

TEAM[®] Industrial Services

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	VALVE PACK EPX
Registration number	-
Synonyms	None.
Product code	801-0016
Issue date	17-October-2012
Version number	00
Revision date	17-October-2012
Supersedes date	-

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Industrial Leak Sealant
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name	Team Industrial Services, Inc.
Address	Postbus 37 4380 AA Vlissingen 3237 The Netherlands
Telephone	+31 (0) 118 48 58 00 Fax +31 (0) 118 48 58 86
e-mail	Not available.
Contact person	Not available.

1.4. Emergency telephone number	+1 703-527-3887
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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 classification applies.

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. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Main symptoms	Direct contact with eyes may cause temporary irritation.

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	Wash thoroughly after handling.
Storage	Store away from incompatible materials.

Disposal	Dispose of waste and residues in accordance with local authority requirements.
Supplemental label information	Not applicable.
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
Molybdenum disulphide	25-50	1317-33-5 215-263-9	-	-	
Classification:					
		DSD: -			
		CLP: -			
Carbon fiber	5-10	7782-42-5 231-955-3	-	-	
Classification:					
		DSD: -			
		CLP: -			

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation	Remove victim to fresh air. Get medical attention if symptoms persist.
Skin contact	Wash area with soap and water. Get medical attention if irritation develops or persists.
Eye contact	Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Rinse mouth and drink plenty of water. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort occurs.

4.2. Most important symptoms and effects, both acute and delayed Direct contact with eyes may cause temporary irritation.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards The product is not flammable.

5.1. Extinguishing media

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	No restrictions known.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid prolonged and repeated contact. See Section 8 for personal protective equipment.
For emergency responders Use personal protection as 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** Collect and dispose of spillage as indicated in section 13.
- 6.4. Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling** Provide adequate ventilation. Avoid prolonged and repeated contact. Observe good industrial hygiene practices.
- 7.2. Conditions for safe storage, including any incompatibilities** Store in closed original container in a dry place.
- 7.3. Specific end use(s)** Industrial Leak Sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	MAK	5 mg/m ³	Respirable dust.
	STEL	10 mg/m ³	Respirable dust.
Molybdenum disulphide (CAS 1317-33-5)	MAK	10 mg/m ³	Inhalable fraction.
	STEL	20 mg/m ³	Inhalable fraction.

Belgium. Exposure Limit Values.

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable fraction.
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m ³	

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

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	5 mg/m ³	Inhalable fraction.
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m ³	

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.

Components	Type	Value
Carbon fiber (CAS 7782-42-5)	TWA	10 mg/m ³

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	10 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.
Molybdenum disulphide (CAS 1317-33-5)	Ceiling	25 mg/m ³	
	TWA	5 mg/m ³	

Denmark. Exposure Limit Values

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TLV	2,5 mg/m ³	Respirable.
Molybdenum disulphide (CAS 1317-33-5)	TLV	10 mg/m ³	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	5 mg/m ³	Dust.
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m ³	
		5 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.

Finland. Workplace Exposure Limits

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	2 mg/m ³	
Molybdenum disulphide (CAS 1317-33-5)	TWA	0,5 mg/m ³	

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	VME	2 mg/m ³	Respirable fraction.
Molybdenum disulphide (CAS 1317-33-5)	VLE	10 mg/m ³	
	VME	5 mg/m ³	

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

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	4 mg/m ³	Inhalable fraction.
		1,5 mg/m ³	Respirable fraction.

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

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	AGW	3 mg/m ³	Respirable fraction.
		10 mg/m ³	Inhalable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	5 mg/m ³	Respirable.
		10 mg/m ³	Inhalable
Molybdenum disulphide (CAS 1317-33-5)	TWA	15 mg/m ³	

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	STEL	60 mg/m ³	
	TWA	15 mg/m ³	

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	5 mg/m ³	Total dust.
		2,5 mg/m ³	Respirable dust.
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m ³	

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	4 mg/m ³	Respirable dust.
		10 mg/m ³	Total inhalable dust.

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

Italy

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m3	Inhalable fraction.

Italy. OELs

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Molybdenum disulphide (CAS 1317-33-5)	TWA	3 mg/m3	Respirable fraction.

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

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	2 mg/m3	Dust.

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

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	3 mg/m3	Dust.
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TLV	2 mg/m3	Respirable dust.
		10 mg/m3	Total dust.
Molybdenum disulphide (CAS 1317-33-5)	TLV	10 mg/m3	

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	4 mg/m3	Total dust.
		1 mg/m3	Respirable dust.
Molybdenum disulphide (CAS 1317-33-5)	STEL	10 mg/m3	
	TWA	4 mg/m3	

Portugal

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	TWA	3 mg/m3	Respirable fraction.

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	2 mg/m3	Respirable fraction.
Molybdenum disulphide (CAS 1317-33-5)	TWA	10 mg/m3	Inhalable fraction.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
Molybdenum disulphide (CAS 1317-33-5)	STEL	10 mg/m3
	TWA	5 mg/m3

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	2 mg/m ³	Respirable fraction.
		10 mg/m ³	Total
Molybdenum disulphide (CAS 1317-33-5)	TWA	15 mg/m ³	

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Components	Type	Value	Form
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m ³	Inhalable fraction.

Spain

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA (VLA-ED)	2 mg/m ³	Dust.
Molybdenum disulphide (CAS 1317-33-5)	TWA (VLA-ED)	10 mg/m ³	

Sweden. Occupational Exposure Limit Values

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	5 mg/m ³	Total dust.
Molybdenum disulphide (CAS 1317-33-5)	TWA	5 mg/m ³	Respirable dust.
		10 mg/m ³	Total dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	5 mg/m ³	Inhalable dust.
Molybdenum disulphide (CAS 1317-33-5)	TWA	2,5 mg/m ³	Respirable dust.
		10 mg/m ³	Inhalable dust.

United Kingdom

Components	Type	Value	Form
Carbon fiber (CAS 7782-42-5)	TWA	4 mg/m ³	Respirable dust.
Molybdenum disulphide (CAS 1317-33-5)	STEL	10 mg/m ³	Inhalable dust.
		20 mg/m ³	
		10 mg/m ³	

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Carbon fiber (CAS 7782-42-5)	Workers	Inhalation	1,2 mg/m ³	Long term exposure local effects

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment

General information Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Eye/face protection Risk of contact: Wear approved safety glasses or goggles.

Skin protection

- Hand protection	Wear protective gloves.
- Other	Where skin contact is likely, wear chemical impervious gloves. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
Hygiene measures	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 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	Black fibrous semi-solid.
Physical state	Liquid.
Form	Fibrous semi-solid.
Colour	Black.
Odour	Not available.
Odour threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	140,6 °C (285 °F)
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	Not available.
Solubility(ies)	Slightly soluble in water.
Partition coefficient (n-octanol/water)	No data available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is 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	Will not occur.
10.4. Conditions to avoid	Exposure to flame or temperatures above 750° F (398.9 C°).
10.5. Incompatible materials	None known.
10.6. Hazardous decomposition products	None known.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
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Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Dust may irritate throat and respiratory system and cause coughing.
Skin contact	Prolonged skin contact may cause irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms	Direct contact with eyes may cause temporary irritation.

11.1. Information on toxicological effects

Acute toxicity	May cause discomfort if swallowed.
Skin corrosion/irritation	Not available.
Serious eye damage/irritation	Not available.
Respiratory sensitisation	Not available.
Skin sensitisation	Not available.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not classified.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.
Specific target organ toxicity - repeated exposure	Not available.
Aspiration hazard	Not available.
Mixture versus substance information	Not available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	The product is not expected to be hazardous to the environment.
12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol/water (log Kow)	No data available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
Mobility in general	No data available.
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 expected to be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose product packaging in accordance with local authority requirements taking into account characteristics of the packaging material.
EU waste code	08 04 10
Disposal methods/information	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. Recover and reclaim or recycle, if practical.

SECTION 14: Transport information

ADR

The product is not covered by international regulation on the transport of dangerous goods.

RID

The product is not covered by international regulation on the transport of dangerous goods.

ADN

The product is not covered by international regulation on the transport of dangerous goods.

IATA

The product is not covered by international regulation on the transport of dangerous goods.

IMDG

The product is not covered by international regulation on the transport of dangerous goods.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code This substance/mixture is not intended to be transported in bulk.

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. 143/2011 Annex XIV Substances Subject to Authorisation

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 regulations

The 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 as amended.

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 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

Not available.

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

The information in the sheet was written based on the best knowledge and experience currently available.