

PROTECTOLOGY LTD.

5, Passage Street, Fowey, Cornwall, PL23 1DE
U.K. Tel +44 1726 832694
Company Registration GB12126194
VAT- Reg. 345992655

E-mail: hello@protectology-uk.com
Web: www.protectology-uk.com



THE HOME OF INNOVATION

MATERIAL SAFETY DATA SHEET

Updated 02 10 2021

Page 1 of 5

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name:	PROGRAPH PE-V-MAX
Company:	PROTECTOLOGY LTD 5 PASSAGE STREET FOWEY PL23 1DE
CONTACT NUMBER:	+44 (01726) 832694

2. COMPOSITION/INFORMATION ON INGREDIENTS

Code Number:	PRO 180
Description:	Antistatic PE On Mold V Concentrate
Chemical Family:	Complex Mixture of Synthetic Hydrocarbon High Molecular Weight Polymers and Micronised Graphene

3. HAZARDS IDENTIFICATION

Human Health Hazards:	Not Classified as Hazardous.
Safety Hazards:	At ambient temperatures there may be slight transient irritation to eyes & skin. Ingestion may cause gastrointestinal irritation and diarrhea. Keep away from sources of heat.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. Keep warm and at rest. If breathing stops or shows signs of failing, give artificial respiration. If there is difficulty in breathing, give oxygen. Obtain medical attention urgently
Skin:	Wipe off as much as possible with clean dry cloth. Wash skin thoroughly with soap and water.
Eyes:	Immediately flood eye with plenty of water for at least 10 minutes, hold the eye open. Obtain medical attention if soreness or redness persists.
Ingestion:	Wash out mouth with water. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Do not induce vomiting obtain medical attention.

PRO 180 Antistatic PE On Mold V Concentrate

5. FIRE FIGHTING MEASURES	
Extinguishing Media:	Use water spray, foam, dry chemical or carbon dioxide keep Containers and surroundings cool with water spray.
Unsuitable Extinguishing Media:	
Protective Equipment:	Wear full protective clothing and self contained breathing apparatus.
Other Information:	De-polymerisation can occur in a fire to produce flammable vapours.

6. ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Wear appropriate protective clothing.
Environmental Precautions:	Try to prevent the material from entering drains or water courses.
Spillage's:	Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE	
Handling:	Avoid breathing mist or vapor from heated material. Adequate ventilation should be provided if there is a risk of mist or aerosol or vapour formulation. Earth all equipment. Avoid contact with skin eyes and clothing. Remove source of ignition. Avoid sparks. Do not smoke. Emergency shower and eye wash facilities should be readily available.
Storage:	Keep away from sources of heat. Store in original containers. Storage area should be cool and well ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
UK Occupational Exposure Standards:	None assigned
Engineering and Control Measures:	Prevent or control exposure. Use of the basic principles of industrial hygiene will enable material to be used safely. Administrative controls and personal protective equipment may also be required. Keep away from food and drink Before breaks and at end of work wash hands and face.
Respiratory Protection:	Respiratory protection if there is a risk of exposure to high vapor concentrations.
Hand Protection:	n/a
Eye Protection:	n/a
Body and Skin Protection:	n/a

PRO 180 Antistatic PE On Mold V Concentrate

9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical State:	Dark Grey viscous paste.
Odour:	Characteristic
Boiling Point:	Decomposition in air begins around 250°C
Flash Point:	>135°C (PMCC)
Specific Gravity:	0.90 - 0.95
Solubility in Water:	Insoluble
10. STABILITY AND REACTIVITY	
Stability:	Stable under normal conditions decomposition in air begins around 250°C.
Conditions to avoid:	Sources of ignition.
Materials to avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Combustion will generate; carbon monoxide and oxides nitrogen, other toxic combustion products are also possible including Hydrogen Cyanide.
11. TOXICOLOGICAL INFORMATION	
Acute Toxicity:	Low order of acute toxicity Similar materials tested: Oral LD50 (rat) >34600mg/kg. Dermal LD50 (rat) >10250mg/kg
Irritancy - Eyes	Data for a closely related material suggest that this product is unlikely to cause irritation of the eye.
Irritancy - Skin	Data available for a related material suggests that this product is unlikely to cause skin irritation.
Chronic Toxicity/Carcinogenicity	In a 2 year rat & dog study, and a 3 generation reproduction study with rats, similar materials caused no adverse effects when fed at levels as high as 2% in the diet. No component of this product at levels >0.1% is defined as a carcinogen by ACGIH, IARC or the European Commission.
Genotoxicity:	No component of this product at levels >0.1% is classified by established regulatory criteria as mutagen.
Reproductive/Development Toxicity:	No component of this product at levels >0.1% is classified by established regulatory criteria as reproductive toxin, nor as a teratogenic nor embryotoxic.

PRO 180 Antistatic PE On Mold V Concentrate

12. ECOLOGICAL INFORMATION	
Mobility:	This product is not likely to move with surface or groundwater flows because of its low water solubility of <1000ppm.
Persistence/Degradability:	Unlikely to biodegrade at a significant rate.
Bio-accumulation	Product is not expected to bioaccumulate.
Ecotoxicity	<p>Tests on the following species gave a 96h LC50 of >10000mg/litre:rainbow trout.</p> <p>Tests on the following species gave a 48h EC50 of >10000/litre:daphnia. (WSF Method) (based on similar materials)</p> <p>Aquatic studies of materials with very low water solubility often refer to the amount of chemical added to the test system not the amount dissolved in water. Most acute aquatic toxicity studies of these have used the water-accommodated fraction (WAF) obtained by mixing the test chemical in water for 20-24 hrs, then siphoning the water for use in the test. The Water soluble fraction (WSF) is a similar approach.</p> <p>These materials are not expected to adversely affect biocrobial activity. Following a modified OECD Method 209, bacterial inhibition using activated sludge microbes was tested with several grades of this material. The tests showed no bacterial inhibition at loadings of up to 25 mg/l, measured through oxygen consumption (respiration). In separate tests the biological oxygen demand (BOD) of the micro-organisms was measured. In these tests there was no evidence of bacterial toxicity, even at loadings of about 200,000mg/l. In addition, an epoxidised from of this material was found to be non-mutagenic and non-toxic to the micro-organism used in the Ames mutagenicity assay, salmonella typhimurium.</p>
13. DISPOSAL CONSIDERATIONS	
Product Disposal:	Dispose of in accordance with all applicable local and national regulations. Incineration is the recommended method of disposal.
Container Disposal:	Labels should not be removed from the containers until they have been cleaned. Do not cut, puncture or weld on or near to the container.
14. TRANSPORT INFORMATION	
UK Transport Information:	Not Classified
UN Class:	Not Classified
ADR/RID - Class:	Not Classified
IMDG - Class	Not Classified
IATA - Class:	Not Classified
15. REGULATORY INFORMATION	
Labeling Information:	Not Classified
EINECS Number:	Polymeric material
TSCA Listing	Yes
AICS/NICNAS Listing	Yes
DSL/ndsl (Canadian) Listing	DSL listed.

PRO 180 Antistatic PE On Mold V Concentrate

16.	OTHER INFORMATION
MSDS first issued Notice	<p>Not recommended for the colouration of food.</p> <p>8th March 2021.</p> <p>This information is presented for your consideration in the belief that it is accurate and reliable; Lysis Technologies Ltd makes no guarantee or warranty, either expressed or implied, of the accuracy or completeness of this information.</p> <p>Individuals receiving this information are expected to use their own judgement in determining the relevancy for a particular circumstance. Accordingly Lysis Technologies Ltd will not be responsible for damages of any kind resulting from the use of, or reliance upon, such information.</p>