

SAFETY DATA SHEET

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

SECTION 1: Identification	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Trade name or designation of the mixture	Gap Pads Products
Registration number	
Synonyms	None.
Product code	Gap Pad 1000HD, 1500, 2500, 1450, 1500S30, 2000S40, 500035, 2500S20, 3000S30, 3500ULM, HC1000, A2000, A3000, HC 3.0 VO, VO Soft, VO Ultrasoft, VO Ultrasoft-Black, VO Ultrasoft-AB, VO Ultimate
Issue date	20-October-2014
Version number	02
Revision date	07-August-2015
Supersedes date	20-October-2014
1.2. Relevant identified uses of t Identified uses	he substance or mixture and uses advised against Thermally Conductive Silicone Pad.
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Manufacturer/Supplier	The Bergquist Company
Address:	18930 West 78th Street
	Chanhassen, MN. 55317
Non-Emergency calls:	1-800-347-4572
Contact person:	AEHMSDS@henkel.com
1.4. Emergency telephone number	
Chemical Emergency Call CHEMTREC Day or	
Night	
Within USA and Canada:	1-800-424-9300
Outside USA and Canada:	+1 703-527-3887 (Collect Calls Accepted)
SECTION 2: Hazards ident	ification
2.1. Classification of the substar The mixture has been assesse applies.	nce or mixture ed and/or tested for its physical, health and environmental hazards and the following classification
Classification according to Regu	ulation (EC) No 1272/2008 as amended
This mixture does not meet the	e criteria for classification according to Regulation (EC) 1272/2008 as amended.
Hazard summary	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
2.2. Label elements	
Label according to Regulation (B	EC) No. 1272/2008 as amended
Hazard pictograms	None.
Signal word	Not applicable.
Hazard statements	Not applicable.
Precautionary statements	
Prevention	Observe good industrial hygiene practices.
Response	Wash thoroughly after handling.
Storage	Store away from incompatible materials.

Diage Diore away non incompanion materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Supplemental label information This product is not hazardous according to Regulation (EC) No 1272/2008 as amended, therefore a hazard label does not apply.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

SECTION 4: First aid measures General information Get medical attention if any discomfort develops. 4.1. Description of first aid measures Inhalation Move to fresh air. Get medical attention if symptoms occur. Skin contact Wash skin with soap and water. Get medical attention if irritation persists after washing. Eve contact Flush thoroughly with water. If irritation occurs, get medical assistance. Ingestion Rinse mouth thoroughly. Get medical attention if any discomfort occurs. Under normal conditions of intended use, this material does not pose a risk to health. 4.2. Most important symptoms and effects, both acute and delayed Treat symptomatically. 4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards	This product is not flammable.
5.1. Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	None known.
5.2. Special hazards arising from the substance or mixture	None.
5.3. Advice for firefighters	
Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Special fire fighting procedures	Move containers from fire area if you can do so without risk.

SECTION 6: Accidental release measures

For non-emergency personnel	Avoid contact with skin and eyes.
For emergency responders	Keep unnecessary personnel away.
6.2. Environmental precautions	Environmental manager must be informed of all major spillages.
6.3. Methods and material for containment and cleaning up	Sweep up or gather material and place in appropriate container for disposal.
6.4. Reference to other sections	For personal protection, see Section 8 of the SDS. For waste disposal, see Section 13 of the SDS.

7.1. Precautions for safe handling	Provide adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Observe good industrial hygiene practices. Wear appropriate personal protective equipment (See Section 8).
7.2. Conditions for safe storage, including any incompatibilities	Store in closed original container in a dry place. Store away from incompatible materials.
7.3. Specific end use(s)	Thermally Conductive Silicone Pad.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List

Components	Туре	Value	Form
Iluminium hydroxide (CAS 1645-51-2)	МАК	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fraction.
Aluminium oxide (CAS 1344-28-1)	MAK	5 mg/m3	Respirable fume.
		5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fume.
		10 mg/m3	Respirable fraction.
Belgium. Exposure Limit Values.			
Components	Туре	Value	Form
Aluminium oxide (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Bulgaria. OELs. Regulation No 13	on protection of workers aga	inst risks of exposure to cher	nical agents at work
Components	Туре	Value	Form
Aluminium nitride (CAS 24304-00-5)	TWA	2 mg/m3	
Aluminium oxide (CAS	TWA	10 mg/m3	Dust.
1344-28-1)		1,5 mg/m3	Respirable fraction.
Croatia. Dangerous Substance Ex	posure Limit Values in the We	orkplace (ELVs), Annexes 1 a	nd 2, Narodne Novine, 13
Components	Туре	Value	Form
Aluminium oxide (CAS	MAC	4 mg/m3	Respirable dust.
		11119/1110	
1344-28-1)		C C	
	ent Decree 361	10 mg/m3	Total dust.
Czech Republic. OELs. Governme	ent Decree 361 Type	C C	
Czech Republic. OELs. Governme Components Aluminium oxide (CAS		10 mg/m3	Total dust.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1)	Туре	10 mg/m3 Value	Total dust. Form
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values	Type TWA	10 mg/m3 Value 0,1 mg/m3	Total dust. Form Respirable dust.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components	Type TWA Type	10 mg/m3 Value 0,1 mg/m3 Value	Total dust. Form Respirable dust. Form
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS	Type TWA	10 mg/m3 Value 0,1 mg/m3	Total dust. Form Respirable dust.
1344-28-1) Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1)	Type TWA Type	10 mg/m3 Value 0,1 mg/m3 Value	Total dust. Form Respirable dust. Form
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo	Type TWA Type TLV	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3	Total dust. Form Respirable dust. Form Total Respirable.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001)	Type TWA Type TLV	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3	Total dust. Form Respirable dust. Form Total Respirable.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001) Components Aluminium nitride (CAS	Type TWA Type TLV osure Limits of Hazardous Su	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulation	Total dust. Form Respirable dust. Form Total Respirable. on No. 293 of 18 Septemb
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001) Components Aluminium nitride (CAS 24304-00-5)	Type TWA Type TLV osure Limits of Hazardous Su Type TWA	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulation Value 2 mg/m3	Total dust. Form Respirable dust. Form Total Respirable. on No. 293 of 18 Septemb Form
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS	Type TWA Type TLV osure Limits of Hazardous Su Type	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulation Value 2 mg/m3 4 mg/m3	Total dust. Form Respirable dust. Form Total Respirable. on No. 293 of 18 Septemb Form Respirable dust.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001) Components Aluminium nitride (CAS 24304-00-5) Aluminium oxide (CAS 1344-28-1)	Type TWA TLV Desure Limits of Hazardous Su Type TWA TWA	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulation Value 2 mg/m3	Total dust. Form Respirable dust. Form Total Respirable. on No. 293 of 18 Septemb Form
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Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001) Components Aluminium nitride (CAS 24304-00-5) Aluminium oxide (CAS 24304-00-5) Aluminium oxide (CAS 1344-28-1) Finland. Workplace Exposure Lime Components	Type Type TLV Desure Limits of Hazardous Su Type TWA TYPE TYPE	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulations) Value 2 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3	Total dust. Form Respirable dust. Form Total Respirable. on No. 293 of 18 Septemb Form Respirable dust.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001) Components Aluminium nitride (CAS 24304-00-5) Aluminium oxide (CAS 1344-28-1)	Type Type TLV Desure Limits of Hazardous Su Type TWA	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulation Value 2 mg/m3 4 mg/m3 10 mg/m3	Total dust. Form Respirable dust. Form Total Respirable. on No. 293 of 18 Septemb Form Respirable dust.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001) Components Aluminium nitride (CAS 24304-00-5) Aluminium oxide (CAS 1344-28-1) Finland. Workplace Exposure Lime Components Aluminium nitride (CAS 24304-00-5)	Type Tuka Type TLV osure Limits of Hazardous Su Type TWA TWA	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulation Value 2 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3	Total dust. Form Respirable dust. Form Total Respirable. Form Respirable dust. Total dust. Total dust.
Czech Republic. OELs. Governme Components Aluminium oxide (CAS 1344-28-1) Denmark. Exposure Limit Values Components Aluminium oxide (CAS 1344-28-1) Estonia. OELs. Occupational Expo 2001) Components Aluminium nitride (CAS 24304-00-5) Aluminium oxide (CAS 1344-28-1) Finland. Workplace Exposure Lime Components Aluminium nitride (CAS	Type Tuka Type TLV osure Limits of Hazardous Su Type TWA TWA	10 mg/m3 Value 0,1 mg/m3 Value 5 mg/m3 2 mg/m3 bstances. (Annex of Regulation Value 2 mg/m3 4 mg/m3 10 mg/m3 10 mg/m3	Total dust. Form Respirable dust. Form Total Respirable. Form Respirable dust. Total dust. Total dust.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	Form
luminium hydroxide (CAS 1645-51-2)	TWA	4 mg/m3	Inhalable dust.
		1,5 mg/m3	Respirable dust.
luminium oxide (CAS 344-28-1)	TWA	4 mg/m3	Inhalable dust.
		1,5 mg/m3	Respirable dust.
ermany. TRGS 900, Limit Values	s in the Ambient Air at the Wor	rkplace	
components	Туре	Value	Form
luminium hydroxide (CAS 1645-51-2)	AGW	10 mg/m3	Inhalable fraction.
Aluminium oxide (CAS	AGW	1,25 mg/m3 10 mg/m3	Respirable fraction.
344-28-1)		-	
		1,25 mg/m3	Respirable fraction.
reece. OELs (Decree No. 90/199	9, as amended)		
omponents	Туре	Value	Form
luminium oxide (CAS	TWA	5 mg/m3	Inhalable
344-28-1)		10 mg/m3	Respirable.
ungary. OELs. Joint Decree on (Chemical Safety of Workplaces	-	
omponents	Туре	Value	Form
luminium oxide (CAS 344-28-1)	TWA	6 mg/m3	Respirable.
eland. OELs. Regulation 154/19	99 on occupational exposure I	imits	
omponents	Туре	Value	
luminium nitride (CAS	TWA	2 mg/m3	
4304-00-5) Iuminium oxide (CAS 344-28-1)	TWA	10 mg/m3	
eland. Occupational Exposure L	imits		
omponents	Туре	Value	Form
luminium oxide (CAS	TWA	4 mg/m3	Respirable dust.
344-28-1)		10 mg/m3	Total inhalable dust.
aly. OELs		5	
			_
omponents	Туре	Value	Form
luminium hydroxide (CAS	Type TWA	Value 1 mg/m3	Form Respirable fraction.
luminium hydroxide (CAS 1645-51-2) Iuminium nitride (CAS			
luminium hydroxide (CAS 1645-51-2) Iuminium nitride (CAS 4304-00-5) Iuminium oxide (CAS	TWA	1 mg/m3	Respirable fraction.
luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1)	TWA TWA TWA	1 mg/m3 1 mg/m3 1 mg/m3	Respirable fraction. Respirable fraction. Respirable fraction.
luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1) atvia. OELs. Occupational expos	TWA TWA TWA	1 mg/m3 1 mg/m3 1 mg/m3	Respirable fraction. Respirable fraction. Respirable fraction.
luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1) atvia. OELs. Occupational expos omponents luminium hydroxide (CAS	TWA TWA TWA Sure limit values of chemical s	1 mg/m3 1 mg/m3 1 mg/m3 substances in work environme	Respirable fraction. Respirable fraction. Respirable fraction.
luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1) atvia. OELs. Occupational expos omponents luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS	TWA TWA TWA sure limit values of chemical s Type	1 mg/m3 1 mg/m3 1 mg/m3 substances in work environme Value	Respirable fraction. Respirable fraction. Respirable fraction.
luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1) atvia. OELs. Occupational expos omponents luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS	TWA TWA TWA sure limit values of chemical s Type TWA	1 mg/m3 1 mg/m3 1 mg/m3 substances in work environme <u>Value</u> 6 mg/m3	Respirable fraction. Respirable fraction. Respirable fraction. nt Form
luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1) atvia. OELs. Occupational expos omponents luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS	TWA TWA TWA Sure limit values of chemical s Type TWA TWA	1 mg/m3 1 mg/m3 1 mg/m3 ubstances in work environme Value 6 mg/m3 6 mg/m3 6 mg/m3	Respirable fraction. Respirable fraction. Respirable fraction. nt Form
luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1) atvia. OELs. Occupational expos omponents luminium hydroxide (CAS 1645-51-2) luminium nitride (CAS 4304-00-5) luminium oxide (CAS 344-28-1)	TWA TWA TWA Sure limit values of chemical s Type TWA TWA TWA	1 mg/m3 1 mg/m3 1 mg/m3 substances in work environme Value 6 mg/m3 6 mg/m3 4 mg/m3	Respirable fraction. Respirable fraction. Respirable fraction. nt Form Decomposition aerosol
Components Juminium hydroxide (CAS 1645-51-2) Juminium nitride (CAS 4304-00-5) Juminium oxide (CAS 344-28-1) atvia. OELs. Occupational expose Components Juminium hydroxide (CAS 1645-51-2) Juminium nitride (CAS 4304-00-5) Juminium oxide (CAS 344-28-1) ithuania. OELs. Limit Values for Components	TWA TWA TWA Sure limit values of chemical s Type TWA TWA TWA	1 mg/m3 1 mg/m3 1 mg/m3 substances in work environme Value 6 mg/m3 6 mg/m3 4 mg/m3	Respirable fraction. Respirable fraction. Respirable fraction. nt Form

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Туре	Value	Form
Aluminium nitride (CAS 24304-00-5)	TWA	6 mg/m3	
luminium oxide (CAS 344-28-1)	TWA	5 mg/m3	Inhalable fraction.
		2 mg/m3	Respirable fraction.
lorway. Administrative Norms fo	_		
Components	Туре	Value	
Aluminium oxide (CAS 344-28-1)	TLV	10 mg/m3	
Poland. MACs. Minister of Labour Norking Environment	r and Social Policy Regarding	Maximum Allowable Concent	rations and Intensities in
Components	Туре	Value	Form
Numinium hydroxide (CAS	TWA	2,5 mg/m3	Inhalable fraction.
1645-51-2)			
		1,2 mg/m3	Respirable fraction.
luminium oxide (CAS 344-28-1)	TWA	2,5 mg/m3	Inhalable fraction.
		1,2 mg/m3	Respirable fraction.
ortugal. VLEs. Norm on occupat			
components	Туре	Value	
luminium oxide (CAS 344-28-1)	TWA	10 mg/m3	
omania. OELs. Protection of wo	rkers from exposure to chemi	cal agents at the workplace	
omponents	Туре	Value	Form
Aluminium oxide (CAS 1344-28-1)	STEL	5 mg/m3	Aerosol
J++-20-1)			
0++-20-1)		1,2 ppm	Aerosol
5++-20-1)	TWA	2 mg/m3	Aerosol
5 44 °20°1)	TWA		
Slovakia. OELs. Decree of the gov		2 mg/m3 0,5 ppm	Aerosol Aerosol
lovakia. OELs. Decree of the gov gents	vernment of the Slovak Repub	2 mg/m3 0,5 ppm Ilic concerning protection of I	Aerosol Aerosol
lovakia. OELs. Decree of the gov gents components	vernment of the Slovak Repub Type	2 mg/m3 0,5 ppm Ilic concerning protection of H Value	Aerosol Aerosol nealth in work with chem Form
Slovakia. OELs. Decree of the gov gents Components Iuminium hydroxide (CAS	vernment of the Slovak Repub	2 mg/m3 0,5 ppm lic concerning protection of H Value 4 mg/m3	Aerosol Aerosol nealth in work with chem
Slovakia. OELs. Decree of the gov gents Components Iuminium hydroxide (CAS	vernment of the Slovak Repub Type TWA	2 mg/m3 0,5 ppm blic concerning protection of t Value 4 mg/m3 1,5 mg/m3	Aerosol Aerosol nealth in work with chem Form
Slovakia. OELs. Decree of the gov igents Components Numinium hydroxide (CAS 1645-51-2)	vernment of the Slovak Repub Type	2 mg/m3 0,5 ppm lic concerning protection of H Value 4 mg/m3	Aerosol Aerosol nealth in work with chem Form Inhalable fraction.
Slovakia. OELs. Decree of the gov agents Components Aluminium hydroxide (CAS 21645-51-2)	vernment of the Slovak Repub Type TWA	2 mg/m3 0,5 ppm blic concerning protection of t Value 4 mg/m3 1,5 mg/m3 4 mg/m3	Aerosol Aerosol health in work with chem Form Inhalable fraction. Respirable fraction. Inhalable fraction.
lovakia. OELs. Decree of the gov gents components luminium hydroxide (CAS 1645-51-2) luminium oxide (CAS	vernment of the Slovak Repub Type TWA	2 mg/m3 0,5 ppm blic concerning protection of b Value 4 mg/m3 1,5 mg/m3 4 mg/m3 1,5 mg/m3	Aerosol Aerosol nealth in work with chem Form Inhalable fraction. Respirable fraction.
Slovakia. OELs. Decree of the gov gents Components Iluminium hydroxide (CAS 1645-51-2) Iluminium oxide (CAS 344-28-1)	vernment of the Slovak Repub Type TWA TWA	2 mg/m3 0,5 ppm blic concerning protection of t Value 4 mg/m3 1,5 mg/m3 4 mg/m3	Aerosol Aerosol health in work with chem Form Inhalable fraction. Respirable fraction. Inhalable fraction.
Slovakia. OELs. Decree of the gov agents Components Aluminium hydroxide (CAS 21645-51-2) Aluminium oxide (CAS 344-28-1) Spain. Occupational Exposure Lin	vernment of the Slovak Repub Type TWA TWA	2 mg/m3 0,5 ppm blic concerning protection of b Value 4 mg/m3 1,5 mg/m3 4 mg/m3 1,5 mg/m3	Aerosol Aerosol health in work with chem Form Inhalable fraction. Respirable fraction. Inhalable fraction.
Slovakia. OELs. Decree of the gov gents Components Juminium hydroxide (CAS 1645-51-2) Juminium oxide (CAS 344-28-1) Spain. Occupational Exposure Lin Components	vernment of the Slovak Repub Type TWA TWA TWA TWA	2 mg/m3 0,5 ppm blic concerning protection of H 4 mg/m3 1,5 mg/m3 4 mg/m3 1,5 mg/m3 0,1 mg/m3 0,1 mg/m3	Aerosol Aerosol health in work with chem Form Inhalable fraction. Respirable fraction. Inhalable fraction.
Slovakia. OELs. Decree of the gov agents Components Aluminium hydroxide (CAS 21645-51-2) Aluminium oxide (CAS 344-28-1) Spain. Occupational Exposure Lin Components Aluminium oxide (CAS 344-28-1)	vernment of the Slovak Repub	2 mg/m3 0,5 ppm blic concerning protection of b Value 4 mg/m3 1,5 mg/m3 4 mg/m3 1,5 mg/m3 0,1 mg/m3	Aerosol Aerosol health in work with chem Form Inhalable fraction. Respirable fraction. Inhalable fraction.
Slovakia. OELs. Decree of the gov gents Components Juminium hydroxide (CAS 1645-51-2) Juminium oxide (CAS 344-28-1) Spain. Occupational Exposure Lin Components Juminium oxide (CAS 344-28-1) Sweden. Occupational Exposure	vernment of the Slovak Repub	2 mg/m3 0,5 ppm blic concerning protection of h 4 mg/m3 1,5 mg/m3 4 mg/m3 1,5 mg/m3 0,1 mg/m3 Value 10 mg/m3	Aerosol Aerosol nealth in work with chem Form Inhalable fraction. Respirable fraction. Respirable fraction.
Iovakia. OELs. Decree of the gor gents components luminium hydroxide (CAS 1645-51-2) luminium oxide (CAS 344-28-1) pain. Occupational Exposure Lin components luminium oxide (CAS 344-28-1) weden. Occupational Exposure components	vernment of the Slovak Repub Type TWA TWA mits Type TWA Limit Values Type	2 mg/m3 0,5 ppm blic concerning protection of b Value 4 mg/m3 1,5 mg/m3 4 mg/m3 1,5 mg/m3 0,1 mg/m3 Value 10 mg/m3	Aerosol Aerosol health in work with chem Form Inhalable fraction. Respirable fraction. Respirable fraction. Respirable fraction.
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Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Туре	Value	Form
Aluminium oxide (CAS 1344-28-1)	STEL	24 mg/m3	Fume and respirable dust.
	TWA	3 mg/m3	Respirable dust.
		3 mg/m3	Fume and respirable dust.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form
Aluminium oxide (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.
,		10 mg/m3	Inhalable dust.
Biological limit values	No biological exposure limits noted for the	ingredient(s).	
Recommended monitoring procedures	Follow standard monitoring procedures.		
Derived no-effect level (DNEL)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
Exposure guidelines	Follow standard monitoring procedures.		
8.2. Exposure controls			
Appropriate engineering controls	Use process enclosures, local exhaust ver levels below recommended exposure limits		ring controls to control airborne
Individual protection measures,	such as personal protective equipment		
General information	Use personal protective equipment as request according to the CEN standards and in dis equipment.		
Eye/face protection	Risk of contact: Wear approved safety gog	igles.	
Skin protection			
- Hand protection	Use suitable protective gloves if risk of skin glove supplier.	n contact. Suitable gloves	can be recommended by the
- Other	If prolonged or repeated contact is likely, c	hemical resistant clothing	is recommended.
Respiratory protection	In case of inadequate ventilation, use resp	iratory protection.	
Thermal hazards	Wear appropriate thermal protective clothing	ng, when necessary.	
Hygiene measures	Always observe good personal hygiene me and before eating, drinking, and/or smokin equipment to remove contaminants. Disca cleaned.	g. Routinely wash work c	lothing and protective
Environmental exposure controls	Environmental manager must be informed	of all major releases.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Solid.
Physical state	Solid.
Form	Solid.
Colour	Various.
Odour	Slight.
Odour threshold	Not relevant.
рН	Not relevant.
Melting point/freezing point	Not relevant.
Initial boiling point and boiling range	Not relevant.
Flash point	Not relevant.
Evaporation rate	Not relevant.
Flammability (solid, gas)	Not relevant.
Upper/lower flammability or expl	osive limits
Flammability limit - lower	Not relevant.

Flammability limit - upper (%)	Not relevant.	
Explosive limit - lower (%)	Not relevant.	
Explosive limit – upper (%)	Not relevant.	
Vapour pressure	Not relevant.	
Vapour density	Not relevant.	
Solubility(ies)	Insoluble in water.	
Partition coefficient (n-octanol/water)	Not relevant.	
Auto-ignition temperature	Not relevant.	
Decomposition temperature	Not available.	
Viscosity	Not relevant.	
Explosive properties	Not relevant.	
Oxidizing properties	Not relevant.	
9.2. Other information		
Bulk density	Not available.	
Density	1,50 - 3,30 (25 °C)	
VOC (Weight %)	Not available.	

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	None.

SECTION 11: Toxicological information

General information	Under normal conditions of intended use, this material does not pose a risk to health.	
Information on likely routes of exposure		
Inhalation	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the mucous membranes and respiratory tract.	
Skin contact	Prolonged skin contact may cause temporary irritation.	
Eye contact	Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye.	
Ingestion	Not likely, due to the form of the product.	
Symptoms	Under normal conditions of intended use, this material does not pose a risk to health.	
11.1. Information on toxicological effects		
Acute toxicity	Under normal conditions of intended use, this material does not pose a risk to health.	
Skin corrosion/irritation	Not classified.	
Serious eye damage/eye irritation	Not classified.	
Respiratory sensitisation	Not classified.	
Skin sensitisation	Not classified.	
Germ cell mutagenicity	Not classified.	
Carcinogenicity	Not classified.	
Reproductive toxicity	Not classified.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not classified.	

Mixture versus substance information	None known.
Other information	None known.

SECTION 12: Ecological information

12.1. Toxicity 12.2. Persistence and degradability	The product is not classified as environmentally hazardous. No data available.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	Not relevant.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	The product is insoluble in water.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.
Contaminated packaging	Since emptied containers retain product residue, follow label warnings even after container is emptied.
EU waste code	07 02 17 The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Not applicable.

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.
- Regulation (EC) No. 689/2008 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

Not listed.

Regulation (EC) No. 19 Not listed.	07/2006, REACH Article 59(10) Candidate List as currently published by ECHA
Authorisations	
Regulation (EC) No. 19 Not listed.	07/2006, REACH Annex XIV Substances subject to authorization, as amended
Restrictions on use	
Not listed.	07/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended on the protection of workers from the risks related to exposure to carcinogens and mutagens at
Not listed. Directive 92/85/EEC: or breastfeeding, as amer	n the safety and health of pregnant workers and workers who have recently given birth or are Inded
Not listed.	
Other EU regulations	
Directive 2012/18/EU or Not listed.	n major accident hazards involving dangerous substances
Directive 94/33/EC on t	he protection of young people at work
Not listed.	
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended and respective national laws implementing EC directives.
National regulations	Follow national regulation for work with chemical agents.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other inf	formation
List of abbreviations	
	DNEL: Derived No-Effect Level.
	PNEC: Predicted No-Effect Concentration.

	PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.
References	ESIS (European chemical Substances Information System) Registry of Toxic Effects of Chemical Substances (RTECS) HSDB® - Hazardous Substances Data Bank
Information on evaluation method leading to the classification of mixture	The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.
Full text of any H-statements not written out in full under Sections 2 to 15	None.
Training information	Follow training instructions when handling this material.
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