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According to regulation (EC) No. 1272/2008	PRODUCT NAME: Phosphatase Inhibitor	PRODUCT NAME: Phosphatase Inhibitor Cocktail I	

# **SECTION 1 - CHEMICAL IDENTIFICATION**

Phosphatase Inhibitor Cocktail I
P52100
Melford Laboratories Ltd
Bildeston Road, Chelsworth, Ipswich, IP7 7LE, UK
01449 741178
support@melford.co.uk

# **SECTION 2 - HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H227	Flammable liquids	Category 4
H302	Acute toxicity, Oral	Category 4
H315	Skin corrosion/irritation	Category 2
H319	H319 Serious eye damage/eye irritation	

# 2.2 GHS Label elements, including Hazard and Precautionary Statement(s) Pictogram





Signal word: Warning Hazard statement(s)

mazara statement(s)	
H227	Combustible liquid.
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Cause Serious Eye irritation

# Prevention, Response, Storage and Disposal Precautionary Statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.		
P264	Wash skin thoroughly after handling		
P270	Do not eat, drink or smoke when using this product.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.		
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.		
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P321	Specific treatment (see. on this label).		

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P330	Rinse mouth.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.

#### SECTION 3- COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Description: Mixture of substances

No components need to be disclosed according to the applicable regulations. For the full text of the H-Statements mentioned in this **Section 2**: [Hazards Identification].

#### SECTION 4 - FIRST-AID MEASURES

#### 4.1 Description of first aid measures

General advice: Consult a doctor and show this safety data sheet.

- i. **If inhaled:** Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
- ii. **In case of skin contact:** Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.
- iii. In case of eye contact: Flush with copious amounts of water for at least 15 minutes. Consult a doctor.
- iv. **If swallowed:** Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

**4.2** Most important symptoms and effects, both acute and delayed: To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**4.3** Indication of immediate medical attention and special treatment needed: Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

#### 5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

**5.2** Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas, Hydrogen fluoride

**5.3 Precautions for fire-fighters:** Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

5.4 Further information: no data available

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures:** Do not take action without suitable protective clothing - see section 8 of SDS. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid breathing vapors, mist, dust or gas.

**6.2 Environmental precautions:** Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up:** Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4 Reference to other sections: For required PPE see section 8. For disposal see section 13.

# SECTION 7 - HANDLING AND STORAGE

#### 7.1 Precautions for safe handling:

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

**7.2** Conditions for safe storage, including any incompatibilities: Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Store at -20°C (Freezer).

7.3 Specific end use(s): Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

# SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters: Components with workplace control parameters

Component	CAS #	Value	Control parameter	Basis
Dimethyl sulfoxide	67-68-5	TWA	250.000000 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

#### 8.2 Exposure Controls

i. **Appropriate engineering controls:** Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. Ensure laboratory is equipped with a safety shower and eye wash station.

#### 8.3 Personal protective equipment

- i. **Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- ii. **Skin protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166
- iii. **Body Protection:** Wear appropriate protective clothing. Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- iv. Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
- v. Control of environmental exposure: Do not let product enter drains

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# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

# Information on basic physical and chemical properties

Appearance	Liquid	Vapor Pressure	No Data Available
Odor	No Data Available	Vapor Density	No Data Available
Odor Threshold	No Data Available	Relative Density	No Data Available
pH	No Data Available	Water Solubility	No Data Available
Melting / Freezing Point	No Data Available	Partition Coefficient	No Data Available
Initial Boiling Point Range	No Data Available	Auto-Ignition Temperature	No Data Available
Flash Point	No Data Available	Decomposition Temperature	No Data Available
Evaporation Rate	No Data Available	Viscosity	No Data Available
Flammability (Solid, Gas)	No Data Available	Explosive Properties	No Data Available
Upper / Lower Flammability Or Explosive Limits	No Data Available	Oxidizing Properties	No Data Available

# SECTION 10 - STABILITY AND REACTIVITY

**Stability:** Stable under recommended transport or storage conditions. **Conditions to Avoid:** Heat, moisture air or water, incompatibles **Incompatible Materials:** Strong oxidizing agents

# SECTION 11 - TOXICOLOGICAL INFORMATION

Component	LDLO Oral	LC50 Inhalation	LD50 Oral	LD50 Dermal
Cantharidin	0.428 mg/kg (Human)	Not Listed	Not Listed	Not Listed
DMSO	Not Listed	40250 ppm – 4H (Rat)	14,500 mg/kg (Rat)	> 5,000 mg/kg (Rabbit)

# SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity			
Component	Freshwater Algae	Freshwater Fish	Water Flea
DMSO	EC50 96h- 12350 - 25500 mg/L	LC50 96 h -40 g/L	EC50 24h 7000 mg/l
		LC50 96 h-33-37 g/L	

**Persistence and degradability/Bioaccumlative potential/ Mobility in soil:** No data available **Results of PBT and vPvB assessment:** No data available

**Other adverse effects:** May be harmful to the aquatic environment.

**Chronic Toxicity:** There are no known carcinogenic chemicals in this product

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of container and unused contents in accordance with federal, state and local requirements.

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# **SECTION 14 - TRANSPORT INFORMATION**

DOT	TDG	ΙΑΤΑ	IMDG/IMO
Not regulated	Not regulated	Not regulated	Not regulated

#### **SECTION 15 - REGULATORY INFORMATION**

#### USA FEDERAL REGULATION SARA 311/312 HAZARDOUS CATEGORIZATION

Acute Health	Chronic Health	Fire Hazard	Sudden Release Of	Reactive
Hazard	Hazard		Pressure Hazard	Hazard
Yes	Yes	Yes	No	No

# TSCA 12(b)/ Clean Water Act/ Clean Air Act/ OSHA/ CERCLA: Not Applicable

# SARA 313: Not Hazard Class

STATE RIGHT TO KNOW: Not Applicable

California Proposition 65: This product does not contain any Proposition 65 chemicals.

# HMIS Rating

Health hazard	Chronic Health Hazard	Flammability	Physical Hazard
1	*	4	0

# NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
1	4	0

# US DEPARTMENT OF TRANSPORTATION

REPORTABLE QUANTITY (RQ)	DOT MARINE POLLUTANT	DOT SEVER MARINE POLLUTANT
Νο	Νο	Νο

U.S. DEPARTMENT OF HOMELAND SECURITY: This product does not contain any DHS chemicals.

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

# This SDS complies with the requirements of Regulation (EC).

# SECTION 16 - OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Melford Laboratories Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. This product is sold for laboratory research and development purposes use only.