LEAD MONOXIDE AR MSDS

CAS No: 1317-36-8 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identificat	ion of the substance/mixture and of the company/undertaking	
1.1. Product identi		
Product form	: Substance	
CAS No	: 1317-36-8	
Product code	: 04376	
1.2. Relevant ident	tified uses of the substance or mixture and uses advised against	
1.2.1. Relevant ident	tified uses	
Use of the substance/mi	ixture : Industrial. For professional use only.	
1.2.2. Uses advised No additional information	-	
1.3. Details of the	supplier of the safety data sheet	
Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 <u>sales@labogens.com</u> - <u>www.Labogens.com</u>		
1.4. Emergency te	lephone number	
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)	
SECTION 2: Hazards id	dontification	
	of the substance or mixture	
	ng to Regulation (EC) No. 1272/2008 [CLP]	
Acute toxicity (oral), Category 4	H302	
Acute toxicity (inhal.),	H332	
Category 4 Reproductive toxicity, Category 1A	H360Df	
Specific target organ toxicity — Repeated	H373	

Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

exposure, Category 2

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

Repr.Cat.1; R61 Repr.Cat.3; R62 Xn; R20/22 N; R50/53 R33 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

0.0 Lobel elemente		
2.2. Label elements		
Labelling according to Regulation (EC) No. 1272/2008 [CLP]		
Hazard pictograms (CLP)	GHS07 GHS08 GHS09	
Signal word (CLP)	: Danger	
•	: H302+H332 - Harmful if swallowed or if inhaled	
Hazard statements (CLP)	H360Df - May damage the unborn child. Suspected of damaging fertility H373 - May cause damage to organs through prolonged or repeated exposure H410 - Very toxic 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 P501 - Dispose of contents/container to {0 message= <specify accordance="" in="" with<br="">local/regional/national/international regulations> default=hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation filter=(_)?DISPOSAL+}</specify>	

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

SECTIO	ON 3: Composition/inf	rmation on ingredients	
3.1.	Substance		
Name		: LEAD MONOXIDE AR	
CAS No	D	: 1317-36-8	

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 person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: May damage the unborn child. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	: Harmful if inhaled.
Symptoms/injuries after ingestion	: Harmful if swallowed.
	ical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: 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 attempt to take action without suitable protective equipment.
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	
No additional information available	
6.2. Environmental precautions	anta
Very toxic to aquatic life with long lasting eff	ecis.
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Clear up rapidly by scoop or vacuum.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	. Do not out drink or amoke when using this product Week therewelly after
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place.

Safety Data Sheet

7.3.	. Specific end use(s)	
No ad	No additional information available	
SECT	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 appropriate mask
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	
Physical state	: Solid
Colour	: Yellow powder.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 8860 °C
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	: 10 mm Hg at 10850C
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 9.53 g/cm ³ : Water: Insoluble
Log Pow	: No data available
Viscosity, kinematic	: No data available

Safety Data Sheet

Safety Data Sheet	
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 react	tions
No additional information available	
10.4. Conditions to avoid	
10.4. Conditions to avoid Air contact. Moisture.	
Al contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pro	oducts
No additional information available	
SECTION 11: Toxicological informatio	n
11.1. Information on toxicological e	effects
Acute toxicity	: Oral: Harmful if swallowed. Inhalation: Harmful if inhaled.

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	 Not classified Not classified Not classified Not classified Not classified
Reproductive toxicity Specific target organ toxicity (single exposure)	 May damage the unborn child. Suspected of damaging fertility. Not classified
Specific target organ toxicity (repeated exposure) Additional information	 May cause damage to organs through prolonged or repeated exposure. There are potential chronic health effects to consider
Aspiration hazard	: Not classified

Safety Data Sheet

Potential adverse human health effects and symptoms	: Harmful 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	
LEAD MONOXIDE AR (1317-36-8)	
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

LEAD MONOXIDE AR (1317-36-8)
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 effectsNo additional information available	
SECTION 13: Disposal considerations	
13.1.Waste treatment methodsProduct/Packaging disposalrecommendations	: Dispose of contents/container to
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / ADN	
14.1. UN number	. 0004
UN-No. (ADR)	: 2291 : 2291
UN-No. (IMDG)	
UN-No.(IATA)	: 2291 : 2291
UN-No.(ADN)	
UN-No. (RID)	: 2291
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: LEAD COMPOUND, SOLUBLE, N.O.S.
Proper Shipping Name (IMDG)	: LEAD COMPOUND, SOLUBLE, N.O.S.
Proper Shipping Name (IATA)	: LEAD COMPOUND, SOLUBLE, N.O.S.
Proper Shipping Name (ADN)	: LEAD COMPOUND, SOLUBLE, N.O.S.
Proper Shipping Name (RID)	: LEAD COMPOUND, SOLUBLE, N.O.S.

Safety Data Sheet

Transport document description (ADR)	: UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S., 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S., 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S., 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S., 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2291 LEAD COMPOUND, SOLUBLE, N.O.S., 6.1, III, ENVIRONMENTALLY HAZARDOUS

14.3.	Transport hazard class(es)	
ADR		
Transpo	ort hazard class(es) (ADR)	: 6.1
Danger	labels (ADR)	: 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) Danger labels (ADN) : 6.1 : 6.1

> 6.1 6.1



RID

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

Safety Data Sheet



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 bazards			

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

14.6. Special precautions for user

Overland frances art	
- Overland transport	: T5
Classification code (ADR)	
Special provision (ADR)	: 199, 274, 535
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	60
	2291
Tunnel restriction code (ADR)	: E
EAC code	: 2Z
- Transport by sea	
Special provision (IMDG)	: 199, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08

Safety Data Sheet

IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
MFAG-No	: 151
- Air transport	. 54
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provision (IATA)	: A92
ERG code (IATA)	: 6L
Inland waterway transport	
- Inland waterway transport	
Classification code (ADN)	: T5 : 100 274 525 802
Special provisions (ADN)	: 199, 274, 535, 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: T5
Special provision (RID)	: 199, 274, 535
Limited quantities (RID)	: 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk	: VC1, VC2, AP7
(RID)	
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60

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

Not applicable

Safety Data Sheet

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 Lead monoxide (lead oxide) is on the REACH Candidate List LEAD MONOXIDE AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 3649)
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 add	itional information available		

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Repr. 1A	Reproductive toxicity, Category 1A	
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2	
H302	Harmful if swallowed	
H332	Harmful if inhaled	
H360Df	May damage the unborn child. Suspected of damaging fertility	
H373	May cause damage to organs through prolonged or repeated exposure	
H410	Very toxic to aquatic life with long lasting effects	
R20/22	Harmful by inhalation and if swallowed	

Safety Data Sheet

R33	Danger of cumulative effects
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R61	May cause harm to the unborn child
R62	Possible risk of impaired fertility
Ν	Dangerous for the environment
Xn	Harmful

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