ARSENIC TRIOXIDE AR MSDS

CAS No: 1327-53-3 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

Product identifier

Product form : Substance Trade name : Arsenic Trioxide EC index no : 033-003-00-0 EC no : 215-481-4 CAS No : 1327-53-3 : 01531 Product code

Synonyms : Arsenous acid / Arsenic trioxide

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

Uses advised against

No additional information available

Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. **Emergency telephone number**

Emergency number : +91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

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

Hazardous to the aquatic H410

environment — Chronic Hazard, Category 1

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

Version: 1 26/04/2016 1/11 www.lobachemie.com

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

2.2. Label elements

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

Hazard pictograms (CLP) :









GHS05

GHS06 GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H300 - Fatal if swallowed

H314 - Causes severe skin burns and eye damage

H350 - May cause cancer

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P201 - Obtain special instructions before use

P264 - Wash hands thoroughly after handling 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

P310 - Immediately call a doctor

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 AR

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

3.2. Mixture

Not applicable

Safety Data Sheet

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : 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 immediate 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 : Rinse mouth. Immediately call a POISON CENTER or doctor/physician. Do NOT

induce vomiting.

4.2. Most important symptoms and effects, 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 medical 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 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

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.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for 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

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.

Safety Data Sheet

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, including 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

Colour : White powder.

Odour : odourless.

Odour threshold : No data available

pH : 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

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Safety Data Sheet

Density : 3.74 g/cm³

Solubility : 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: Corrosive vapours.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Overheating. Open flame. Heat. Sparks.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Fatal if swallowed.

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Serious eye damage, category 1, implicit

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

Reproductive toxicity : Not classified Specific target organ toxicity (single : Not classified

exposure)

Specific target organ toxicity (repeated

exposure)

: Not classified

Safety Data Sheet

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Fatal if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water

: Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Arsenic Trioxide (1327-53-3)

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

Arsenic 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

: Dispose of contents/container to ...

recommendations

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

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

14.1. UN number

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

Safety Data Sheet

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 : UN 1561 ARSENIC TRIOXIDE, 6.1, II, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

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



IMDG

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



IATA

Transport hazard class(es) (IATA) : 6.1 Hazard labels (IATA) : 6.1



ADN

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



RID

Transport hazard class(es) (RID) : 6.1

Safety Data Sheet

Danger labels (RID) : 6.1



14.4. **Packing group**

Packing group (ADR) : II : II Packing group (IMDG) Packing group (IATA) : II Packing group (ADN) : 11 Packing group (RID) : II

Environmental hazards

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) : T5 Limited quantities (ADR) : 500g Excepted quantities (ADR) : E4

: P002, IBC08 Packing instructions (ADR)

Special packing provisions (ADR) : B4 : MP10 Mixed packing provisions (ADR) Portable tank and bulk container : T3

instructions (ADR)

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 : V11

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

: CV13, CV28

Special provisions for carriage - Operation : S9, S19

(ADR)

Hazard identification number (Kemler No.)

Orange plates

60 1561

Tunnel restriction code (ADR) : D/E EAC code : 2X

- Transport by sea

Limited quantities (IMDG) : 500 g Excepted quantities (IMDG) : E4 Packing instructions (IMDG) : P002 IBC packing instructions (IMDG) : IBC08

26/04/2016 8/11 www.lobachemie.com Version: 1

Safety Data Sheet

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)	:	Α
MFAG-No	:	151

- Air transport

PCA Excepted quantities (IATA) : E4
PCA Limited quantities (IATA) : Y644
PCA limited quantity max net quantity : 1kg

(IATA)

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 : T3

instructions (RID)

Portable tank and bulk container special

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 : W11

(RID)

Special provisions for carriage - Loading

and unloading (RID)

: CW13, CW28, CW31

Colis express (express parcels) (RID) : CE9
Hazard identification number (RID) : 60

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: TP33

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

Safety Data Sheet

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. BlmSchV (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 R-, H- and EUH-phrases:

Acute Tox. 1 (Oral)	Acute toxicity (oral), Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H300	Fatal if swallowed
H314	Causes severe skin burns and eye damage
H350	May cause cancer
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
N	Dangerous for the environment
T+	Very toxic

26/04/2016 10/11 www.lobachemie.com Version: 1

Safety	Data	Sheet
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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

www.lobachemie.com Version: 1 26/04/2016 11/11