Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 30.11.2014

Revision date: 05.10.2022

Version/Replaced version: 2.2/2.1

1.1.	Product identifier	ubstance/mixture and of the company/undertaking	
Produc	t form	: Mixture	
Product name		: BAM-E014 Elastomer ISO 13226 SRE-FKM/2X / ISO 6072 FKM 2	
1.2.	Relevant identified uses of the se	ubstance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
Use of the substance/mixture		: Hydraulic and automotive area	
1.2.2.	Uses advised against		
No additional information available			
1.3.	Details of the supplier of the safety data sheet		
Bundesanstalt für Materialforschung und -prüfung (BAM) Unter den Eichen 87			

12205 Berlin - Germany

T +49 (0) 30 8104-3230, -1749 - F +49 (0) 30 8104-3328 crm-elastomer@bam.de - http://www.webshop.bam.de/

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number				
Country	Organisation/Company	Address	Emergency number	
Germany	Giftnotruf der Charité Universitätsmedizin Berlin	Oranienburger Straße 285 13437 Berlin	+49 30 30686700 (German, English) only in Germany; in all other cases use the information below	

Information on national poison control centres within the EU can be found under the member states information on their national helpdesks: http://echa.europa.eu/de/support/helpdesks/national-helpdesks/list-of-national-helpdesks

Global information on poison centres can be found at the WHO homepage: http://www.who.int/gho/phe/chemical safety/poisons centres/en/

SECTION 2: Hazards identification

2.1.	Classification of the substance or mixture	
Classifi	cation according to Regulation (EC) No 1272/2008 [CLP]	
Serious	eye damage/eye irritation, Category 1	H318
Reprodu	ictive toxicity, Category 1B	H360
Hazardo	us to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Causes serious eye damage. May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.

2.2. **Label elements**

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

Not required, mixture containing elastomer which does not present a hazard to human health by inhalation, ingestion or contact with skin or to the aquatic environment. Exception to the labelling requirement according to Annex I, 1.3.4.1.

2.3. **Other hazards**

No additional information available

SECTION 3: Composition/information on ingredients

3.1. **Substances**

Not applicable

3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Carbon black	(CAS No) 1333-86-4 (EC No) 215-609-9	10 - 30	Not classified
Magnesium oxide	(CAS No) 1309-48-4 (EC No) 215-171-9	1 - 10	Not classified



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Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
Calcium dihydroxide	(CAS No) 1305-62-0 (EC No) 215-137-3	1 - < 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
4,4'-[2,2,2-trifluoro-1-(trifluoromethyl)ethylidene]diphenol	(CAS №) 1478-61-1 (EC №) 216-036-7	< 1.5	Eye Dam. 1, H318 Repr. 1B, H360 STOT RE 2, H373 Aquatic Chronic 1, H410
1-chloro-N,N-diethyl-1,1-diphenyl-1-(phenylmethyl) phosphoramine	(CAS No) 82857-68-9 (EC No) 411-370-1 (EC Index No) 015-174-00-3	< 0.5	Acute Tox. 3 (Oral), H301 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

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	: Remove to fresh air and keep at rest in a position comfortable for breathing.			
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.			
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.			
First-aid measures after ingestion	: Rinse mouth. Give 2-3 glasses of water to drink.			
4.2. Most important symptoms and effects	, both acute and delayed			
Symptoms/injuries	: May damage fertility or the unborn child.			
Symptoms/injuries after eye contact	: Causes serious eye damage.			
4.3. Indication of any immediate medical a	ttention and special treatment needed			
Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Foam. Extinguishing powder. Carbon dioxide. Water spray. Sand.			
Unsuitable extinguishing media	: Do not use a heavy water stream.			
5.2. Special hazards arising from the subs	tance or mixture			
No additional information available				
5.3. Advice for firefighters				
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: Accidental release measu	ires			
6.1. Personal precautions, protective equi				
General measures	: Avoid contact with skin and eyes. Avoid breathing dust.			
6.1.1. For non-emergency personnel				
Emergency procedures	: Evacuate unnecessary personnel.			
6.1.2. For emergency responders				
	: Equip cleanup crew with proper protection.			
Emergency procedures	: Ventilate area.			
6.2. Environmental precautions				
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.				
6.3. Methods and material for containment				
Methods for cleaning up	: On land, sweep or shovel into suitable containers. Keep in suitable, closed containers for disposal.			
6.4. Reference to other sections				

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handlii	ng and storage			
7.1. Precautions fo				
Precautions for safe hand	ling : Provide adequate ventil	lation. Avoid breathing dust. Do not handle until all safety precautions derstood. Obtain special instructions before use.		
Hygiene measures	: When using do not eat, and water before eating	drink or smoke. Wash hands and other exposed areas with mild soap g, drinking or smoking and when leaving work. Contaminated work allowed out of the workplace. Wash contaminated clothing before reus		
7.2. Conditions for	safe storage, including any incompatibilities			
Storage conditions	: Store in original contain	 Store in original container. Store in dry, cool, well-ventilated area. Store in a dark area. Keep container closed when not in use. 		
ncompatible materials	: Keep out of direct sunlig	ght. Keep away from any flames or sparking source.		
Prohibitions on mixed stor	age : Keep away from food, c	drink and animal feedingstuffs.		
7.3. Specific end us	se(s)			
No additional information				
SECTION 8: Exposi	ure controls/personal protection			
3.1. Control parame				
Magnesium oxide (130				
Ireland	Local name	Magnesium oxide		
Ireland	OEL (8 hours ref) (mg/m ³)	4 mg/m ³ respirable dust		
		5 mg/m³ fume 10 mg/m³ total inhalable dust		
Ireland	OEL (15 min ref) (mg/m ³)	10 mg/m ³ fume		
United Kingdom	Local name	Magnesium oxide (as Mg)		
United Kingdom WEL TWA (mg/m ³)		4 mg/m³ respirable dust 10 mg/m³ inhalable dust fume		
Calcium dihydroxide (1	,	Calaiura dihudaavida		
EU		Calcium dihydroxide		
EU	IOELV TWA (mg/m ³) IOELV STEL (mg/m ³)	1 mg/m ³ Respirable fraction 4 mg/m ³ Respirable fraction		
EU	Source	Commission Directive (EU) 2017/164		
Ireland	Local name	Calcium hydroxide		
Ireland	OEL (8 hours ref) (mg/m ³)	1 mg/m³ (R)		
Ireland	OEL (15 min ref) (mg/m ³)	4 mg/m ³ (R)		
Ireland	Notes (IE)	IOELV		
Malta	Local name	Calcium dihydroxide		
Malta	OEL TWA (mg/m ³)	1 mg/m ³ Respirable fraction		
Malta	OEL STEL (mg/m ³)	4 mg/m ³ Respirable fraction		
United Kingdom	Local name	Calcium hydroxide		
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³		
United Kingdom	OEL TWA (mg/m ³)	1 mg/m ³ Respirable fraction		
United Kingdom	OEL STEL (mg/m ³)	4 mg/m ³ Respirable fraction		
Carbon black (1333-86-	-4)			
Ireland	Local name	Carbon black		
Ireland	OEL (8 hours ref) (mg/m ³)	3 mg/m³ (I)		
United Kingdom	Local name	Carbon black		
United Kingdom	WEL TWA (mg/m ³)	3.5 mg/m ³		
United Kingdom	WEL STEL (mg/m ³)	7 mg/m ³		
Exposure limit values fo	r the other components			
Hydrogen fluoride (766				
EU	Local name	Hydrogen fluoride		
EU	IOELV TWA (mg/m ³)	1.5 mg/m ³		
FU	IOFLV TWA (ppm)	1 8 ppm		

EU	Local name	Hydrogen fluoride
EU	IOELV TWA (mg/m ³)	1.5 mg/m ³
EU	IOELV TWA (ppm)	1.8 ppm
EU	IOELV STEL (mg/m ³)	2.5 mg/m ³
EU	IOELV STEL (ppm)	3 ppm
EU	Source	Commission Directive 2000/39/EC
Ireland	Local name	Hydrogen fluoride (as F)
Ireland	OEL (8 hours ref) (mg/m ³)	1.5 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	1.8 ppm

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Hydrogen fluoride (7664-39-3)				
Ireland	OEL (15 min ref) (mg/m ³)	2.5 mg/m ³		
Ireland	OEL (15 min ref) (ppm)	3 ppm		
Ireland	Notes (IE)	Sk, IOELV		
Malta	Local name	Hydrogenfluoride		
Malta	OEL TWA (mg/m ³)	1.5 mg/m ³		
Malta	OEL TWA (ppm)	1.8 ppm		
Malta	OEL STEL (mg/m ³)	2.5 mg/m ³		
Malta	OEL STEL (ppm)	3 ppm		
United Kingdom	Local name	Hydrogen fluoride (as F)		
United Kingdom	WEL TWA (mg/m ³)	1.5 mg/m ³		
United Kingdom	WEL TWA (ppm)	1.8 ppm		
United Kingdom	WEL STEL (mg/m ³)	2.5 mg/m ³		
United Kingdom	WEL STEL (ppm)	3 ppm		
Carbonyl difluoride (353-50-	4)			
Ireland	Local name	Carbonyl fluoride		
Ireland	OEL (8 hours ref) (mg/m ³)	5.4 mg/m ³		
Ireland	OEL (8 hours ref) (ppm)	2 ppm		
Ireland	OEL (15 min ref) (mg/m³)	13 mg/m ³		
Ireland	OEL (15 min ref) (ppm)	5 ppm		
8.2. Exposure controls				
Appropriate engineering controls : Provide local exhaust or general room ventilation.				
Hand protection : Wear suitable gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Latex. Nitrile rubber. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.				
Eye protection	: Chemical goggles or safety glasses	Chemical goggles or safety glasses (EN 166).		
Skin and body protection	: Wear suitable protective clothing.	Wear suitable protective clothing.		
Respiratory protection	: In case of inadequate ventilation we P1.	In case of inadequate ventilation wear respiratory protection. Dust/aerosol mask with filter type P1.		

: Avoid release to the environment.

Environmental exposure controls	
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties		
Physical state	: Solid	
Colour	: Black	
Odour	: Odourless	
Melting point/freezing point	: No data available	
Boiling point or initial boiling point and boiling range	: No data available	
Flammability	: Non flammable	
Lower and upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
рН	: No data available	
Kinematic viscosity	: Not applicable	
Solubility	: No data available	
Partition coefficient n-octanol/water (log value)	: Not applicable	
Vapour pressure	: No data available	
Density and/or relative density	: 1.82 – 1.88 g/cm³ (ISO 2781, ISO 6072) 1.83 – 1.87 g/cm³ (ISO 2781, ISO 13226)	
Relative vapour density	: Not applicable	
Particle characteristics	: No data available	
9.2. Other information		
Hardness	: 70 ± 3 IRHD (ISO 48-4)	
Tensile strength	: 12 MPa min. (ISO 37, ISO 6072) 12 – 18 MPa (ISO 37, ISO 13226)	
Elongation at break	: 250 % min. (ISO 37, ISO 6072) 250 – 330 MPa (ISO 37, ISO 13226)	

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SECTION 10: Stability and reactivity			
10.1. Reactivity			
No dangerous reactions known.			
10.2. Chemical stability			
Stable under use and storage conditions as recom	mended in section 7.		
10.3. Possibility of hazardous reactions			
No dangerous reactions known under normal cond	litions of use.		
10.4. Conditions to avoid			
Extremely high or low temperatures.			
10.5. Incompatible materials			
No additional information available			
10.6. Hazardous decomposition products			
Fume. Carbon monoxide. Carbon dioxide.			
SECTION 11: Toxicological informatic	n		
11.1. Information on hazard classes as defi	ned in Regulation (EC) No 1272/2008		
Acute toxicity	: Not classified		
	Based on available data, the classification criteria are not met		
Carbon black (1333-86-4)			
LD50 oral rat	> 8000 mg/kg		
Magnesium oxide (1309-48-4)			
LD50 oral rat	> 5000 mg/kg		
Calcium dihydroxide (1305-62-0)			
LD50 oral rat LD50 dermal rabbit	> 2000 mg/kg (OECD 425) > 2500 mg/kg (OECD 402)		
Skin corrosion/irritation	: Not classified Based on available data, the classification criteria are not met		
Serious eye damage/irritation	: Causes serious eye damage.		
Respiratory or skin sensitisation	: Not classified		
. ,	Based on available data, the classification criteria are not met		
Germ cell mutagenicity	: Not classified		
	Based on available data, the classification criteria are not met		
Carcinogenicity	: Not classified		
	Based on available data, the classification criteria are not met		
Reproductive toxicity Specific target organ toxicity (single exposure)	: May damage fertility or the unborn child. : Not classified		
Specific target organ toxicity (single exposure)	Based on available data, the classification criteria are not met		
Specific target organ toxicity (repeated exposure)			
	Based on available data, the classification criteria are not met		
Carbon black (1333-86-4)			
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	1.1 mg/m³/6h		
Aspiration hazard	: Not classified		
	Based on available data, the classification criteria are not met		
11.2. Information on other hazards			
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met		
SECTION 12: Ecological information			
12.1. Toxicity			
Acute aquatic toxicity	: Not classified		
Chronic aquatic toxicity	: Harmful to aquatic life with long lasting effects.		
Carbon black (1333-86-4)			
LC50 fishes	> 1000 mg/l 96 h, Danio rerio (OECD 203)		
EC50 daphnia	> 5600 mg/l 24 h, Daphnia magna (OECD 202)		
ErC50 algae	> 10000 mg/l 72 h, Scenedesmus subspicatus (OECD 201)		
NOEC algae	> 10000 mg/l 72 h, Scenedesmus subspicatus (OECD 201)		
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Calcium dihydroxide (1305-62-0)	
LC50 fishes	50.6 mg/l 96 h, Oncorhynchus mykiss (OECD 203)
EC50 daphnia	49.1 mg/l 48 h, Daphnia magna (OECD 202)
ErC50 algae	184.57 mg/l 72 h, Pseudokirchneriella subcapitata (OECD 201)
NOEC crustacea	32 mg/l 14 d, Crangon septemspinosa
12.2. Persistence and degradability	
BAM-E014 Elastomer ISO 13226 SRE-FKM/2X	/ ISO 6072 FKM 2
Persistence and degradability	Not established.
Calcium dihydroxide (1305-62-0)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
BAM-E014 Elastomer ISO 13226 SRE-FKM/2X	/ ISO 6072 EKM 2
Bioaccumulative potential	Not established.
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Calcium dihydroxide (1305-62-0) Bioaccumulative potential	Not established.
	NUL ESTADIISTICU.
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmen	t
No additional information available	
12.6. Endocrine disrupting properties	
No additional information available	
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Do not dispose of with domestic waste. Do not empty into drains. This material and its containe
	must be disposed of in a safe way.
European List of Waste (LoW) code	: 07 02 13 - waste plastic
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA	
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
Not applicable	
14.3. Transport hazard class(es)	
Not applicable	
14.4. Packing group	
Not applicable	
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	
Other information	: No supplementary information available.
14.6. Special precautions for user	
No additional information available	
14.7. Maritime transport in bulk according	to IMO instruments
Not applicable	
SECTION 15: Regulatory information	
	ulationa/lagiolation apositio for the substance or minture
	ulations/legislation specific for the substance or mixture
15.1.1. EU-Regulations	
Contains no substance on the REACH candidate I	Ist
Contains no REACH Annex XIV substances	

Contains no REACH Annex XIV substances

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information	
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 and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Changes compared to the previous version	: Section 1.4. Section 2.2.

Abbreviations and acronyms:

European Agreement concerning the International Carriage of Dangerous Goods by Road
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
Derived Minimal Effect Level
Derived No-Effect Level
The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
International Air Transport Association
"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
Lethal Dose to 50% of a test population (Median Lethal Dose)
Lowest Observed Adverse Effect Level
No Observed Adverse Effect Concentration/Level
No Observed Effect Concentration/Level
Organisation for Economic Cooperation and Development
Persistent, Bioaccumulative and Toxic substance
Predicted No-Effect Concentration
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
Safety Data Sheet
Sewage Treatment Plant
Unique Formula Identifier
Very Persistent and Very Bioaccumulative

Full text of H- and EUH-phrases:

- •	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H360	May damage fertility or the unborn child
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects

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.