

Issue date: 18/11/2024

Section 1 Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

BX1 Inhibitor compound
 UFI: HMT7-3WTD-7S0P-TSPT

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

Corrosion inhibitor in electrical joints / connections.

1.3. Details of the supplier of the safety data sheet

Company information

Prysmian Cables and Systems Ltd
 Oak Road, Wrexham Industrial Estate,
 Wrexham LL13 9PH

Prysmian Cavi e Sistemi Italia S.r.l.
 Via Chiese 6
 20126 – Milano
 Italy

Telephone

+44 (0) 1978 66 2375

Email

sa.clpsd01gb@prysmiangroup.com

1.4. Emergency telephone number

Emergency telephone number

+44 (0)1978 66 2216

Poison Centre Information

Country	Organisation	Address	Contact No.
United Kingdom	National Poisons Information Service (Birmingham)	National Poisons Information Service, City Hospital, Dudley Road, B18 7QH, England	0344 892 0111*
Republic of Ireland	Poisons Information Centre of Ireland	National Poisons Information Centre, Beaumont Hospital, Beaumont Road, Dublin 9, Ireland	01 809 2166 01 837 9964*
France	French National Products and Composition Database (B.N.P.C.); French Poison and Toxicovigilance Centre Network	Centre Antipoison de Nancy, CHRU de Nancy, Hôpital Central, 29 av. de Lattre de Tassigny, 54000 NANCY, France	+33 3 83 85 21 92
Germany	BfR Bundesinstitut für Risikobewertung	Max-Dohrn-Str. 8-10, 10589 Berlin	+49 30 18412 0
Italy	Istituto Superiore di Sanità (ISS)	Viale Regina Elena 299, Rome, Italy	
Spain	Instituto Nacional de Toxicología y Ciencias Forenses (INTCF)	Calle José Echegaray 4, 28032 Las Rozas de Madrid, Madrid, Spain	+34 917689800

* For use by healthcare professionals only.

Section 2 Hazards identification

This product is a mixture.

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (EU "CLP" Regulation):

Acute aquatic toxicity	Hazard Category 1	H400
Chronic aquatic toxicity	Hazard Category 1	H410

For full text of hazard statements see Section 16.

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008 (EU "CLP" Regulation):

Signal Word: Warning

GHS Pictogram



Hazard Statement: Very toxic to aquatic life with long lasting effects. (H410)

Precautionary Statement (Prevention): Avoid release to the environment. (P273)

Precautionary Statement (Response): Collect spillage. (P391)

Precautionary Statement (Disposal): Dispose of contents / container to an approved waste disposal plant. (P501)

2.3. Other hazards

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB. The mixture does not contain substances identified as having endocrine disrupting properties.

Section 3 Composition / information on ingredients

This product is a mixture.

Chemical Name	CAS Number	EC Number	REACH Registration Number	Hazard Class/ Category /Statement	Concentration (w/w%)
Zinc powder	7440-66-6	231-175-3	01-2119467174-37-XXXX	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	50 - 55
Distillates, (petroleum), hydrotreated heavy naphthenic *	64742-52-5	265-155-0	01-2119467170-45-XXXX		36.633
Mica	12001-26-2	601-648-2			5-10
Zinc oxide	1314-13-2	215-222-5	01-2119463881-32-XXXX	Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H410 (M=10)	< 2.575
Talc	14807-96-6	238-877-9	01-2120140278-58-XXXX		1 - 5
Calcium oxide	1305-78-8	215-138-9	01-2119475325-36-XXXX	Skin Corr. 1; H314 Eye Dam. 1; H318	0.814 - 0.831
Lubricating oils, petroleum, hydrotreated spent	64742-58-1	265-161-3	01-2120947997-29-XXXX		0.179 - 1.199
Lead monoxide**	1317-36-8	215-267-0	01-2119531110-62-XXXX	Repr. 1A; H360Df Acute Tox. 4 (Inhalation); H332 Acute Tox. 4 (Oral); H302 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.098
Cadmium oxide, stabilised	1306-19-0	215-146-2	01-2119486766-19-XXXX	Acute Tox. 3 (Oral); H301 Acute Tox. 2 (Inhal.); H330 Muta. 2; H341 Carc. 1B; H350 Repr. 2; H361fd STOT RE 1; H372 Aquatic Acute 1; H400 (M=10) Aquatic Chronic 1; H410 (M=10)	< 0.031
Calcium carbonate	1317-65-3	215-279-6	01-2119486795-18-XXXX		0.017
Magnesium oxide	1309-48-4	215-171-9			0.017
Quartz (conc. respirable crystalline silica 1 - 10%)	14808-60-7	238-878-4	01-2120770509-45-XXXX		0.001 - 0.004

* The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered.

* The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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Chemical Name	CAS Number	EINECS/ELINCS Number	REACH Registration Number	Hazard Category/Statement	Specific Concentration Limit (%)
Lead monoxide	1317-36-8	215-267-0	01-2119531110-62-XXXX	STOT RE 2, H373	$0.5 \leq C < 100$
				Repr. 2, H361f	$2.5 \leq C < 100$

Section 4 First aid measures

4.1. Description of first aid measures

General information: Get medical advice/attention if you feel unwell. Show this data sheet to the doctor in attendance.

Skin Contact: Remove contaminated and launder before re-use. Wash skin with plenty of water. If necessary, seek medical attention.

Eye Contact: Flush eyes with plenty of water until residual material is gone. Seek medical attention if irritation persists.

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Ingestion: Wash out mouth immediately. Call a poison centre or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed.

No specific effects and/or symptoms have been reported or are known.

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

Treat symptomatically.

Section 5 Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, dry powder, foam.

Unsuitable extinguishing media: Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: toxic fumes may be released.

5.3. Advice for firefighters

Do not attempt to take action without suitable protective equipment. Wear self-contained breathing apparatus. Wear complete protective clothing.

Section 6 Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non emergency personnel**

Exercise caution. Spill area may be slippery. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Do not attempt to take action without suitable protective equipment. Wear self-contained breathing apparatus. Wear complete protective clothing. See Section 8 for information on personal protective equipment.

6.2. Environmental precautions

Avoid release into the environment.

6.3. Methods and material for containment and cleaning up

Collect spillage. Mechanically recover the product. Dispose of materials or solid residues at an authorised site.

6.4. Reference to other sections

See Section 13 for disposal information.

Section 7 Handling and storage**7.1. Precautions for safe handling**

Ensure good ventilation of the workstation. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

See Section 1.2

Section 8 Exposure controls / personal protection

8.1. Control parameters

Cadmium oxide:

	8 Hour TWA	15 Min STEL
Cadmium oxide fume (as Cd)	0.025 mg/m ³	0.05 mg/m ³
Carc (Capable of causing cancer and/or heritable genetic damage)		

Mica:

	8 Hour TWA	15 Min STEL
Respirable Dust	0.8 mg/m ³	-
Total Inhalable	10 mg/m ³	-

Talc:

	8 Hour TWA	15 Min STEL
Respirable Dust	1 mg/m ³	-

Calcium oxide:

	8 Hour TWA	15 Min STEL
Calcium oxide	2 mg/m ³	-
Respirable fraction	1 mg/m ³	4 mg/m ³

Calcium carbonate:

	8 Hour TWA	15 Min STEL
Respirable	4 mg/m ³	-
Inhalable Dust	10 mg/m ³	-

Magnesium oxide (as Mg):

	8 Hour TWA	15 Min STEL
Respirable Dust	4 mg/m ³	-
Inhalable Dust Fume	10 mg/m ³	-

Quartz (conc. respirable crystalline silica 1 - 10%):

	8 Hour TWA	15 Min STEL
Silica, respirable crystalline (Respirable fraction)	0.1 mg/m ³	-

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure good ventilation of the workstation.

8.2.2. Individual protection measures

Eye protection:

Wear eye protection.

Skin protection:

Wear suitable protective clothing.

Wear Neoprene (HNBR) or nitrile rubber (NBR) gloves.

Permeation: 2 (>30 min). Thickness: 0.3-0.6 mm

Respiratory protection: No respiratory protection needed under normal use conditions.
Thermal hazards: No additional information available.

8.2.3. Environmental exposure controls

Avoid release to the environment.

Section 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Solid
Colour:	Grey
Odour:	Faint petroleum
Odour threshold:	No data available
Melting point:	No data available
Freezing point:	Not applicable
Boiling point:	No data available
Flammability:	Non-flammable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Flash point:	> 221°C
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
pH:	No data available
Viscosity, kinematic:	Not applicable
Solubility:	Insoluble in water
Partition coefficient n-octanol/water, (Log K _{ow}):	No data available
Vapour pressure:	No data available
Vapour pressure at 50°C	No data available
Density:	No data available
Relative density:	No data available
Relative vapour density at 20°C	Not applicable
Particle characteristics	Does not contain nanomaterials

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available.

9.2.2. Other safety characteristics

VOC Content: < 0.1%

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

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see Section 7).

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Oral: Not classified

Dermal: Not classified

Inhalation: Not classified

Component	Test	Route	Species	Result	Details
Zinc	LD50	Oral	Rat	> 2000 mg/kg	OECD Guideline 401
	LC50	Inhalation		> 5.41 mg/L air	OECD Guideline 403
Mica	LD50	Oral		> 5000 mg/kg	Literature study
Talc	LD50	Oral		> 5000 mg/kg bodyweight	OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, 14 day(s)
		Dermal		> 2000 mg/kg bodyweight	OECD 402: Acute Dermal Toxicity, 24h, 14 day(s)
	LC50	Inhalation (Aerosol)		> 2.1 mg/L	OECD 403: Acute Inhalation Toxicity, 4h, 15 day(s)
		Inhalation (Dust/Mist)		> 2.1 mg/L	Source: ECHA
Distillates, (petroleum), hydrotreated heavy naphthenic	LD50	Oral		> 5000 mg/kg bodyweight	OECD Guideline 401 (Acute Oral Toxicity), OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method)

Skin corrosion/irritation:

Not classified (Based on available data classification criteria are not met)

Component	pH
Talc	9

Serious eye damage/irritation:

Not classified (Based on available data classification criteria are not met)

Component	pH
Talc	9

Sensitisation data:

Not classified (Based on available data classification criteria are not met)

Germ cell mutagenicity

Not classified (Based on available data classification criteria are not met)

Carcinogenicity

Not classified (Based on available data classification criteria are not met)

Component	IARC Group
Talc	3 - Not classifiable

Reproductive toxicity

Not classified (Based on available data classification criteria are not met)

STOT-single exposure

Not classified (Based on available data classification criteria are not met)

STOT-repeated exposure

Not classified (Based on available data classification criteria are not met)

Component	Route	Species	Duration	Result	Details
Zinc	Oral	Rat	90 days	NOAEL: 31.52 mg/kg bodyweight	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Distillates, (petroleum), hydrotreated heavy naphthenic	Oral	Rat, male	90 days	LOAEL: 125 mg/kg bodyweight	Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

Aspiration hazard

Not classified (Based on available data classification criteria are not met)

Component	Viscosity, kinematic (mm ² /s)
BX1	Not applicable
Zinc	> 72.464
Distillates, (petroleum), hydrotreated heavy naphthenic	1.99 - 847 Temp.: 40 °C, Parameter: mm ² /s

11.2. Information on other hazards

The mixture does not contain substances identified as having endocrine disrupting properties.

Section 12 Ecological information

12.1. Toxicity

Ecology, general: Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short term (acute): Very toxic to aquatic life.

Hazardous to the aquatic environment, long term (chronic): Very toxic to aquatic life with long lasting effects.

Component	Test	Species	Duration	Result	Details
Zinc	LC50	Fish [1]		0.169 mg/L	
	LC50	Fish [2]		0.78 mg/L	
	EC50	Crustacea [1]		1.833 mg/L	
	ErC50	Algae		0.15 mg/L	
Talc	LC50	Fish [1]	96 hours	89,581 mg/L	ECOSAR v1.00, Pisces, Fresh water, QSAR
	EC50	Algae [1]	96 hours	7203 mg/L	ECOSAR v1.00, Algae, Fresh water, QSAR

12.2. Persistence and degradability

Not rapidly degradable.

Component	Persistence and degradability	Chemical oxygen demand (COD)	ThOD	BOD (% of ThOD)
Mica	Biodegradability: not applicable.	Not applicable (inorganic)	Not applicable (inorganic)	-
Talc	Biodegradability in soil: not applicable	Not applicable	Not applicable	Not applicable

12.3. Bioaccumulative potential

Component	BCF - Other aquatic organisms [1]	Partition coefficient n-octanol/water (Log Pow)	Bioaccumulative potential
Zinc	116	-0.47	-
Mica	-	-	No data available
Talc	3.162 L/kg (BCFBAF v3.01, Fresh water, QSAR)	-9.4 (QSAR, KOWWIN, 25 °C)	Low potential for bioaccumulation (BCF < 500)

12.4. Mobility in soil

Component	Organic Carbon Normalized Adsorption Coefficient (Log Koc)
Mica	No (test) data on mobility of the substance available.
Talc	1.5 (log Koc, SRC PCKOCWIN v2.0, QSAR)

12.5. Results of PBT and vPvB assessment

This mixture does not contain any REACH registered substances that are assessed to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

The mixture does not contain substances identified as having endocrine disrupting properties.

12.7. Other adverse effects

No data available.

Section 13 Disposal considerations**13.1. Waste treatment methods**

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Section 14 Transport information

14.1. UN number or ID number

UN 3077

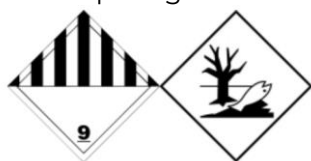
14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS: Zinc)

14.3. Transport hazard class

Class 9

Hazard pictogram:



14.4. Packing group

Packing group III.

14.5. Environmental hazards

Dangerous for the environment. Marine pollutant.

14.6. Special precautions for user

Overland Transport - ADR

Classification code:

Special provisions:

Limited quantities:

Excepted quantities:

Packing instructions:

Special packing provisions:

Mixed packing provisions:

Portable tank and bulk container instructions:

Portable tank and bulk container special provisions:

Tank code:

Vehicle for tank carriage:

Transport category:

Special provisions for carriage - Packages:

Special provisions for carriage - Bulk:

Special provisions for carriage - Loading, unloading and handling:

Hazard identification number (Kemler No.):

Orange plates:

Tunnel restriction code:

EAC code:

M7

274, 335, 375, 601

5 kg

E1

P002, IBC08, LP02, R001

PP12, B3

MP10

T1, BK1, BK2, BK3

TP33

SGAV, LGBV

AT

3

V13

VC1, VC

2

90



-

2

Transport by Sea - IMDG

Special provisions:	274, 335, 966, 967, 969
Limited quantities:	5 kg
Excepted quantities:	E1
Packing instructions:	LP02, P002
Special packing provisions:	PP12
IBC packing instructions:	IBC08
IBC special provisions:	B3
Tank instructions:	BK1, BK2, BK3, T1
Tank special provisions:	TP33
EmS-No.:	F-A S-F
Stowage category:	A
Stowage and handling:	SW23

Air Transport - IATA

PCA excepted quantities:	E1
PCA limited quantities:	Y956
PCA limited quantity max net quantity:	30 kg
PCA packing instructions:	956
PCA max. net quantity:	400 kg
CAO packing instructions:	956
CAO max net quantity:	400 kg
Special provisions:	A97, A158, A179, A197, A215
ERG code:	9L

Inland Waterway Transport - ADN

Classification code:	M7
Special provisions:	274, 335, 375, 601
Limited quantities:	5 kg
Excepted quantities:	E1
Carriage permitted:	T (Only in the molten state), B (For carriage in bulk see also 7.1.4.1.)
Equipment required:	PP, A (Only in the case of transport in bulk)
Number of blue cones/lights:	0

Rail Transport - RID

Classification code:	M7
Special provisions:	274, 335, 375, 601
Limited quantities:	5 kg
Excepted quantities:	E1
Packing instructions:	P002, IBC08, LP02, R001
Special packing provisions:	PP12, B3
Mixed packing provisions:	MP10
Portable tank and bulk container instructions:	T1, BK1, BK2, BK3
Portable tank and bulk container special provisions:	TP33
Tank codes for RID tanks:	SGAV, LGBV
Transport category:	3
Special provisions for carriage - Packages:	W13
Special provisions for carriage - Bulk:	VC1, VC2
Special provisions for carriage -Loading, unloading and handling:	CW13, CW31
Colis express (express parcels):	CE11
Hazard identification number:	90

14.7. Transport in bulk according to IMO instruments

No data available.

Section 15 Regulatory information

This Safety Data Sheet has been prepared in accordance with the requirements of regulation (EC) No 1907/2006 as amended.

Labelling elements as classified under Regulation (EC) 1272/2008.

The Workplace exposure Limit given in Section 8 has been taken from the UK HSE document: EH40/2005 Workplace Exposure Limits as amended.

Additional relevant regulations:

Regulation (EC) 790/2009 First Adaptation to Technical Progress (ATP) for CLP regulation

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

None applicable.

15.2. Chemical safety assessment

A chemical safety assessment has not been undertaken for this mixture.

Section 16 Other information**Full text of H-Statements**

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

This SDS (version 7.0) is the 7th version of this SDS for this product.

This information is believed to be accurate and represents the best information available to the company at this time. This information is provided as a guide to the hazards and respective safety precautions relevant to this product. This SDS does not represent any guarantee of performance or specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.