

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	Monnex
Registration number	-
Synonyms	None.
Issue date	22-August-2013
Version number	02
Revision date	03-December-2014
Supersedes date	22-August-2013
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	Firefighting Powder for use on Class B, C and E fires.
Uses advised against	None known.
1.3. Details of the supplier of the	safety data sheet
Supplier	
Company name	Kerr Fire
Address	Station Road
	High Bentham
	North Yorkshire LA2 7NA
Telephone	0044 (0) 15 2426 4092
e-mail	ian.huntlev1@kerr-firefighting.com
Contact person	EH&S Manager
Emergency number in the	112
EU	
1.4. Emergency telephone	0044 (0)15 2426 4000 (Standard office hours: Monday to Friday 8:30am - 4:30pm GMT)

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

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

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Not classified for health hazards.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Dust may irritate the respiratory tract, skin and eyes. Prolonged and repeated overexposure to dust can lead to chronic bronchitis and chronic lung inflammation.
Main symptoms	Irritation of nose and throat. Irritation of eyes and mucous membranes.

2.2. Label elements

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

Hazard pictograms	None.
Signal word	None.
Hazard statements	The mixture does not meet the criteria for classification.
Precautionary statements	
Prevention	Observe good industrial hygiene practices.
Response	P314 - Get medical advice/attention if you feel unwell.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information	Not applicable.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	% CAS-I	No. / EC No.	REACH Registration No.	INDEX No.	Notes
Potassium Allophonate		6479-35-6 47-728-7	-	-	
Classification:	DSD: -				
	CLP: -				
Mica	<3 12	2001-26-2	-	-	
Classification:	DSD: -				
	CLP: -				
Silicon dioxide		631-86-9 31-545-4	-	-	
Classification:	DSD: -				
	CLP: -				
#: This substance has wo DSD: Directive 67/548/EE CLP: Regulation No. 127:	Ċ.				
Composition comments	All concentrations are in p percent by volume.	percent by wei	ght unless ingredient is a ga	as. Gas concentrati	ons are in
SECTION 4: First aid m	easures				
General information	Not available.				
4.1. Description of first aid r	easures				
Inhalation			d may cause coughing and dical attention if symptoms		ning. If
Skin contact	Contact with dust: Wash a persists.	area with soap	and water. Get medical at	tention if irritation d	evelops or
Eye contact	Dust in the eyes: Do not r assistance.	rub eyes. Flusl	n thoroughly with water. If in	ritation occurs, get	medical
Ingestion			give large amounts of milk o	or water to people r	not
4.2. Most important sympton and effects, both acute and delayed			eyes and mucous membrar	nes. Coughing.	
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportiv	/e measures a	nd treat symptomatically.		
SECTION 5: Firefightin	y measures				
General fire hazards	Product is an extinguishir	ng medium. It d	loes not burn or support cor	nbustion.	
5.1. Extinguishing media Suitable extinguishing media	No specific measures are	e required as th	is product is a fire extinguis	hing medium.	
Unsuitable extinguishin media	Not applicable.				
5.2. Special hazards arising from the substance or mixtu	Not a fire hazard. re				
5.3. Advice for firefighters Special protective		apparatus, op	erated in positive pressure r	node and full prote	ctive clothing
equipment for firefighte Special fire fighting					
procedures					

SECTION 6: Accidental release measures

6.1. Personal precautions, prote	ctive equipment and emergency procedures
For non-emergency personnel	Avoid inhalation of dust and contact with skin and eyes.
For emergency responders	Avoid formation of dust. Use personal protection recommended in section 8 of the SDS.
6.2. Environmental precautions	Avoid discharge to the aquatic environment.
6.3. Methods and material for containment and cleaning up	Vacuums used for this purpose should be equipped with HEPA filters. Vacuum up the spilled material.
6.4. Reference to other sections	For waste disposal, see section 13 of the SDS. For personal protection, see section 8 of the SDS.
SECTION 7: Handling and	storage
7.1. Precautions for safe handling	Use work methods which minimise dust production. Use only in well-ventilated areas. Avoid inhalation of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices.

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7.2. Conditions for safe	Store in original container. Store in a cool, dry, well-ventilated place. Store extinguisher in an
storage, including any incompatibilities	upright position not more than three high. Store away from incompatible materials. Read and follow manufacturer's recommendations.

7.3. Specific end use(s) Firefighting Powder for use on Class B, C and E fires.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List

Components	Туре	Value	Form	
Mica (CAS 12001-26-2)	МАК	10 mg/m3	Inhalable fraction.	
Silicon dioxide (CAS 7631-86-9)	MAK	4 mg/m3 Inhalable fraction.		
Belgium. Exposure Limit Values				
Components	Туре	Value		
Mica (CAS 12001-26-2)	TWA	3 mg/m3		
Silicon dioxide (CAS 7631-86-9)	TWA	10 mg/m3		
Bulgaria. OELs. Regulation No 1	3 on protection of workers aga	ainst risks of exposure to chen	nical agents at work	
Components	Туре	Value	Form	
Mica (CAS 12001-26-2)	TWA	6 mg/m3	Inhalable fraction.	
· · · ·		3 mg/m3	Respirable fraction.	
Silicon dioxide (CAS 7631-86-9)	TWA	10 mg/m3	Inhalable fraction.	
		0,07 mg/m3	Respirable fraction.	
Cyprus. OELs. Control of factory	atmosphere and dangerous s	substances in factories regulat	ion, PI 311/73, as amended	
Components	Туре	Value		
Silicon dioxide (CAS 7631-86-9)	TWA	2 mg/m3		
Czech Republic. OELs. Governn	nent Decree 361			
Components	Туре	Value	Form	
Mica (CAS 12001-26-2)	TWA	10 mg/m3	Total dust.	
		10 mg/m3	Respirable dust.	
Silicon dioxide (CAS 7631-86-9)	TWA	4 mg/m3	Dust.	
Estonia. OELs. Occupational Ex 2001)	posure Limits of Hazardous Su	ubstances. (Annex of Regulation	on No. 293 of 18 Septembe	

Components	Туре	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	2 mg/m3	Respirable dust.

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

Components	Туре	Value	Form
Silicon dioxide (CAS 7631-86-9)	AGW	4 mg/m3	Inhalable fraction.
reland. Occupational Exposure L	imits		
Components	Туре	Value	Form
/lica (CAS 12001-26-2)	TWA	10 mg/m3	Total inhalable dust.
	T 14/4	0,8 mg/m3	Respirable dust.
Silicon dioxide (CAS 7631-86-9)	TWA	6 mg/m3	Total inhalable dust.
,		2,4 mg/m3	Respirable dust.
taly. OELs			
Components	Туре	Value	Form
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.
atvia. OELs. Occupational expo	sure limit values of chemical s	ubstances in work environme	ent
Components	Туре	Value	
Silicon dioxide (CAS	TWA	1 mg/m3	
7631-86-9)		r mg/mo	
Norway. Administrative Norms fo	or Contaminants in the Workpla	ace	
Components	Туре	Value	Form
Silicon dioxide (CAS	TLV	1,5 mg/m3	Respirable dust.
7631-86-9)			
Poland. MACs. Minister of Labou Norking Environment	r and Social Policy Regarding	Maximum Allowable Concent	rations and Intensities in
			_
Components	Туре	Value	Form
	Type TWA	Value 2 mg/m3	Respirable dust.
Silicon dioxide (CAS		2 mg/m3	Respirable dust.
Silicon dioxide (CAS 7631-86-9)	TWA	2 mg/m3 10 mg/m3	
Silicon dioxide (CAS 7631-86-9) Portugal. VLEs. Norm on occupat	TWA tional exposure to chemical ag	2 mg/m3 10 mg/m3	Respirable dust. Total dust.
Silicon dioxide (CAS 7631-86-9) Portugal. VLEs. Norm on occupat Components	TWA tional exposure to chemical ag Type	2 mg/m3 10 mg/m3 gents (NP 1796) Value	Respirable dust. Total dust. Form
Silicon dioxide (CAS 7631-86-9) Portugal. VLEs. Norm on occupat Components Mica (CAS 12001-26-2)	TWA tional exposure to chemical ag Type TWA	2 mg/m3 10 mg/m3 gents (NP 1796) Value 3 mg/m3	Respirable dust. Total dust. Form Respirable fraction.
Silicon dioxide (CAS 7631-86-9) Portugal. VLEs. Norm on occupat Components Mica (CAS 12001-26-2) Slovakia. OELs. Decree of the go	TWA tional exposure to chemical ag Type TWA	2 mg/m3 10 mg/m3 gents (NP 1796) Value 3 mg/m3	Respirable dust. Total dust. Form Respirable fraction.
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Silicon dioxide (CAS 7631-86-9) Portugal. VLEs. Norm on occupat Components Mica (CAS 12001-26-2) Slovakia. OELs. Decree of the go agents Components	TWA tional exposure to chemical ag Type TWA	2 mg/m3 10 mg/m3 gents (NP 1796) Value 3 mg/m3	Respirable dust. Total dust. Form Respirable fraction. nealth in work with chemica
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UK. EH40 Workplace Exposure Limits (WELs)

Components	Туре	Value	Form
Silicon dioxide (CAS 7631-86-9)	TWA	6 mg/m3	Inhalable dust.
		2,4 mg/m3	Respirable dust.

Biological limit values

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Components	Value	Determinant	Specimen	Sampling time
Silicon dioxide (CAS 7631-86-9)	25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*
* - For sampling details, plea	ase see the source doc	ument.		
Recommended monitoring procedures	Follow standard mo	onitoring procedures		
Derived no-effect level (DNEL)	Not available.			
Predicted no effect concentrations (PNECs)	Not available.			
8.2. Exposure controls				
Appropriate engineering controls		entilation for operati minimise the risk o		st formation. Observe occupational
Individual protection measures	s, such as personal p	rotective equipmer	nt	
General information				onal protective equipment should be chosen h the supplier of the personal protective
Eye/face protection	Wear approved saf	ety goggles.		
Skin protection				
- Hand protection	It is a good industri contact use suitable		o minimise skii	n contact. For prolonged or repeated skin
- Other	Wear suitable prote	ective clothing. It is a	good industria	al hygiene practice to minimise skin contact.
Respiratory protection	with particle filter (transfer exponential exponenti exponential exponential exponential e	/pe P2). If engineeri osure limits (where a	ng controls do applicable) or to	of dust, use suitable respiratory equipment not maintain airborne concentrations below of an acceptable level (in countries where yed respirator must be worn.
Thermal hazards	Wear appropriate the	nermal protective clo	othing, when ne	ecessary.
Hygiene measures				nd safety practices. Routinely wash work nants. Observe any medical surveillance
Environmental exposure controls	Contain spills and p	prevent releases and	l observe natio	nal regulations on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
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Physical state	Solid.
Form	Fine powder.
Colour	Off-white.
Odour	Slightly ammoniacal.
Odour threshold	Not available.
рН	8 - 9 of 10% water solution
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.

Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not applicable.
Solubility(ies)	Soluble in water, but silicon additive delays dissolution.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	270 °C (518 °F)
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
9.2. Other information	
Density	950,00 - 1100,00 kg/m³

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	Stable under normal temperature conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Temperatures above melting point. Contact with alkalis.
10.5. Incompatible materials	Strong acids. Strong bases. Strong oxidising agents. Alkali metals. Water.
10.6. Hazardous decomposition products	Ammonia. Sulphur oxides. Oxides of phosphorus. Carbon oxides.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

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Ingestion	Under normal conditions of intended use, this material does not pose a risk to health. However, accidental ingestion of the content may cause discomfort.
Inhalation	Dust may irritate respiratory system.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Symptoms	Irritation of eyes and mucous membranes. Exposed individuals may experience eye tearing, redness, and discomfort.

11.1. Information on toxicological effects

Acute toxicity Skin corrosion/irritation	May cause eye, skin and respiratory tract irritation.
Serious eye damage/eye	Dust may irritate skin. Dust in the eyes will cause irritation.
irritation Respiratory sensitisation	No data available.
Skin sensitisation	Dust may irritate skin.
Germ cell mutagenicity	No data available.
Carcinogenicity	Not available.
Reproductive toxicity	No data available.
Specific target organ toxicity - single exposure	None known.
Specific target organ toxicity - repeated exposure	None known.

Aspiration hazard	Not applicable.
Mixture versus substance information	None known.
Other information	Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure.

SECTION 12: Ecological information

12.1. Toxicity	The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.
12.2. Persistence and degradability	Not available.
12.3. Bioaccumulative potential	The product is not expected to bioaccumulate.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
Mobility in general	The product is partly soluble in water. May spread in the aquatic environment.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of waste and residues in accordance with local authority requirements.
Contaminated packaging	Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	16 05 09 Waste codes should be assigned by the user based on the application for which the product was used.

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 This substance/mixture is not intended to be transported 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

EU regulations

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

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, 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

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulationsThe product does not need to be labelled in accordance with EC directives or respective national
laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.National regulationsFollow national regulation for work with chemical agents.

15.2. Chemical safety No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations	DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative. DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.
References	HSDB® - Hazardous Substances Data Bank Registry of Toxic Effects of Chemical Substances (RTECS)
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	None.
Training information	Follow training instructions when handling this material.
Disclaimer	This information is based on our current knowledge and is believed to be correct as of the date issued. The information is intended to describe the product for the purposes of health, safety and environmental requirements only and no warranty, express or implied, is made. It should also not be construed as guaranteeing any specific property of the product. In addition, information obtained from a database is subject to change and may not be as current as the information in the MSDS available directly from Kerr Fire.