Safety Data Sheet (UK REACH) (GB) spheres Article number 26668, 26673, 26674

Ferdinand Bilstein GmbH + Co. KG

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SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	Product identifier		
		spheres Article number: 26668, 26673, 26674	
1.2	Relevant identified uses of the se	ubstance or mixture and uses advised against	
1.2.1	I Relevant uses		
		Hydraulic accumulators	
1.2.2	2 Uses advised against		
	Ū	None known.	
1.3	Details of the supplier of the safe	atv data sheet	
1.5		-	
	Company	Ferdinand Bilstein GmbH + Co. KG Wilhelmstr. 47	
		58256 Ennepetal / GERMANY	
		Phone +49 2333 911-0	
		Fax +49 2333 911-444 Homepage www.febi.com	
		E-mail info@febi.com	
	Address enquiries to		
	Technical information	info@febi.com	
	Safety Data Sheet	info@febi.com	
1.4	Emergency telephone number		
	Advisory body	+49 (0)89-19240 (24h) (English)	
SEC	TION 2: Hazards identification		
2.1	Classification of the substance of	or mixture [REGULATION (GB) CLP]	
		Press. Gas (Compressed gas): H280 Contains gas under pressure; may explode if heated.	
2.2	Label elements		
		This product is an article and therefore it does not require labelling according to directives REACH/CLP.	
2.3	Other hazards		
		none	
		The contained dangerous materials are not freely available with foreseeable use.	
	Physico-chemical hazards	This accumulator is a cylinder containing nitrogen, a colorless inert gas under pressure. Do not rupture, open or disassemble this accumulator. Do not expose the accumulator to direct flame or heat.	
	Environmental hazards	Does not contain any PBT or vPvB substances.	
	Other hazards	Further hazards were not determined with the current level of knowledge.	
SEC	SECTION 3: Composition / Information on ingredients		

3.1 Substances

not applicable

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3.2 Mixtures

	The product is an article.		
Range [%] Substance 80 - 100 Nitrogen CAS: 7727-37-9, EINECS/ELINCS: 231-783-9 CHS/CLP: Press, Cas (Compressed cas): H280			
	GHS/CLP: Press. Gas (Compressed gas): H280		
	Comment on component parts	The concentrations of the ingredients are valid for containig gases. They are not for the complete system. The contained dangerous materials are not freely available with foreseeable use. Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%. For full text of H-statements: see SECTION 16.	
SEC	TION 4: First aid measures		
.1	Description of first aid measure	25	
	General information	none The contained dangerous materials are not freely available with foreseeable use.	
	Inhalation	Not required under normal conditions.	
	Skin contact	Not required under normal conditions.	
	Eye contact	Not required under normal conditions.	
	Ingestion	Not required under normal conditions.	
.2	Most important symptoms and	effects, both acute and delayed	
		None known.	
.3	Indication of any immediate me	edical attention and special treatment needed	
		Treat symptomatically.	
3EC	TION 5: Fire-fighting measures		
5.1	Extinguishing media		
	Suitable extinguishing media	Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.	
	Extinguishing media that must not be used	none	
	Special hazards arising from the substance or mixture		
i.2	Special hazards arising from the	e substance or mixture	
.2	Special hazards arising from the	e substance or mixture Bursting Containers can be forcibly projected from a fire.	
5.2 5.3	Special hazards arising from th Advice for firefighters		
		Bursting Containers can be forcibly projected from a fire.	
5.3		Bursting Containers can be forcibly projected from a fire. Not required under normal conditions. Cool containers at risk with water spray jet.	
5.3 SEC	Advice for firefighters TION 6: Accidental release meas	Bursting Containers can be forcibly projected from a fire. Not required under normal conditions. Cool containers at risk with water spray jet.	
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5.3 SEC	Advice for firefighters TION 6: Accidental release meas Personal precautions, protectiv	Bursting Containers can be forcibly projected from a fire. Not required under normal conditions. Cool containers at risk with water spray jet. Sures re equipment and emergency procedures	
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5.3 SEC 5.1	Advice for firefighters TION 6: Accidental release meas Personal precautions, protectiv	Bursting Containers can be forcibly projected from a fire. Not required under normal conditions. Cool containers at risk with water spray jet. sures ve equipment and emergency procedures Not required under normal conditions. Do not discharge into the drains/surface waters/groundwater.	

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6.4	5.4 Reference to other sections	
		See SECTION 8+13
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
	· · ·	No dangerous reactions known if used as directed.
		Wash hands before breaks and after work.
7.2	Conditions for safe storage, inclu	ding any incompatibilities
		Keep away from acids
		Do not store together with oxidizing agents.
		Keep in a cool place.
		Protect from heat/overheating and from sun.
7.3	Specific end use(s)	
		See product use, SECTION 1.2
SEC	TION 8: Exposure controls / perso	nal protection
8.1	Control parameters	
	Ingredients with occupational exposure limits to be monitored (GB)	
	exposure minis to be monitored (GB)	not relevant
8.2	Exposure controls	
	Additional advice on system design	No special measures necessary.
	Eye protection	Not required under normal conditions.
	Hand protection	Not required under normal conditions.
	Skin protection	Protective clothing (EN 340)
	Other	
	Respiratory protection	Not required under normal conditions.
	Thermal hazards	none
	Delimitation and monitoring of the environmental exposition	none

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

	internation on baole physical and	enennear properties
	Physical state	compressed gas
	Color	colourless
	Odor	odourless
	Odour threshold	not applicable
	pH-value	not applicable
	pH-value [1%]	not applicable
	Boiling point [°C]	not relevant
	Flash point [°C]	not applicable
	Flammability (solid, gas) [°C]	no
	Lower explosion limit	not applicable
	Upper explosion limit	not applicable
	Oxidising properties	no
	Vapour pressure/gas pressure [kPa]	No information available.
	Density [g/cm³]	No information available.
	Relative density	not determined
	Bulk density [kg/m³]	not applicable
	Solubility in water	insoluble
	Solubility other solvents	No information available.
	Partition coefficient [n-octanol/water]	not relevant
	Kinematic viscosity	not applicable
	Relative vapour density	not applicable
	Evaporation speed	not applicable
	Melting point [°C]	not relevant
	Auto-ignition temperature	not applicable
	Decomposition temperature [°C]	not applicable
	Particle characteristics	No information available.
,	Other information	

9.2 Other information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

none

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10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute oral toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.

Acute inhalational toxicity

Product inhalative, Based on the available information, the classification criteria are not fulfilled.

	Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
	Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
	Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
	Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
	Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
	Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
	Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
	Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
	Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
	General remarks	
		The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.
11.2	Information on other hazards	
	Endocrine disrupting properties	Contains no ingredients with endocrine-disrupting properties.
	Other information	

SECTION 12: Ecological information

12.1 Toxicity

Product

Based on the available information, the classification criteria are not fulfilled.

12.2 Persistence and degradability

Behaviour in environment compartments	
Behaviour in sewage plant	not determined
Biological degradability	not determined

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12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

not applicable

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

	For recycling, consult manufacturer.
Waste no. (recommended)	160505
Contaminated packaging	
	Uncontaminated packaging may be taken for recycling.
Waste no. (recommended)	150103

SECTION 14: Transport information

14.1	UN number or ID number Transport by land according to ADR/RID	3164
	Inland navigation (ADN)	3164
	Marine transport in accordance with IMDG	3164

Air transport in accordance with IATA 3164

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14.2	UN proper shipping name	
	Transport by land according to ADR/RID	To the regulations ADR is not subject after special regulation 594
	Inland navigation (ADN)	To the regulations ADR is not subject after special regulation 594
	Marine transport in accordance with IMDG	To the regulations IMDG is not subject after special regulation 283
	Air transport in accordance with IATA	Articles, pressurized, pneumatic
	- Label	
14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	2
14.4	Packing group	
	Transport by land according to ADR/RID	not applicable
	Inland navigation (ADN)	not applicable
	Marine transport in accordance with IMDG	not applicable
	Air transport in accordance with IATA	not applicable
14.5	Environmental hazards	
	Transport by land according to ADR/RID	no
	Inland navigation (ADN)	no
	Marine transport in accordance with IMDG	no
	Air transport in accordance with IATA	no
14.6	Special precautions for user	

Relevant information under SECTION 6 to 8.

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14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	EEC-REGULATIONS	2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
	TRANSPORT-REGULATIONS	ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
	- Observe employment restrictions for people	none
	- VOC (2010/75/CE)	0%
15.2	15.2 Chemical safety assessment	
		not applicable
SECTION 16: Other information		

16.1 Hazard statements (SECTION 3)

H280 Contains gas under pressure; may explode if heated.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average

TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Press. Gas (Compressed gas): H280 Contains gas under pressure; may explode if heated. (On basis of test data)

Modified position

none