

PRODUCT INFORMATION SHEET

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

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1.1. Product identifier	
Trade name or	Aluminum Silicon Alloy
designation of the mixture	
Registration number	-
Document number	L64
Synonyms	AMC4632, AMC4632E, AMC4631, AMC4630, Aluminum Silicon Alloy
Issue date	27-August-2019
Version number	04
Revision date	21-August-2023
Supersedes date	21-August-2023
1.3. Details of the supplier of	the product information sheet
Supplier	
Company name	Materion Brush Inc.
Address	6070 Parkland Boulevard
	Mayfield Heights, OH 44124
_	United States
Division	
Telephone	1.216.383.4019
e-mail	ehs@materion.com
Contact person	Theodore Knudson
1.4. Emergency telephone number	See Section 16.
1.2. Relevant identified uses of	of the substance or mixture and uses advised against
Identified uses	Industrial uses: Uses of substances as such or in preparations at industrial sites Manufacture of basic metals, including alloys Manufacture of computer, electronic and optical products, electrical equipment
	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment Electricity, steam, gas water supply and sewage treatment Scientific research and development Other: Manufacture of medical and defense equipment
Uses advised against	Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Consumer uses: Private households (= general public = consumers)
1.3. Details of the supplier of	the safety data sheet
Supplier	
Company name	Materion Brush Inc.
Address	6070 Parkland Boulevard
	Maufield Heights OH 11121

	Mayfield Heights, OH 44124 United States
Division	
Telephone	1.216.383.4019
e-mail	ehs@materion.com
Contact person	Theodore Knudson
1.4. Emergency telephone number	See Section 16.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Skin sensitisation	Category 1	H317 - May cause an allergic skin
		reaction.

Carcinogonicity		Catagony 2	H2E1 Currented of coursing
Carcinogenicity		Category 2	H351 - Suspected of causing cancer.
Specific target organ tox exposure	icity - repeated	Category 1 (Respiratory system)	H372 - Causes damage to organs (respiratory system) through prolonged or repeated exposure by inhalation. H372 - Causes damage to organs (Respiratory system) through prolonged or repeated exposure.
Hazard summary	May cause an al		d exposure. Suspected of causing cancer. may cause chronic effects. Occupational e health effects.
2.2. Label elements			
Label according to Regulation	n (EC) No. 1272/2	2008 as amended	
Contains:		per, Iron, magnesium, powder or turning	as, Nickel, Silicon
Hazard pictograms		▲	5-,,
		!	
Signal word	Danger		
Hazard statements			
H317 H372	involves grinding hazardous levels May cause an al	sold in solid form is generally not consid g, melting, cutting or any other process s of airborne particulate could be genera llergic skin reaction. to organs (respiratory system) through	ted.
1072	inhalation.		······································
H351	Suspected of ca		
H372	Causes damage	to organs (Respiratory system) through	prolonged or repeated exposure
Precautionary statements			
Prevention			
P201		nstructions before use.	
P202		intil all safety precautions have been rea	d and understood.
P260		dust/fume/gas/mist/vapours/spray.	
P264	-	y after handling.	
P270		k or smoke when using this product.	
P272		ork clothing should not be allowed out o	of the workplace.
P273		the environment.	
P280	Wear protective	gloves/protective clothing/eye protectio	n/face protection/hearing protection.
Response			
P302 + P350	If on skin: Wash	n with plenty of water.	
P308 + P313	•	oncerned: Get medical advice/attention.	
P333 + P313		or rash occurs: Get medical advice/atter	ition.
P363	Wash contamina	ated clothing before reuse.	
Storage			
P405	Store locked up.		
Disposal			
P501	Dispose of conte	ents/container in accordance with local/r	egional/national/international regulations.
Supplemental label	-		vardship Department at +1.216.383.4019.
2.3. Other hazards	This mixture doe No 1907/2006, /		e vPvB / PBT according to Regulation (EC)
SECTION 3: Composition	n/information	on ingredients	

3.2. Mixtures

General information					
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Aluminium	71 - 87	7429-90-5 231-072-3	-	013-002-00-1	
	Classification: Aquatic Acut	e 1;H400, Aquatic	Chronic 1;H410		Т
Material name: Aluminum S	Silicon Alloy				PIS BELGIUM
2114 Version #: 04	Revision date: 21-August-2023	Print	date: 21-August-2023		2/9

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Silicon	9 - 24	7440-21-3 231-130-8	-	-	
Classifi	cation: -				
Copper	1,8 - 2,2	7440-50-8 231-159-6	01-2119480154-42-0080	-	
Classifi	cation: -				
Iron	1,6 - 2	7439-89-6 231-096-4	-	-	
Classifi	cation: STOT RE 1;	H372			
Nickel	0,7 - 1,1	7440-02-0 231-111-4	01-2119438727-29-0049	028-002-00-7	
Classifie	cation: Skin Sens. 1	l;H317, STOT SE 3	;H335, Carc. 2;H351, STOT R	E 2;H373	7,S
magnesium, powder or turning	ıs 0,5 - 0,7	7439-95-4 231-104-6	-	-	
Classifi	cation: Flam. Sol. 1	;H228, Self-heat. 2	2;H252, Water-React. 2;H261		Т
M: M-factor PBT: persistent, bioaccumulati vPvB: very persistent and very All concentrations are in percer Composition comments SECTION 4: First aid mea	bioaccumulative sul nt by weight unless The full text for all	bstance. ingredient is a gas	. Gas concentrations are in per splayed in section 16.	rcent by volume	
		a waa adda a a baa addaal	attention / advise TF avmend	ar concornad. C	
General information	advice/attention. If	f you feel unwell, s nnel are aware of t	attention/advice. IF exposed eek medical advice (show the he material(s) involved, and ta hing before reuse.	label where pos	sible). Ensure
Seneral Information	advice/attention. If that medical person themselves. Wash	f you feel unwell, s nnel are aware of t	eek medical advice (show the he material(s) involved, and ta	label where pos	sible). Ensure
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Special firefighting procedures	Water runoff can cause environmental damage.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. As supplied, this product poses no special release issues.
For emergency responders	Keep unnecessary personnel away. As supplied, this product poses no special release issues.
6.2. Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Collect spillage. The product is immiscible with water and will spread on the water surface. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers.
6.4. Reference to other sections	For personal protection, see section 8. For waste disposal, see section 13. For personal protection, see section 8 of the PIS. For waste disposal, see section 13 of the PIS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Do not empty into drains. Use appropriate container to avoid environmental contamination. Observe good industrial hygiene practices. Wear suitable gloves.
7.2. Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry place out of direct sunlight. Use appropriate container to avoid environmental contamination. Keep container tightly closed. Store in tightly closed container. Store in a dry place. Store away from incompatible materials (see Section 10 of the SDS).
7.3. Specific end use(s)	Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Belgium. Exposure Limit Values

Belgium. Exposure Limit V Components	Туре	Value	Form
Aluminium (CAS 7429-90-5)	TWA	1 mg/m3	Respirable fraction.
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0,2 mg/m3	Fume.
Nickel (CAS 7440-02-0)	TWA	1 mg/m3	
Silicon (CAS 7440-21-3)	TWA	10 mg/m3	
Biological limit values	No biological exposure limits noted for	or the ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedur	es.	
Derived no effect levels DNELs)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
8.2. Exposure controls			
Appropriate engineering controls	Good general ventilation should be u applicable, use process enclosures, lo maintain airborne levels below recom established, maintain airborne levels	ocal exhaust ventilation, or othe mended exposure limits. If ex	er engineering controls to
ndividual protection measure General information	s, such as personal protective equ Personal protection equipment should with the supplier of the personal prot	d be chosen according to the C	EN standards and in discussion

Eye/face protection	If contact is likely, safety glasses with side shields are recommended. Wear approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury is present, particularly during operations that generate dust, mist or fume.
Skin protection	
- Hand protection	Wear appropriate chemical resistant gloves. Wear gloves to prevent contact with particulate or solutions. Wear gloves to prevent metal cuts and skin abrasions during handling.
- Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Protective overgarments or work clothing must be worn by persons who may become contaminated with particulate during activities.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. When airborne exposures exceed or have the potential to exceed the occupational exposure limits, approved respirators must be used as specified by an Industrial Hygienist or other qualified professional. Respirator users must be medically evaluated to determine if they are physically capable of wearing a respirator. Quantitative and/or qualitative fit testing and respirator training must be satisfactorily completed by all personnel prior to respirator use. Users of tight fitting respirators must be clean shaven on those areas of the face where the respirator seal contacts the face. Use pressure-demand airline respirators when performing jobs with high potential exposures such as changing filters in a baghouse air cleaning device.
Thermal hazards	Not applicable.
Hygiene measures	Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid.
Colour	Silver. Grey metallic.
Odour	None.
Odour threshold	Not applicable.
рН	Not applicable.
Melting point/freezing point	> 548 °C (> 1018,4 °F) estimated / Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	None known.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit – upper (%)	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not applicable.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not applicable.

Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	
Density	2,80 g/cm3 estimated
Specific gravity	2,8 estimated

SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents. Chlorine. Fluorine.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

SECTION 11: TOXICOLOGIC	
General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of	f exposure
Inhalation	Prolonged inhalation may be harmful.
Skin contact	May cause an allergic skin reaction.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction. Dermatitis. Rash.
11.1. Information on toxicolog	jical effects
Acute toxicity	Not applicable.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation. Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitisation	Not a respiratory sensitizer. Due to partial or complete lack of data the classification is not possible
Skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Suspected of causing cancer.
IARC Monographs. Overall	Evaluation of Carcinogenicity
Nickel (CAS 7440-02-0)	2B Possibly carcinogenic to humans.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Causes damage to organs (Respiratory system) through prolonged or repeated exposure. Causes damage to organs () through prolonged or repeated exposure by inhalation.
Aspiration hazard	Not an aspiration hazard. Due to partial or complete lack of data the classification is not possible
Mixture versus substance information	No information available.
Other information	Not available.
SECTION 12: Ecological	information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic environment.

Product		Species	Test Results
Aluminum Silicon Alloy			
Aquatic			
Acute			
Fish	LC50	Fish	1,475 mg/l, 96 hours estimated
Components		Species	Test Results
Copper (CAS 7440-50-8)			
Aquatic			
Acute			
Crustacea	EC50	Blue crab (Callinectes sapidus)	0,0031 mg/l
Fish	LC50	Fathead minnow (Pimephales promelas)	0,0219 - 0,0446 mg/l, 96 hours
Nickel (CAS 7440-02-0)			
Aquatic			
Acute			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0,06 mg/l, 4 days
12.2. Persistence and degradability	No data is av	ailable on the degradability of this product.	
12.3. Bioaccumulative potential	No data avail	able.	
Partition coefficient n-octanol/water (log Kow)	Not available.		
Bioconcentration factor (BCF)	Not available.		
12.4. Mobility in soil	No data available.		
12.5. Results of PBT and vPvB assessment	This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII.		
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

ΙΑΤΑ

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

SECTION 15: Regulatory information

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Aluminium (CAS 7429-90-5) Copper (CAS 7440-50-8) Nickel (CAS 7440-02-0)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Aluminium (CAS 7429-90-5) Nickel (CAS 7440-02-0)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Aluminium (CAS 7429-90-5) Copper (CAS 7440-50-8) magnesium, powder or turnings (CAS 7439-95-4)

magnesiam, powaer or e	
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.
National regulations	According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.
	Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.
15.2. Chemical safety	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

assessment

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. CAS: Chemical Abstract Service.
CEN: European Committee for Standardization.
IATA: International Air Transport Association.
IBC: Intermediate Bulk Container.
IMDG: International Maritime Dangerous Goods.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PBT: Persistent, bioaccumulative, toxic.
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.
STEL: Short term exposure limit.
TWA: Time Weighted Average.

References Information on evaluation method leading to the classification of mixture	vPvB: Very persistent and very bioaccumulative. Not available. The classification for health and environmental hazards is derived by a combination of calculatior methods and test data, if available.
Training information	Follow training instructions when handling this material.
Further information	Transportation Emergency Call Chemtrec at: US: 800.424.9300 International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402 Chemtrec's toll free, mobile-enabled number in Germany – 0800 1817059 South Korea Toll-free Number – 080-880-0468
Disclaimer	To avoid any misunderstandings or incorrect assumptions by the receiver of the safety information, it should be made clear that the supplied information is not in the form of a Safety Data Sheet (SDS), but is actually a voluntary Product Information Sheet closely following the guidelines of the Safety Data Sheet – COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 (REACH/SDS).