

(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
ocument Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	1/11

D

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Description	: Aluminum powder
Cat No.	: A/1605/53, A/1605/50
CAS-No	: 7429-90-5
EC-No.	: 231-072-3
Molecular Formula	: AI

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	: Laboratory chemicals.
Uses advised against	: No Information available

1.3. Details of the supplier of the safety data sheet

Manufacturer	: GÜVEN METAL SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Address	: Sanayi mah. 60001 nolu cadde No:47 Şehitkamil – Gaziantep / TÜRKİYE
Web	: www.guvenmetal.com.tr
E-mail address	: info@guvenmetal.com.tr

1.4. Emergency telephone number : +90 342 2350225

2. SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Flammable solids Substances/mixtures which, in contact with water, emit flammable gases Category 1 (H228) Category 2 (H261)

Health hazards Based on availa

Based on available data, the classification criteria are not met

2.2. Label elements



Signal Word

Danger

Hazard Statements H228 - Flammable solid H261 - In contact with water releases flammable gases May form combustible dust concentrations in air

> GUVEN METAL SANAYİ VE TİCARET LİMİTED ŞİRKETİ Sanayi mah. 60001 nolu cad. No:47 Sehitkamil - Gaziantep / TÜRKİYE T +90 342 2350225 F +90 342 2350154 info@guvenmetal.com.tr www.guvenmetal.com.tr



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	2/11

Precautionary Statements

P240 - Ground and bond container and receiving equipment
P231 + P232 - Handle and store contents under inert gas. Protect from moisture.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P302 + P335 + P334 - IF ON SKIN:Brush off loose particles from skin. Immerse in cool water

2.3. Other hazards

Water reactive In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment

May form explosible dust-air mixture if dispersed

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

С	omponent	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/200
	inium powder stabilized)	7429-90-5	EEC No. 231-072-3	>95	Flam. Sol. 1 (H228) Water-react. 2 (H261)
4. SEC	TION 4: FIRST AID	MEASURES			
4.1.	Description of first	aid measures			
	Eye Contact Get medical attent		: Rinse immediately wi	th plenty of w	ater, also under the eyelids, for at least 15 minute
	Skin Contact clothing and gloves				d plenty of water. Remove and wash contaminate tention if irritation develops and persists.
	Ingestion medical attention.		: Do NOT induce vomit	ing. Never giv	e anything by mouth to an unconscious person. Ge
	Inhalation respiration.		Remove to fresh air. I	f breathing is	difficult, give oxygen. If not breathing, give artificia
			: Ensure that medical p t spread of contaminat		aware of the material(s) involved, take precautions
4.2.	Most important sy No information ava	•	ffects, both acute and	delayed	
4.3.	Indication of any in Notes to Physician		ical attention and spece nptomatically.	cial treatment	needed



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	3/11

5. SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Dry sand. Limestone powder. dry clay. metal fire extinguishing powder.

Extinguishing media which must not be used for safety reasons

Water. Decomposition by contact with water may generate vapors which can be ignited by heat or open flame. Remove all sources of ignition.

5.2. Special hazards arising from the substance or mixture

Contact with water liberates extremely flammable gases. Dust can form an explosive mixture with air. May be ignited by heat, sparks or flames. May ignite on contact with moist air or moisture. Flammable. Fine dust dispersed in air may ignite.

Hazardous Combustion Products

Hydrogen, Burning produces obnoxious and toxic fumes, Fumes of aluminum or aluminum oxide.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required. For further specification, refer to section 8 of the SDS.

Do not get water inside containers: Protect from moisture

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Avoid dust formation. Sweep up and remove immediately. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not expose spill to water.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	4/11

7. SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Do not allow contact with water.Minimize dust generation and accumulation. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges. Do not get water inside containers

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area. Keep away from heat, sparks and flame.Keep away from oxidizing agents. Keep away from combustible material. Keep away from acids.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK)(Germany) Class 4.3

7.3. Specific end use(s)

Use in laboratories

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): UK - EH40/2005 Work Exposure Limits, Third edition. Published 2018. IRE - 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Aluminium powder (stabilized)	STEL: 30 mg/m ³ 15 min STEL: 12 mg/m ³ 15 min TWA: 10 mg/m ³ 8 hr TWA: 4 mg/m ³ 8 hr		TWA: 1 mg/m ³ 8 hr. respirable fraction STEL: 3 mg/m ³ 15 min

Biological limit values

List source(s):

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

Derived No Effect Level (DNEL)

No information available



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product Document Code	: :	Gme-14000 Aluminum Powder AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	5/11

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral Dermal Inhalation				

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment Eye Protection
--

Goggles (European standard - EN 166)

Hand Protection

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Natural rubber				
Nitrile rubber	See manufacturers	_	EN 374	(minimum requirement)
Neoprene	recommendations	-	EN 374	(minimum requirement)
PVC				~
		ar appropriate protective glow	as and clothing to prove	ant skin evnosure

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure

Protective gloves

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.(Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g.sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Recommended Filter type: Particulates filter conforming to EN 143

Small scale/Laboratory use Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Particle filtering: EN149:2001 When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

No information available.



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

:	Gme-14000 Aluminum Powder
:	AG-F-159
:	12/09/2018
:	11/06/2020
:	01
:	6/11
	: : :

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties



10.1. Reactivity

Yes



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	7/11

10.2. Chemical stability Moisture sensitive, Air sensitive, Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	No information available.

10.4. Conditions to avoid Exposure to air. Incompatible products. Exposure to moist air or water. Ignitions sources -heat, sparks and open flames.

10.5. Incompatible materials

Bases. Water. Strong acids. Halogenated compounds. Chlorine. Fluorine. Bromine. oxygen.lead oxides. Carbon dioxide (CO2).

10.6. Hazardous decomposition products

Hydrogen. Burning produces obnoxious and toxic fumes. Fumes of aluminum or aluminum oxide.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Product Information	No acute toxicity information is available for this product
11.1.1. acute toxicity; Oral Dermal Inhalation	No data available No data available No data available
11.1.2. skin corrosion/irritation;	No data available
11.1.3. serious eye damage/irritation;	No data available
11.1.4. respiratory or skin sensitization; Respiratory Skin	No data available No data available
11.1.5. germ cell mutagenicity;	No data available
11.1.6. carcinogenicity;	No data available There are no known carcinogenic chemicals in this product
11.1.7. reproductive toxicity;	No data available
11.1.8. STOT-single exposure;	No data available
11.1.9. STOT-repeated exposure; Target Organs	No data available No information available.



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	8/11

 11.1.10. aspiration hazard;
 Not applicable Solid

 Other Adverse Effects
 See actual entry in RTECS for complete information

 Symptoms / effects,both acute and delayed
 No information available.

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

12. SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity **Ecotoxicity effects** Reacts with water so no ecotoxicity data for the substance is available. 12.2. Persistence and degradability Persistence Persistence is unlikely, based on information available, Insoluble in water. Not relevant for inorganic substances, No information available, Reacts with Degradability water. No information available. Water reactive. Degradation in sewage treatment plant 12.3. Bioaccumulative potential Product does not bioaccumulate due to reaction with water; May have some potential to bioaccumulate 12.4. Mobility in soil Reacts with water Spillage unlikely to penetrate soil Is not likely mobile in the environment. Is not likely mobile in the environment due its low water solubility. 12.5. Results of PBT and vPvB assessment Water reactive. In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment. 12.6. Endocrine disrupting properties **Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors 12.7. Other adverse effects **Persistent Organic Pollutant** This product does not contain any known or suspected substance **Ozone Depletion Potential** This product does not contain any known or suspected substance **13. SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from Residues/Unused Products Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	9/11

Contaminated Packaging Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

European Waste Catalogue (EWC) specific, but application specific.

According to the European Waste Catalog, Waste Codes are not product

Other Information Waste codes should be assigned by the user based on the application for which the product was used. Do not flush to sewer. Can be landfilled or incinerated, when in compliance with local regulations.

14. SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number	UN1396		
14.2. UN proper shipping name	Aluminum powder, uncoated		
14.3. Transport hazard class(es)	4.3 (R)		
14.4. Packing group			
14.4.1. UN number 14.4.2. UN proper shipping name	UN1396 Aluminum powder, uncoated		
14.4.3. Transport hazard class(es)	4.3		
14.4.4. Packing group			
	"		
ΙΑΤΑ			
14.4.4.1. UN number	UN1396		
14.4.4.2. UN proper shipping name	Aluminium powder, uncoated		
14.4.4.3. Transport hazard class(es)	4.3		
14.4.4.4. Packing group	II		
14.5. Environmental hazards	No hazards identified		
14.6. Special precautions for user	No special precautions required		
14.7. Maritime transport in bulk according to IMO instruments	Not applicable, packaged goods		
15. SECTION 15: REGULATORY INFORMATION			

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	10/11

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Aluminium powder (stabilized)	231-072-3	-		х	х	-	х	х	х	х	KE-0088 1
Regulation (EC) N import of danger Not applicable		he Europe	an Par	liament	and of t	he Coun	cil of 4 Ju	ly 2012 (concernir	ng the ex	port and
National Regulation	ons										
WGK Classificatio	n	See table	for val	ues							
Component		German	y - Wat	er Class	ification	(VwVwS))	Ger	many - TA	A-Luft Cla	SS
Aluminium powder (st	abilized)			231-072	-3				-		
											R
Component				Frai	nce - INI	RS (Tables	s of occup	oational	diseases)		
Alu <mark>miniu</mark> m powder (st UK - Take note of		tances Haz		leaux de	s malad	ies <mark>pr</mark> ofe	oro <mark>fessi</mark> or ssionnelle COSHH) 20	es (TMP)	- R <mark>G 1</mark> 6,F	RG 16bis	V ETT
15.2. Chemical safety a	ssessment										
A Chemical Safety	Assessment/Re	port (CSA)	/CSR) h	as not b	een con	ducted					
16. SECTION 16: OTHER I	NFORMATION	1									
Full text of H-Statemen H228 - Flammable solid		ınder secti	ons 2 a	and 3							

H261 - In contact with water releases flammable gases

TSCA - United States Toxic Substances Control Act Section 8(b) CAS - Chemical Abstracts Service Inventory EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances **ENCS** - Japanese Existing and New Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances NZIOC - New Zealand Inventory of Chemicals WEL - Workplace Exposure Limit TWA - Time Weighted Average ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer

> GUVEN METAL SANAYİ VE TİCARET LİMİTED ŞİRKETİ Sanayi mah. 60001 nolu cad. No:47 Sehitkamil - Gaziantep / TÜRKİYE T +90 342 2350225 F +90 342 2350154 info@guvenmetal.com.tr www.guvenmetal.com.tr



(Commission Regulation (EU) 2015/830 of 28 May 2015)

Gme-14000 Aluminum Powder

Product	:	Gme-14000 Aluminum Powder
Document Code	:	AG-F-159
Prepared at	:	12/09/2018
Revised at	:	11/06/2020
Revision No	:	01
Page No	:	11/11

DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration	Predicted No Effect Concentration (PNEC) LD50 - Lethal Dose 50% EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water
PBT - Persistent, Bioaccumulative, Toxic	vPvB - very Persistent, very Bioaccumulative
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor Training Advice	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC (volatile organic compound)
5	Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit

and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text