Lead Powder

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date: 10/18/2016 Version: 1.0

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

1.1. Product Identifier

Product form : Substance

Substance name : Lead Powder

Synonyms : High-Purity Lead, Lead powder

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 : Thread Compound, Shielding, Friction Products, Ballast. For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company

Atomized Products Group, Inc
3838 Miller Park Dr
Garland, TX 75042
T 972-272-9596
atomizedproductsgroup.com

1.4. Emergency Telephone Number

Emergency Number : 800-255-3924 (CHEMTEL)

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

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

Lact.	H362
Repr. 1A	H360FD
STOT RE 1	H372
Aquatic Acute 1 (M-Factor = 10)	H400
Aquatic Chronic 1	H410

Full text of H-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) :

GHS08

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : H360FD - May damage fertility. May damage the unborn child
H362 – May cause harm to breast-fed children
H372 - Causes 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.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust.
P263 - Avoid contact during pregnancy and while nursing.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling

P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P314 - Get medical advice/attention if you feel unwell.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, national, and international regulations.

2.3. Other Hazards

Other hazards not contributing to the classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. May form combustible dust concentrations in air. Attention! - Contains lead. Exposure may aggravate individuals with pre-existing skin, kidney, liver, and pulmonary disorders.

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : Lead Powder

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lead	(CAS No) 7439-92-1 (EC no) 231-100-4	100	Repr. 1A H360FD Lact. H362 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of First Aid Measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation persists.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Seek medical attention if a large amount is swallowed.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms/injuries : May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful if swallowed. Harmful if inhaled.

Symptoms/injuries after inhalation : Harmful if inhaled. Respiratory tract irritation.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Prolonged contact with large amounts of dust may cause mechanical irritation.

Symptoms/injuries after ingestion : Harmful if swallowed. May cause nausea, vomiting, and diarrhea.

Chronic symptoms : Attention! - Contains lead. Lead: Exposure can result in lassitude (weakness, exhaustion), insomnia; facial pallor; anorexia, weight loss, malnutrition; constipation, abdominal pain, colic; anemia; gingival lead line; tremor; encephalopathy; kidney disease; hypertension. Prolonged exposure may cause effects in specific organs such as the liver, kidneys, blood, and nervous system.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing Media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire hazard : Not considered flammable but may burn at high temperatures. Dust explosion hazard in air.

Explosion hazard : Avoid dust clouds in combination with static electricity. Dust explosion hazard in air.

Reactivity : Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.

Firefighting instructions : Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Risk of dust explosion. Do not allow the product to be released into the environment. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust. Avoid generating dust. Avoid all contact with skin, eyes, or clothing.

6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protection equipment (PPE).

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment : Avoid generation of dust during clean-up of spills. Use only non-sparking tools.

Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Avoid generation of dust during clean-up of spills. Use only non-sparking tools. Use explosion proof vacuum during cleanup, with appropriate filter, do not mix with other materials. Contact competent authorities after a spill.

6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid dust production. Accumulation and dispersion of dust with an ignition source can cause a combustible dust explosion, keep dust levels to a minimum and follow applicable regulations. Do not pressurize, cut, or weld containers. Warning! Contains lead.

Precautions for safe handling : Use only non-sparking tools. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety procedures.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.

Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, ignition sources, incompatible materials.

Incompatible products : Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

Thread Compound, Shielding, Friction Products, Ballast.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lead (7439-92-1)		
Austria	MAK (mg/m³)	0.1 mg/m³
Austria	MAK Short time value (mg/m³)	0.4 mg/m³
Bulgaria	OEL TWA (mg/m³)	0.05 mg/m³
Cyprus	OEL TWA (mg/m³)	0.15 mg/m³
France	VME (mg/m³)	0.1 mg/m³ (restrictive limit)
Germany	TRGS 903 (BGW)	300 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women age below 45 years) 400 µg/l (Medium: whole blood - Time: no restriction - Parameter: Lead (women 45 years and older)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.05 mg/m³
Italy	OEL TWA (mg/m³)	0.15 mg/m³
Latvia	OEL TWA (mg/m³)	0.005 mg/m³
Spain	VLA-ED (mg/m³)	0.15 mg/m³
United Kingdom	WEL TWA (mg/m³)	0.15 mg/m³
United Kingdom	WEL STEL (mg/m³)	0.45 mg/m³ (calculated)
Czech Republic	Expoziční limity (PEL) (mg/m³)	0.05 mg/m³
Denmark	Grænseværdie (langvarig) (mg/m³)	0.05 mg/m³
Finland	HTP-arvo (8h) (mg/m³)	0.1 mg/m³ (all works)
Hungary	AK-érték	0.15 mg/m³
Ireland	OEL (8 hours ref) (mg/m³)	0.15 mg/m³
Lithuania	IPRV (mg/m³)	0.07 mg/m³

Lead (7439-92-1)		
Poland	NDS (mg/m³)	0.05 mg/m³
Romania	OEL TWA (mg/m³)	0.05 mg/m³
Romania	OEL STEL (mg/m³)	0.10 mg/m³
Slovakia	NPHV (priemerná) (mg/m³)	0.15 mg/m³
Sweden	nivågränsvärde (NVG) (mg/m³)	0.05 mg/m³
Portugal	OEL TWA (mg/m³)	0.05 mg/m³
Portugal	OEL chemical category (PT)	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

8.2. Exposure controls

Appropriate engineering controls : Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles. Respiratory protection of the dependent type. Protective clothing.

Materials for protective clothing : Chemically resistant materials and fabrics.

Hand protection : Wear chemically resistant protective gloves.

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Thermal hazard protection : Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Appearance	:	Blue. Gray Powder.
Colour	:	No data available
Odour	:	Odorless.
Odour threshold	:	No data available
pH	:	3.7 - 6
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	327 °C (620.6°F)
Freezing point	:	No data available
Boiling point	:	1740 °C (3164°F)
Flash point	:	No data available
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	1.77 mm Hg (@1000°C (1832°F)
Relative vapour density at 20 °C	:	No data available
Relative density	:	No data available
Solubility	:	Insoluble in water.
Log Pow	:	No data available
Log Kow	:	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

Hazardous reactions will not occur under normal conditions. Dust clouds can be explosive.

10.2. Chemical stability

Dust clouds can be explosive.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Oxides of lead.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled.

Lead Powder	
ATE (oral)	500.000 mg/kg bodyweight
ATE (dust,mist)	1.500 mg/l/4h

Lead (7439-92-1)	
ATE (oral)	500.000 mg/kg bodyweight
ATE (dust,mist)	1.500 mg/l/4h

Skin corrosion/irritation : Not classified pH: 3.7 - 6
Serious eye damage/irritation : Not classified pH: 3.7 - 6
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : May damage fertility or the unborn child.
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Lead (7439-92-1)	
LC50 fishes 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1	600 µg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	1.17 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

12.2. Persistence and degradability

Lead Powder	
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

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional information : The materials contained within this product are hazardous to the environment, do not release into the environment.

SECTION 14: Transport information

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

14.1. UN number

UN-No : 3077

14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead powder), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN) : 9

Hazard labels (UN) : 9

14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Dangerous for the environment :

Marine pollutant

Other information : No supplementary information available.

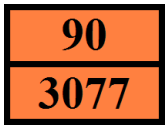
14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 90

Classification code (UN) : M7

Orange plates :



Special provision (ADR) 274, 335, 601

Transport category (ADR) 3

Tunnel restriction code : E

Limited quantities (ADR) 5kg

Excepted quantities (ADR) : E1

EAC code : 2Z

14.6.2. Transport by sea

MFAG-No : 171

14.6.3. Air transport

No additional information available

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

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Revision date: 31/01/2014

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending Regulation (EC) No 1272/2008

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

Aquatic Acute 1 (M-factor = 10)	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Repr. 1A	Reproductive toxicity, Category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H360FD	May damage fertility. May damage the unborn child
H362	May cause harm to breast-fed children
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS EU (REACH Annex II)

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.