SAFETY DATA SHEET



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

1.1. Product identifier			
Trade name or designation of the mixture	PLASTECH 70P (STD, SOFT, FIRM)		
Registration number	-		
Synonyms	None.		
Brand Code	041A, 544A, 042A, 194B, 043A,	117A	
Issue date	30-November-2020		
Version number	02		
Revision date	18-May-2021		
Supersedes date	30-November-2020		
1.2. Relevant identified uses of	the substance or mixture and	d uses advised against	
Identified uses	For Industrial or Professional Use Only		
Uses advised against	Avoid dry cutting, blasting, or dust generation.		
1.3. Details of the supplier of t	he safety data sheet		
Supplier			
Company name	HarbisonWalker International		
Address	1305 Cherrington Parkway, Suite 100		
	Moon Township, PA 15108, USA		
Division	United States		
Telephone	Concern Phone:	410 075 6740	
relephone	CHEMTREC EMERGENCY US/CAN ONLY	1-800-424-9300	
e-mail	sds@thinkHWI.com		
Contact person	HWI USA		
1.4. Emergency telephone number	General Phone:	412-375-6600	

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 classificatior applies.

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

Health hazards			
Serious eye damage	e/eye irritation	Category 2	H319 - Causes serious eye irritation.
Hazard summary Material can be sli chronic effects. O effects.		be slippery when wet. Causes sets. Occupational exposure to the	erious eye irritation. Prolonged exposure may cause e substance or mixture may cause adverse health
2.2. Label elements			
Label according to Regula	ation (EC) No. 127	2/2008 as amended	
Contains:	Aluminium T	ris(Dihydrogen Phosphate)	

Hazard pictograms

Aluminium Tris(Dihydrogen Phosphate)



Signal word Hazard statements H319 Warning

Precautionary statements Prevention

Causes serious eye irritation.

P264	Wash thoroughly after handling.
P280	Wear eye protection/face protection.
Response	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	Not available.
Disposal	Not available.
Supplemental label information	None.
2.3. Other hazards	Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Mullite	50 - 70	1302-93-8 215-113-2	-	-	
Classification:	-				
Orthophosphoric acid	2,5 - 10	7664-38-2 231-633-2	-	015-011-00-6	#
Classification:	Skin Irrit. 2;H315, Eye Ir	rit. 2;H319			В
Aluminium Tris(Dihydroge Phosphate)	en 1 - 2,5	13530-50-2 236-875-2	-	-	
Classification:	Eye Dam. 1;H318				
Other components below	reportable 40 - 60				

levels

List of abbreviations and symbols that may be used above

#: This substance has been assigned Union workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Composition comments

Bentonite contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Not available.

4.1. Description of first aid me	asures
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
4.2. Most important symptoms and effects, both acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
SECTION 5: Firefighting	measures
General fire hazards	Not available.

5.1. Extinguishing media	
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not available.

.3. Advice for firefighters	
Special protective	Not available.
equipment for firefighters	
Special fire fighting procedures	Not available.

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. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
6.3. Methods and material for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
6.4. Reference to other sections	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
7.2. Conditions for safe storage, including any incompatibilities	Store in tightly closed container. 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

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	МАК	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 fraction.
		10 mg/m3	Respirable fume.
Amorphous silica (CAS 7631-86-9)	МАК	4 mg/m3	Inhalable fraction.
Orthophosphoric acid (CAS 7664-38-2)	МАК	1 mg/m3	
	STEL	2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	МАК	5 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.

Belgium. Exposure Limit Values. Components

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	10 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at workComponentsTypeValueForm

	71		
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	3,5 mg/m3	Respirable fraction.
		10 mg/m3	Dust.
		1,5 mg/m3	Respirable fraction.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	10 mg/m3	Inhalable fraction.
		0,07 mg/m3	Respirable fraction.
Bentonite (CAS 1302-78-9)	TWA	6 mg/m3	Inhalable fraction.
		3 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	2 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Respirable dust.

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	MAC	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	MAC	6 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Orthophosphoric acid (CAS 7664-38-2)	MAC	1 mg/m3	
	STEL	2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	MAC	4 mg/m3	Respirable dust.
		10 mg/m3	Total dust.

Cyprus. OELs. Control of factory	atmosphere and dangerous	substances in factories reg	ulation, PI 311/73, as
amended. Components	Туре	Value	
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Czech Republic. OELs. Governme Components	nt Decree 361 Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	0,1 mg/m3	Respirable dust.
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m3	Dust.
Bentonite (CAS 1302-78-9)	TWA	6 mg/m3	Dust.
Orthophosphoric acid (CAS 7664-38-2)	Ceiling	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Dust.
Denmark. Exposure Limit Values Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TLV	5 mg/m3	Total
		2 mg/m3	Respirable.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TLV	1 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	TLV	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TLV	6 mg/m3	
Estonia. OELs. Occupational Expo	osure Limits of Hazardous S	Substances. (Annex of Regul	ation No. 293 of 18
September 2001)	Туро	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Fine dust, respiratory fraction
-		10 mg/m3	Total dust.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m3	Fine dust, respiratory fraction
Mullite (CAS 1302-93-8)	TWA	2 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	Vapour.
	TWA	1 mg/m3	Vapour.
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	
Finland. Workplace Exposure Lin Components	nits Type	Value	Form
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	5 mg/m3	
Mullite (CAS 1302-93-8)	TWA	2 mg/m3	

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Finland. Workplace Exp	osure Limits		
Components	Туре	Value	Form
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Dust.
France. Threshold Limit	Values (VLEP) for Occupation	al Exposure to Chemicals in France	, INRS ED 984
Components	Туре	Value	
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	VME	10 mg/m3	
Regulatory status:	Indicative limit (VL)		
Aluminium Tris(Dihydroger Phosphate) (CAS 13530-50-2)	n VME	2 mg/m3	
Regulatory status:	Indicative limit (VL)		
Orthophosphoric acid (CAS 7664-38-2)	VLE	2 mg/m3	
Regulatory status:	Regulatory indicative (VRI)		
		0,5 ppm	
Regulatory status:	Regulatory indicative (VRI) VME	1 mg/m3	
Regulatory status:	Regulatory indicative (VRI)		
		0,2 ppm	
Regulatory status:	Regulatory indicative (VRI)		
Titanium dioxide (CAS 13463-67-7)	VME	10 mg/m3	

Regulatory status: Indicative limit (VL)

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
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Inhalable dust.
		1,5 mg/m3	Respirable dust.
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.
Orthophosphoric acid (CAS 7664-38-2)	TWA	2 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	0,3 mg/m3	Respirable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Amorphous silica (CAS 7631-86-9)	AGW	4 mg/m3	Inhalable fraction.
Orthophosphoric acid (CAS 7664-38-2)	AGW	2 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	AGW	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

Greece. OELs (Decree No. 90/1999, as a Components	amended) Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Inhalable
		10 mg/m3	Respirable.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Inhalable
Hungary. OELs. Joint Decree on Chemic Components	al Safety of Workplaces Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	6 mg/m3	Respirable.
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	6 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Iceland. OELs. Regulation 154/1999 on Components	occupational exposure limits Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	10 mg/m3	
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	5 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
		0,5 mg/m3	Dust.
Mullite (CAS 1302-93-8)	TWA	2 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	6 mg/m3	
Ireland. Occupational Exposure Limits Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	Total inhalable dust.
		2,4 mg/m3	Respirable dust.
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	

Ireland. Occupational Exposure Limits

Components	Туре	Value	Form
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Total inhalable dust.
Italy. Occupational Exposure Limits			
Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	6 mg/m3	Decomposition aerosol.
		4 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	1 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Components	Туре	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Inhalable fraction.
		2 mg/m3	Respirable fraction.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	1 mg/m3	
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	
Luxembourg. Binding Occupation Components	onal exposure limit values (<i>l</i> Type	Annex I), Memorial A Value	

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Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	

Malta. OELs. Occupational Expo	sure Limit Values (L.N. 227.	of Occupational Health and	Safety Authority Act (CAP.
424), Schedules I and V) Components	Type	Value	
Orthophosphoric acid (CAS	STEL	2 mg/m3	
700+30-2)	TWA	1 mg/m3	
Netherlands, OFIs (binding)		3,	
Components	Туре	Value	
Orthophosphoric acid (CAS	STEL	2 mg/m3	
7664-38-2)	T14/A	1 mg/m2	
		1 mg/m3	
Norway. Administrative Norms Components	for Contaminants in the Wo Type	rkplace Value	Form
Aluminium Oxide	TIV	10 ma/m3	
(Non-Fibrous) (CAS 1344-28-1)	1LV	10 mg/m5	
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TLV	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TLV	1,5 mg/m3	Respirable dust.
Orthophosphoric acid (CAS 7664-38-2)	TLV	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TLV	5 mg/m3	
Ordinance of the Minister of La	oour and Social Policy on 6 J	lune 2014 on the maximum p	ermissible concentrations
and intensities of harmful healt Components	h factors in the work enviro Type	nment, Journal of Laws 2014 Value	, item 817 Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	2,5 mg/m3	Inhalable fraction.
		1,2 mg/m3	Respirable fraction.
Amorphous silica (CAS 7631-86-9)	TWA	2 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	STEL	30 mg/m3	
·	TWA	10 mg/m3	Inhalable fraction.
Portugal. OELs. Decree-Law n. 2 Components	290/2001 (Journal of the Re Type	epublic - 1 Series A, n.266) Value	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
,	TWA	1 mg/m3	
Portugal. VLEs. Norm on occupa Components	tional exposure to chemica Type	l agents (NP 1796) Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	1 mg/m3	Respirable fraction.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Respirable fraction.
Orthophosphoric acid (CAS 7664-38-2)	STEL	3 mg/m3	
	TWA	1 mg/m3	

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Portugal. VLEs. Norm on occupa Components	ntional exposure to chemical ag Type	ents (NP 1796) Value	Form
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Romania. OELs. Protection of w Components	orkers from exposure to chemic Type	cal agents at the workpla Value	ce Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	STEL	5 mg/m3	Aerosol
-	TWA	2 mg/m3	Aerosol
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	STEL	15 mg/m3	
	TWA	10 mg/m3	
Slovakia. OELs. Regulation No. 3 Components	300/2007 concerning protectio Type	n of health in work with o Value	chemical agents Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
		0,1 mg/m3	
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	0,3 mg/m3	
Bentonite (CAS 1302-78-9)	TWA	6 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	
Slovenia. OELs. Regulations con	cerning protection of workers	against risks due to expos	sure to chemicals while
Components	Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Amorphous silica (CAS 7631-86-9)	TWA	4 mg/m3	Inhalable fraction.
Orthophosphoric acid (CAS 7664-38-2)	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Inhalable fraction.

		1,25 mg/m3	Respirable fraction.
Spain. Occupational Exposure Limits Components	Туре	Value	
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	10 mg/m3	
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	

Components	Туре	Value	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	
Sweden. OELs. Work Environme Components	nt Authority (AV), Occupatio Type	onal Exposure Limit Values (Value	AFS 2015:7) Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	5 mg/m3	Total dust.
		2 mg/m3	Respirable dust.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	1 mg/m3	Total dust.
Mullite (CAS 1302-93-8)	TWA	1 mg/m3	Total dust.
Orthophosphoric acid (CAS 7664-38-2)	Ceiling	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	5 mg/m3	Total dust.
Switzerland. SUVA Grenzwerte a Components	am Arbeitsplatz Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	STEL	24 mg/m3	Respirable dust and/or fume.
	TWA	3 mg/m3	Respirable dust and/or fume.
		3 mg/m3	Respirable dust.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	Inhalable fraction.
Orthophosphoric acid (CAS 7664-38-2)	STEL	4 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	3 mg/m3	Respirable dust.
UK. EH40 Workplace Exposure L Components	imits (WELs) Type	Value	Form
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Aluminium Tris(Dihydrogen Phosphate) (CAS 13530-50-2)	TWA	2 mg/m3	
Amorphous silica (CAS 7631-86-9)	TWA	6 mg/m3	Inhalable dust.
		2,4 mg/m3	Respirable dust.
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	
	TWA	1 mg/m3	
Titanium dioxide (CAS 13463-67-7)	TWA	4 mg/m3	Respirable.
		10 mg/m3	Inhalable
EU. Indicative Exposure Limit Va Components	alues in Directives 91/322/I Type	EEC, 2000/39/EC, 2006/15/ Value	EC, 2009/161/EU
Orthophosphoric acid (CAS 7664-38-2)	STEL	2 mg/m3	

EU. Indicative Exposure Components	e Limit Values in Di T	rectives 91/322/EEC ype	2000/39/EC Va	, 2006/15/EC, 2009/161/EU lue	
	Т	WA	1 n	ng/m3	
Biological limit values					
Switzerland. BAT-Werte Components	e (Biological Limit Value	Values in the Workpl Determinant	ace as per SU\ Specimen	/A) Sampling Time	
Aluminium Oxide (Non-Fibrous) (CAS 1344-28-1)	60 µg/g	Aluminium	Creatinine in urine	*	
* - For sampling details, pl	ease see the source	document.			
Recommended monitoring procedures	Follow standard	monitoring procedures			
Derived no effect levels (DNELs)	Not available.				
Predicted no effect concentrations (PNECs)	Not available.				
Exposure guidelines	Occupational Ex	posure Limits are not re	elevant to the cu	rrent physical form of the product.	
8.2. Exposure controls					
Appropriate engineering controls	Good general vo be matched to o engineering cor limits have not station.	entilation (typically 10 a conditions. If applicable trols to maintain airbor peen established, maint	ir changes per h , use process en ne levels below ain airborne leve	our) should be used. Ventilation rates e closures, local exhaust ventilation, or o recommended exposure limits. If expos els to an acceptable level. Provide eyew	should ther ure vash
Individual protection measu	ires, such as perso	nal protective equip	ment		
General information	Use personal pr according to the equipment.	otective equipment as r e CEN standards and in	equired. Person discussion with	al protection equipment should be chos the supplier of the personal protective	en
Eye/face protection	Wear safety gla	sses with side shields (o	or goggles).		
Skin protection					
- Hand protection	Wear appropria	te chemical resistant glo	oves.		
- Other	Wear suitable p	rotective clothing.			
Respiratory protection	Use a NIOSH/M exceeding the e	SHA approved respirato xposure limits.	or if there is a ris	k of exposure to dust/fume at levels	
Thermal hazards	Wear appropria	te thermal protective clo	othing, when ne	cessary.	
, m					

Hygiene measures

Environmental exposure controls

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.

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

Physical state	Solid.
Form	Solid. Paste.
Colour	Not available.
Odour	Not available.
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.

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Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	xplosive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information 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	No dangerous reaction known under conditions of normal use.
10.4. Conditions to avoid	Contact with incompatible materials.
10.5. Incompatible materials	Acids. Chlorine. Fluorine. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Serious eye damage/eye

-	
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.
Symptoms	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
11.1. Information on toxicol	logical effects
Acute toxicity	Not known.
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.

irritation	
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.

Causes serious eye irritation.

Carcinogenicity

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.	
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
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	Due to partial or complete lack of data the classification is not possible.
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 clean environment.	assification criteria are not met for hazardous to the aquatic
12.2. Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.	
12.3. Bioaccumulative potential	No data available.	
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	Not a PBT or vPvB substance of	or mixture. Not available.
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.	
12.7. Additional information		
Estonia Dangerous substan	ices in groundwater Data	
Orthophosphoric acid (CAS	5 7664-38-2)	Pesticides (total) 0,5 ug/l Pesticides (total) 5 ug/l
Estonia Dangerous substan	ices in soil Data	
Orthophosphoric acid (CAS	5 7664-38-2)	Synthetic pesticides (total of active substances) 0,5 mg/kg Synthetic pesticides (total of active substances) 20 mg/kg Synthetic pesticides (total of active substances) 5 mg/kg
SECTION 13: Disposal co	nsiderations	

13.1. Waste treatment methods

Residual waste	Not available.
Contaminated packaging	Not available.
EU waste code	Not available.

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.

IATA

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

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

14.7. Transport in bulkNot applicable.according to Annex II ofMARPOL 73/78 and the IBC

Code

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 (EC) No. 850/2004 On persistent organic pollutants, Annex I 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 Not listed.

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

Not listed.

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 Not listed.	on major accident hazards involving dangerous substances, as amended
Other regulations	The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	Not available.

Full text of any H-statements not written out in full under Sections 2 to 15

Revision information Training information Disclaimer H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

Product and Company Identification: Product and Company Identification

Not available.

This information is based on our present knowledge on creation date. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.