

PROTECTOLOGY LTD.

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THE HOME OF INNOVATION

MATERIAL SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Code Number: PRO 190
Description: ANTISTATIC SPRAY READY TO USE IN MOLD
Chemical Family: Mixture of Complex Mixture of Synthetic Hydrocarbon High Molecular Weight Polymers and Micronised Graphene, surfactants and solvents
REACH No. : A registration number is not available for this product as the ink or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
Hazardous Components:

CAS	Name	Amount
123-86-4	Butyl acetate	49%

3. HAZARDS IDENTIFICATION

3.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008

Flammable Liquids (Category 3), H226

Specific target organ toxicity – single exposure (Category 3), central nervous system, H336

3.2 Label Elements:

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal Word

Warning

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Hazard statement(s)	
H226	Flammable liquid and vapour
H336	May cause drowsiness or dizziness.
Precautionary statement(s)	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P370 + P378	In case of fire: Use dry powder or dry sand to extinguish.
Supplemental Hazard Statements	None
3.3 Other Hazards :	
The mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	

4. FIRST AID MEASURES	
4.1: Description of first aid measures	
General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation:	Move to fresh air. If rapid recovery does not occur, obtain medical attention.
Skin:	Wash skin with hand cleanser. Obtain medical advice if irritation persists.
Eyes:	Flush eye with water including under eyelids for at least 15 minutes. If persistent irritation occurs, obtain medical attention.
Ingestion:	Do not induce vomiting. Do not delay. Give water to drink providing patient is conscious. Seek medical advice immediately.
4.2 Most important symptoms and effects, both acute and delayed	
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.	
4.3 Indication of any immediate medical attention and special treatment needed	
No data available	

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 mixture	
Carbon oxides	
5.3. Advice for firefighters	
Wear self-contained breathing apparatus for firefighting if necessary.	
5.4. Further Information	
No data available	

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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions: Wear appropriate protective clothing. Avoid contact with skin, eyes and clothing. Ventilate contaminated areas thoroughly. Eliminate all sources of ignition. Avoid breathing vapours, mist or gas.

6.2 Environmental Precautions: Do not let product enter drains.

6.3 Spillages: Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Finally flush with plenty of water.

7. HANDLING AND STORAGE

Handling: Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

Storage: Storage area should be cool and well ventilated. Store away from sources of heat or ignition. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

Component	CAS-No.	ValueForm of exposure	Control parameters	Basis
n-Butyl acetate	123-86-4	STEL	200 ppm 966 mg/m3	UK. EH40 WEL - Workplace Exposure Limits
		TWA	150 ppm 724 mg/m3	UK. EH40 WEL - Workplace Exposure Limits

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.4 mm Break through time: 480 min
Material tested: Camatril

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 49 min
Material tested: Dermatril® P

Body Protection

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impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical State:	Liquid
Colour:	grey-black
Odour:	fruity
Initial Boiling Point:	124°C (based on solvents used)
Final Boiling Point:	126°C
Flash Point:	23°C (closed cup)
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability: or explosive limits	Upper explosion limit: 7.6 % Lower explosion limit: 1.7%
Auto ignition temp:	210C at 1.013.25
Decomposition temperature:	no data available
Explosive properties:	no data available
Oxidizing Properties:	no data available

10. STABILITY AND REACTIVITY

Reactivity:	no data available
Stability:	Stable under normal use conditions.
Conditions to avoid:	Heat, flames, and sparks.
Materials to avoid:	Strong oxidising agents, Strong reducing agents
Hazardous Decomposition Products:	None known.

11. TOXICOLOGICAL INFORMATION

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11.1 Information on toxicological effects**Acute toxicity**

LD50 Oral - Rat - female - 10,760 mg/kg (OECD Test Guideline 401)

LC50 inhalation – Rat – male and female – 4h - > 21mg/l (OECD Test Guideline 403)

LD50 Dermal - Rabbit - male - 14,112 mg/kg (OECD Test Guideline 402)

Skin corrosion/irritation

Skin – Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes – Rabbit Result: No Irritating to eyes. (OECD Test Guideline 405)

Respiratory or skin sensitisation

No data available

Germ cell mutagenicityAmes test *S. typhimurium* Result: negativeOECD Test Guideline 477 *Drosophila melanogaster* - male and female Result: negative**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Reproductive toxicity - Rat - male and female – Dermal No adverse effect has been observed in chronic toxicity tests.

Developmental Toxicity - Rabbit – Dermal No adverse effect has been observed in chronic toxicity tests.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness. - Central nervous system

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Repeated dose toxicity - Rat - male and female - Oral - No observed adverse effect level - 250 mg/kg

RTECS: KJ9100000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION**12.1 Toxicity:**Toxicity to fish flow-through test LC50 - *Pimephales promelas* (fathead minnow) - 18 mg/l - 96 h (OECD Test Guideline 203)Toxicity to daphnia and other aquatic invertebrates static test EC50 - *Daphnia* (water flea) - 44 mg/l - 48 hToxicity to algae static test EC50 - *Desmodesmus subspicatus* (*Scenedesmus subspicatus*) - 674.7 mg/l - 72 h**12.2 Persistence and degradability**

aerobic - Exposure time 28 d

Result: 83 % - Readily biodegradable (OECD Test Guideline 301D)

12.3 Bioaccumulative potential

Does not bioaccumulate

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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

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This mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**14.1 UN number**

ADR/RID: 1210 IMDG: 1210 IATA:1210

14.2 UN proper shipping name

ADR/RID: Printing Ink IMDG: Printing Ink IATA: Printing Ink

14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA:3

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: no IMDG: Marine Pollutant: no

14.6 Special precautions for user

No data available


15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out 

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for such material used in combination with any other materials or in any process.

It is the policy of Lysis Technologies Ltd wherever possible not to supply inks containing lead and cadmium based pigments. However certain specifications can only be met by using these pigments, and as a consequence inks that contain these pigments have their own Material Safety Data Sheets.

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness