

# PROTECTOLOGY LTD.

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## MATERIAL SAFETY DATA SHEET

Updated 02.10.21

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

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

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**Code Number:** PRO 200  
**Description:** Spray Thinner  
**Chemical Family:** Mixture of 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	90-95%

### 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

## MSDS PRO 200 Spray Thinner

## 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

**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

## MSDS PRO 200 Spray Thinner

**Body Protection**

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**

<b>Physical State:</b>	Liquid
<b>Colour:</b>	transparent
<b>Odour:</b>	fruity
<b>Initial Boiling Point:</b>	124°C (based on solvents used)
<b>Final Boiling Point:</b>	126°C
<b>Flash Point:</b>	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**

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

## MSDS PRO 200 Spray Thinner

**11. TOXICOLOGICAL INFORMATION****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 - &gt; 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 mutagenicity**

Ames test S. typhimurium Result: negative

OECD Test Guideline 477Drosophila 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 h

Toxicity 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

