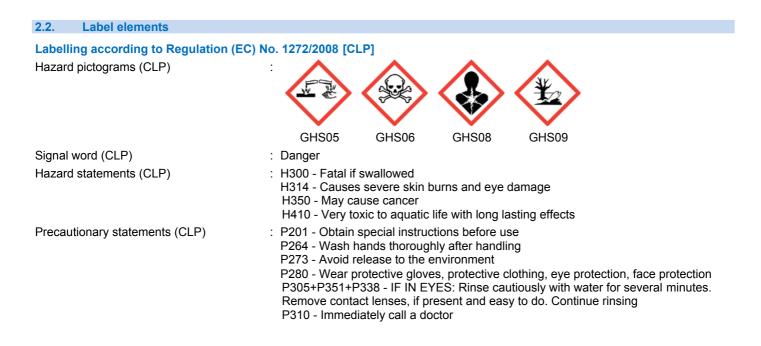
Safety Data Sheet

### Classification according to Directive 67/548/EEC or 1999/45/EC

Carc.Cat.1; R45 T+; R28 C; R34 N; R50/53 Full text of R-phrases: see section 16

# Adverse physicochemical, human health and environmental effects

No additional information available



### 2.3. Other hazards

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

SECTION 3: Composition/information on ingredients		
3.1. Substance		
Name	: ARSENIC TRIOXIDE Extra Pure	
CAS No	: 1327-53-3	
EC no	: 215-481-4	
EC index no	: 033-003-00-0	

### Full text of R- and H-phrases: see section 16

Safety Data Sheet

## 3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Get medical advice/attention. Wash with plenty of soap and water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	<ul> <li>Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.</li> </ul>
4.2. Most important symptoms and ef	fects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
Symptoms/injuries after inhalation	: May cause cancer by inhalation.
Symptoms/injuries after ingestion	: Fatal if swallowed.
4.3. Indication of any immediate medi	cal attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	: Carbon dioxide. Dry powder. Foam. Water spray.
	: 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.
<b>SECTION 6: Accidental release measures</b>	
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
	Evacuate unnecessary personnel.
6.1.2. For emergency responders Protective equipment	: Use personal protective equipment as required.
	: Ventilate area.
6.2. Environmental precautions	
Very toxic to aquatic life with long lasting effe	ects.
6.3. Methods and material for contain	ment and cleaning up
	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as
	possible. On land, sweep or shovel into suitable containers.
6.4. Reference to other sections	
No additional information available	

Safety Data Sheet

SECTION 7: Handling and storage		
· · ·		
7.1. Precautions for safe handling		
Precautions for safe handling	: Do not breathe vapours. Obtain special instructions before use. Avoid contact with skin and eyes.	
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. 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, inc	luding 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/personal protection		
8.1. Control parameters		
No additional information available		

8.2. Exposure controls	
Hand protection	: Protective gloves
Eye protection	: Chemical goggles or face shield
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	: Solid		
Molecular mass	: 197.84 g/mol		
Colour	: White powder.		
Odour	: odourless.		
Odour threshold	: No data available		
рH	: No data available		
Relative evaporation rate (butylacetate=1	) : No data available		
Melting point	: 312.3 °C		
Freezing point	: No data available		
Boiling point	: 457.2 °C		
Flash point	: No data available		
Auto-ignition temperature	: No data available		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
www.Labogens.com	Version: 1	26/04/2016	4/11

### S \_

Safety Data Sheet	
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 3.74 g/cm³ : Water: 3.7 g/100ml @ 20°C
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 additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Thermal decomposition generates : Cor	rosive vapours.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous read	ctions
No additional information available	
10.4. Conditions to avoid	
Air contact. Moisture.	
10.5 Incompatible materials	
10.5.         Incompatible materials           No additional information available         Incompatible materials	
10.6. Hazardous decomposition products	
Thermal decomposition generates : Corrosive vapours.	
SECTION 11: Toxicological informati	on
11.1. Information on toxicological	effects

Acute toxicity

: Oral: Fatal if swallowed.

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	<ul> <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>May cause cancer.</li> </ul>
Reproductive toxicity	: Not classified

# Safety Data Sheet

-	
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	: Fatal if swallowed.
SECTION 12: Ecological information	

Taili Toxioley	
Ecology - water	: Very toxic to aquatic life with long lasting effects.

12.2.	Persistence and degradability	
Arse	enic trioxide 98% (1327-53-3)	
Pers	istence 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	
Arse	nic trioxide 98% (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 / IAT	A / ADN

MANAN Lab	ogens com	Version: 1	26/04/2016	6/11
UN-No.	. (ADR)	: 1561		
14.1.	UN number			

# Safety Data Sheet

UN-No. (IMDG)	: 1561	
UN-No.(IATA)	: 1561	
UN-No.(ADN)	: 1561	
UN-No. (RID)	: 1561	

14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: ARSENIC TRIOXIDE
Proper Shipping Name (IMDG)	: ARSENIC TRIOXIDE
Proper Shipping Name (IATA)	: ARSENIC TRIOXIDE
Proper Shipping Name (ADN)	: ARSENIC TRIOXIDE
Proper Shipping Name (RID)	: ARSENIC TRIOXIDE
Transport document description (ADR)	: UN 1561 ARSENIC TRIOXIDE, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1561 ARSENIC TRIOXIDE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1561 ARSENIC TRIOXIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1561 ARSENIC TRIOXIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 1561 ARSENIC TRIOXIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

# 14.3. Transport hazard class(es)

## ADR

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



: 6.1 : 6.1

:



# IMDG

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



# ΙΑΤΑ

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





# ADN

Transport hazard class(es) (ADN)	:	6.1
Danger labels (ADN)	:	6.1

Safety Data Sheet



# RID

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



: 6.1

: 6.1

14.4. Packin	ig group	
Packing group (A	ADR)	: 11
Packing group (	IMDG)	: 11
Packing group (	IATA)	: 11
Packing group (A	ADN)	: 11
Packing group (I	RID)	: 11
14.5. Enviro	nmental hazards	
Dangerous for the	he environment	: Yes

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user		
- Overland transport		
Classification code (ADR)	:	Т5
Limited quantities (ADR)	:	500g
Excepted quantities (ADR)	:	E4
Packing instructions (ADR)	:	P002, IBC08
Special packing provisions (ADR)	:	B4
Mixed packing provisions (ADR)	:	MP10
Portable tank and bulk container instructions (ADR)	:	Т3
Portable tank and bulk container special provisions (ADR)	:	TP33
Tank code (ADR)	:	SGAH
Tank special provisions (ADR)	:	TU15, TE19
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	2
Special provisions for carriage - Packages (ADR)	:	V11
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV13, CV28
Special provisions for carriage - Operation (ADR)	:	S9, S19
Hazard identification number (Kemler No.)	:	60
Orange plates	:	60
		1
		1561

# Safety Data Sheet

<b>,</b>	
Tunnel restriction code (ADR)	: D/E
EAC code	: 2X
Transport by soa	
- Transport by sea	· 500 a
Limited quantities (IMDG)	: 500 g : E4
Excepted quantities (IMDG)	
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B2, B4
Tank instructions (IMDG)	: T3
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
MFAG-No	: 151
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y644
PCA limited quantity max net quantity	: 1kg
(IATA)	. ING
PCA packing instructions (IATA)	: 669
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 676
CAO max net quantity (IATA)	: 100kg
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T5
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 500 g
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: T5
Limited quantities (RID)	: 500g
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special	: TP33
provisions (RID)	
Tank codes for RID tanks (RID)	: SGAH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Packages (RID)	
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE9
Hazard identification number (RID)	: 60

Safety Data Sheet

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

### No REACH Annex XVII restrictions

Diarsenic trioxide is on the REACH Candidate List

Diarsenic trioxide is on the REACH Annex XIV List:

Authorisation number	Sunset date	REACH authorization exemptions
	21/05/2015	

### 15.1.2. National regulations

### Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 299)	
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)	
Denmark		
Denmark Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use 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 R-, H- and EUH-phrases:

Acute toxicity (oral), Category 1
Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carcinogenicity, Category 1A
Skin corrosion/irritation, Category 1B
Fatal if swallowed
Causes severe skin burns and eye damage
May cause cancer

Safety Data Sheet

H410	Very toxic to aquatic life with long lasting effects
R28	Very toxic if swallowed
R34	Causes burns
R45	May cause cancer
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
С	Corrosive
Ν	Dangerous for the environment
T+	Very toxic

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