

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 4

Registration number

Synonyms None. **Product code** 901-0004

Issue date 24-January-2013

Version number 00

Revision date 24-January-2013

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.

Postbus 37 4380 AA Vlissingen 3237 **Address**

The Netherlands

Telephone +31 (0) 118 48 58 00

Fax +31 (0) 118 48 58 86

Not available. e-mail **Contact person** Not available. +1 703-527-3887 1.4. Emergency telephone

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

Classification Carc. Cat. 3;R40, N;R51/53

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

Health hazards

Carcinogenicity H351 - Suspected of causing Category 2

cancer.

1/10

Environmental hazards

Hazardous to the aquatic environment, Category 2 H411 - Toxic to aquatic life with

long-term aquatic hazard long lasting effects.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Limited evidence of a carcinogenic effect. Not classified for health hazards. However,

occupational exposure to the mixture or substance(s) may cause adverse health effects.

Environmental hazards Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic 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

Contains: Perchloroethylene

Hazard pictograms



Valve Pack 4

Signal word Warning

Hazard statements H351 - Suspected of causing cancer.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P281 - Use personal protective equipment as required.

P308 + P313 - IF exposed or concerned: Get medical advice/attention. Response

Storage P405 - Store locked up.

Disposal P501 - Dispose of contents/container in accordance with local/regional/national/international

regulations.

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**

Polyfluoroethylene 50-80 9002-84-0

Classification: DSD: -

CLP: -

Perchloroethylene 25-50 127-18-4 602-028-00-4

204-825-9

Classification: **DSD:** Carc. Cat. 3;R40, N;R51/53

CLP: Carc. 2;H351, Aquatic Chronic 2;H411

Butene, homopolymer 10-25 9003-29-6

500-004-7

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

Water spray, foam, dry powder or carbon dioxide.

Valve Pack 4 2/10

Version No.: 00

media

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	Туре	Value	
Perchloroethylene (CAS 127-18-4)	MAK	345 mg/m3	
		50 ppm	
	STEL	1380 mg/m3	
		200 ppm	
B. I			

Belgium. Exposure Limit Values.

Components	Туре	Value	
Perchloroethylene (CAS 127-18-4)	STEL	695 mg/m3	
,		100 ppm	
	TWA	172 mg/m3	
		25 ppm	

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

Components	Туре	Value	
Perchloroethylene (CAS	TWA	120 mg/m3	
127-18-4)		•	

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

Components	Туре	Value	
Perchloroethylene (CAS 127-18-4)	TWA	670 mg/m3	
- ,		100 ppm	

Valve Pack 4 Version No.: 00

Czech Republic. OELs. Government Decree 361

Components	Туре	Value
Perchloroethylene (CAS 127-18-4)	Ceiling	750 mg/m3
	TWA	250 mg/m3
Denmark. Exposure Limit Values		
Components	Туре	Value
Perchloroethylene (CAS	TLV	70 mg/m3
127-18-4)		•
Estonia. OELs. Occupational Exp 2001)	osure Limits of Hazardous Sul	10 ppm ostances. (Annex of Regulation No. 293 of 18 Septemb
Components	Туре	Value
Perchloroethylene (CAS	STEL	170 mg/m3
127-18-4)		05
	TWA	25 ppm 70 mg/m3
	INV	10 ppm
Finland. Workplace Exposure Lin	nits	· o bb
•		
Components	Type	Value
Perchloroethylene (CAS 127-18-4)	TWA	70 mg/m3
· · ·,		10 ppm
France. Threshold Limit Values (VLEP) for Occupational Expos	ure to Chemicals in France, INRS ED 984
Components	Туре	Value
Perchloroethylene (CAS	VME	335 mg/m3
127-18-4)		•
		50 ppm
Germany. TRGS 900, Limit Value	s in the Ambient Air at the Wor	kplace
Components	Туре	Value
Perchloroethylene (CAS	AGW	138 mg/m3
127-18-4)		20 ppm
Greece. OELs (Decree No. 90/199	Q as amondod)	20 μμπ
·	·	
Components	Туре	Value
Perchloroethylene (CAS	STEL	1000 mg/m3
127-18-4)		150 ppm
	TWA	335 mg/m3
		50 ppm
Hungary. OELs. Joint Decree on	Chemical Safety of Workplaces	
Components	Туре	Value
Perchloroethylene (CAS	STEL	50 mg/m3
127-18-4)		•
	TWA	50 mg/m3
celand. OELs. Regulation 154/19	99 on occupational exposure I	imits
Components	Туре	Value
Perchloroethylene (CAS	TWA	70 mg/m3
127-18-4)		•
		10 ppm
reland. Occupational Exposure L	imits	
Components	Туре	Value
Perchloroethylene (CAS	STEL	678 mg/m3
127-18-4)		100 ppm
		LUCLUCIO III

Components	Туре	Value	
	TWA	170 mg/m3	
		25 ppm	
aly. OELs			
Components	Туре	Value	
Perchloroethylene (CAS 27-18-4)	STEL	100 ppm	
,	TWA	25 ppm	
atvia. OELs. Occupational expo	sure limit values of chemical s	ubstances in work environment	
Components	Туре	Value	
Perchloroethylene (CAS 27-18-4)	TWA	10 mg/m3	
ithuania. OELs. Limit Values fo	r Chemical Substances, Gener	al Requirements (Hygiene Norm HN 23:2007)	
Components	Туре	Value	
Perchloroethylene (CAS	STEL	170 mg/m3	
27-18-4)		25 ppm	
	TWA	70 mg/m3	
		10 ppm	
Norway. Administrative Norms fo	or Contaminants in the Workpla	• •	
Components	Туре	Value	
•	, ,	14.40	
Perchloroethylene (CAS	TLV	40 mg/m3	
Perchloroethylene (CAS 127-18-4)	TLV	40 mg/m3	
27-18-4)		6 ppm	itios in
127-18-4)		·	ities in
27-18-4) Poland. MACs. Minister of Labou Vorking Environment Components	r and Social Policy Regarding Type	6 ppm	ities in
Poland. MACs. Minister of Labou Norking Environment Components Perchloroethylene (CAS	r and Social Policy Regarding	6 ppm Maximum Allowable Concentrations and Intens	ities in
27-18-4) Poland. MACs. Minister of Labou Vorking Environment Components Perchloroethylene (CAS	r and Social Policy Regarding Type	6 ppm Maximum Allowable Concentrations and Intensi Value	ities in
27-18-4) Poland. MACs. Minister of Labou Vorking Environment Components Perchloroethylene (CAS 27-18-4)	Type STEL TWA	6 ppm Maximum Allowable Concentrations and Intensity Value 170 mg/m3 85 mg/m3	ities in
27-18-4) Poland. MACs. Minister of Labou Working Environment Components Perchloroethylene (CAS 27-18-4) Portugal. VLEs. Norm on occupa	Type STEL TWA	6 ppm Maximum Allowable Concentrations and Intensity Value 170 mg/m3 85 mg/m3	ities in
27-18-4) Poland. MACs. Minister of Labou Working Environment Components Perchloroethylene (CAS 27-18-4) Portugal. VLEs. Norm on occupa Components Perchloroethylene (CAS	Type STEL TWA tional exposure to chemical ag	6 ppm Maximum Allowable Concentrations and Intensi Value 170 mg/m3 85 mg/m3 Jents (NP 1796)	ities in
Poland. MACs. Minister of Labou Norking Environment Components Perchloroethylene (CAS 127-18-4) Portugal. VLEs. Norm on occupa Components Perchloroethylene (CAS	Type STEL TWA tional exposure to chemical ac Type STEL	6 ppm Maximum Allowable Concentrations and Intensi Value 170 mg/m3 85 mg/m3 ents (NP 1796) Value 100 ppm	ities in
27-18-4) Poland. MACs. Minister of Labou	Type STEL TWA tional exposure to chemical ag Type STEL Type Type STEL TWA	6 ppm Maximum Allowable Concentrations and Intensit Value 170 mg/m3 85 mg/m3 Jents (NP 1796) Value 100 ppm 25 ppm	ities in
Poland. MACs. Minister of Labour Working Environment Components Perchloroethylene (CAS 27-18-4) Portugal. VLEs. Norm on occupate Components Perchloroethylene (CAS 27-18-4) Romania. OELs. Protection of working the second of the	Type STEL TWA tional exposure to chemical ag Type STEL Type Type STEL TWA	6 ppm Maximum Allowable Concentrations and Intensit Value 170 mg/m3 85 mg/m3 Jents (NP 1796) Value 100 ppm 25 ppm	ities in
Poland. MACs. Minister of Labour Norking Environment Components Perchloroethylene (CAS 127-18-4) Portugal. VLEs. Norm on occupate Components Perchloroethylene (CAS 127-18-4) Romania. OELs. Protection of working Components Perchloroethylene (CAS 127-18-4) Perchloroethylene (CAS 127-18-4)	Type STEL TWA tional exposure to chemical ag Type STEL Type STEL TWA orkers from exposure to chemical	6 ppm Maximum Allowable Concentrations and Intensit Value 170 mg/m3 85 mg/m3 Jents (NP 1796) Value 100 ppm 25 ppm cal agents at the workplace	ities in
Poland. MACs. Minister of Labour Norking Environment Components Perchloroethylene (CAS 127-18-4) Portugal. VLEs. Norm on occupate Components Perchloroethylene (CAS 127-18-4) Romania. OELs. Protection of working Components Perchloroethylene (CAS 127-18-4) Perchloroethylene (CAS 127-18-4)	Type STEL TWA tional exposure to chemical ag Type STEL TWA trype STEL TWA orkers from exposure to chemic	6 ppm Maximum Allowable Concentrations and Intensi Value 170 mg/m3 85 mg/m3 ents (NP 1796) Value 100 ppm 25 ppm cal agents at the workplace Value 100 mg/m3 14 ppm	ities in
Poland. MACs. Minister of Labou Working Environment Components Perchloroethylene (CAS 127-18-4) Portugal. VLEs. Norm on occupation o	Type STEL TWA tional exposure to chemical ag Type STEL TWA Type STEL TWA TWA TWA TWA TWA TWA TYPE TYPE TO CHEMICAL TO CHEMICAL TYPE	6 ppm Maximum Allowable Concentrations and Intensi Value 170 mg/m3 85 mg/m3 Jents (NP 1796) Value 100 ppm 25 ppm cal agents at the workplace Value 100 mg/m3 14 ppm 50 mg/m3	ities in
Poland. MACs. Minister of Labou Norking Environment Components Perchloroethylene (CAS 127-18-4) Portugal. VLEs. Norm on occupa Components Perchloroethylene (CAS 127-18-4) Romania. OELs. Protection of wo	Type STEL TWA tional exposure to chemical ag Type STEL TWA trype STEL TWA orkers from exposure to chemic	6 ppm Maximum Allowable Concentrations and Intensi Value 170 mg/m3 85 mg/m3 ents (NP 1796) Value 100 ppm 25 ppm cal agents at the workplace Value 100 mg/m3 14 ppm	ities in
Poland. MACs. Minister of Labour Working Environment Components Perchloroethylene (CAS 27-18-4) Portugal. VLEs. Norm on occupate Components Perchloroethylene (CAS 27-18-4) Romania. OELs. Protection of working Components Perchloroethylene (CAS 27-18-4)	Type STEL TWA tional exposure to chemical ag Type STEL TWA orkers from exposure to chemic Type STEL TWA TWA Type STEL TWA Type STEL TWA Type STEL	6 ppm Maximum Allowable Concentrations and Intensi Value 170 mg/m3 85 mg/m3 Jents (NP 1796) Value 100 ppm 25 ppm cal agents at the workplace Value 100 mg/m3 14 ppm 50 mg/m3	
Poland. MACs. Minister of Labour Norking Environment Components Perchloroethylene (CAS 127-18-4) Portugal. VLEs. Norm on occupate Components Perchloroethylene (CAS 127-18-4) Romania. OELs. Protection of working Components Perchloroethylene (CAS 127-18-4) Romania. OELs. Decree of the go	Type STEL TWA tional exposure to chemical ag Type STEL TWA orkers from exposure to chemic Type STEL TWA TWA Type STEL TWA Type STEL TWA Type STEL	6 ppm Maximum Allowable Concentrations and Intensi Value 170 mg/m3 85 mg/m3 Jents (NP 1796) Value 100 ppm 25 ppm cal agents at the workplace Value 100 mg/m3 14 ppm 50 mg/m3 7 ppm	
Poland. MACs. Minister of Labour Working Environment Components Perchloroethylene (CAS 27-18-4) Portugal. VLEs. Norm on occupation of the Components Perchloroethylene (CAS 27-18-4) Romania. OELs. Protection of working Components Perchloroethylene (CAS 27-18-4) Romania. OELs. Decree of the goingents	Type STEL TWA tional exposure to chemical ag Type STEL TWA orkers from exposure to chemic Type STEL TWA TWA Type STEL TWA Type STEL TWA Type STEL	6 ppm Maximum Allowable Concentrations and Intensity Value 170 mg/m3 85 mg/m3 ents (NP 1796) Value 100 ppm 25 ppm cal agents at the workplace Value 100 mg/m3 14 ppm 50 mg/m3 7 ppm lic concerning protection of health in work with	

(Official Gazette of the Republic of Slovenia) Components Туре Value

Perchloroethylene (CAS 127-18-4) TWA 345 mg/m3 50 ppm

Spain. Occupational Exposure Limits

Components	Туре	Value	
Perchloroethylene (CAS 127-18-4)	STEL	689 mg/m3	
,		100 ppm	
	TWA	172 mg/m3	
		25 ppm	
Sweden. Occupational Exposure	Limit Values		
Components	Туре	Value	
Perchloroethylene (CAS 127-18-4)	STEL	170 mg/m3	
•		25 ppm	
	TWA	70 mg/m3	
		10 ppm	
Switzerland. SUVA Grenzwerte a	m Arbeitsplatz		
Components	Туре	Value	
Perchloroethylene (CAS 127-18-4)	STEL	690 mg/m3	
		100 ppm	
	TWA	345 mg/m3	
		50 ppm	
UK. EH40 Workplace Exposure L	imits (WELs)		
		Value	
Components	Туре	value	
Perchloroethylene (CAS	Type STEL	689 mg/m3	
Components Perchloroethylene (CAS 127-18-4)			
Perchloroethylene (CAS		689 mg/m3	

Biological limit values

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Components	Value	Determinant	Specimen	Sampling time
Perchloroethylene (CAS 127-18-4)	7 mg/l	Acide trichloroacétiq ue	Urine	*
	1 mg/l	Perchloroéthylè ne	Blood	*

50 ppm

Germany. TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling time
Perchloroethylene (CAS 127-18-4)	1 mg/l	Tetrachlorethen	Blood	*

^{* -} For sampling details, please see the source document.

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	
Butene, homopolymer (9003-29-6)	CAS25 %	red blood cell or total blood acetylcholinest erase activity (EC. 3.1.1.7.)	Reduction from individual baseline activity in red blood cells	*	
Perchloroethylene (CAS 127-18-4)	S 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, please see the source document.

^{* -} For sampling details, please see the source document.

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Components	Value	Specimen	Sampling time
Perchloroethylene (CAS 127-18-4)	7 mg/l	Urine	*
	1 mg/l	Blood	*
* - For sampling details, ple	ease see the	source document.	
commended monitoring	Follows	standard monitoring	procedures.

Rec

procedures

Not available. Derived no-effect level (DNEL) Predicted no effect Not available.

concentrations (PNECs)

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 Gray pliable semi-solid with ether like odor.

Physical state Solid.

Form Pliable semi-solid. Colour Grey. Odour Ether-like.

Odour threshold Not available. Not applicable. Not available. Melting point/freezing point

Initial boiling point and boiling

248,9 °C (480 °F)

range

200,6 °C (393 °F) Flash point **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.

(%)

Not applicable. Vapour pressure Not applicable. Vapour density

Relative density 0,85

Slightly soluble in water. Solubility(ies)

Partition coefficient No data available.

(n-octanol/water)

Decomposition temperature Not available. Not applicable. Viscosity **Explosive properties** Not available. **Oxidizing properties** Not available.

No relevant additional information available. 9.2. Other information

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 None in particular. 10.5. Incompatible materials None known. 10.6. Hazardous None known. decomposition products

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Ingestion May cause discomfort if swallowed.

Dust may irritate throat and respiratory system and cause coughing. Inhalation

Prolonged skin contact may cause irritation. Skin contact

Direct contact with eyes may cause temporary irritation. Eye contact

May cause redness and pain. **Symptoms**

11.1. Information on toxicological effects

Acute toxicity May cause discomfort if swallowed.

Test results Components **Species**

Perchloroethylene (CAS 127-18-4)

Acute

Inhalation

LC50 Rat 4100 mg/l, 6 Hours

Oral

LD50 Rat 2400 mg/kg

Skin corrosion/irritation Prolonged exposure may cause skin irritation.

Serious eye damage/irritation Direct contact with eyes may cause temporary irritation.

Respiratory sensitisation Not classified.

Skin sensitisation Not a skin sensitiser. Germ

cell mutagenicity Not classified.

Suspected of causing cancer. Carcinogenicity IARC Monographs. Overall Evaluation of Carcinogenicity

> Perchloroethylene (CAS 127-18-4) 2A Probably carcinogenic to humans.

Reproductive toxicity Not classified. Not classified. Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Not available. Aspiration hazard Mixture versus substance

information

Not available.

Not available. Other information

SECTION 12: Ecological information

12.1. Toxicity Toxic to aquatic life with long lasting effects.

Valve Pack 4 Version No.: 00 Product Species Test results

VALVE PACK B (CAS Mixture)

Aquatic

Crustacea EC50 Daphnia 20,96 mg/l, 48 hours, estimated
Fish LC50 Fish 39,0965 mg/l, 96 hours, estimated

Components Species Test results

Perchloroethylene (CAS 127-18-4)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 6,1 - 9 mg/l, 48 hours Fish LC50 Flagfish (Jordanella floridae) 4 mg/l, 96 hours

12.2. Persistence and No data available.

degradability

12.3. Bioaccumulative potential No data available. **Partition coefficient** No data available.

n-octanol/water (log Kow)

Perchloroethylene (CAS 127-18-4) 3,4

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

Mobility in general The product is insoluble in water.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

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

This substance/mixture is not intended to be transported in bulk.

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

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

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

Perchloroethylene (CAS 127-18-4)

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

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

Perchloroethylene (CAS 127-18-4)

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

Perchloroethylene (CAS 127-18-4)

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

Perchloroethylene (CAS 127-18-4)

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. 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 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 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 R40 Limited evidence of a carcinogenic effect.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

H351 - Suspected of causing cancer.

H411 - Toxic to aquatic life with long lasting effects. Follow training instructions when handling this material.

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.

Valve Pack 4 Version No.: 00