



SAFETY DATA SHEET ProTect ST

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name ProTect ST

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

Identified uses PC 9a: Coatings and paints, thinners, paint removers. Paint coating for industrial application on metal surfaces.

Uses advised against For professional users only.

1.3. Details of the supplier of the safety data sheet

Supplier Protective Polymers Ltd
Lydford Road
Meadow Lane Industrial Est
Alfreton
Derbyshire
DE55 7RQ

Contact person sds@protectivepolymers.com

1.4. Emergency telephone number

Emergency telephone United Kingdom: 01623 441106 (Mon-Thu 0800 - 1600 hrs, Fri 0800 - 1245 hrs).

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	EPOXY RESIN (Number average MW <= 700), ISO-BUTANOL, NONYLPHENOL
Supplementary precautionary statements	<p>P233 Keep container tightly closed.</p> <p>P240 Ground and bond container and receiving equipment.</p> <p>P241 Use explosion-proof electrical equipment.</p> <p>P242 Use non-sparking tools.</p> <p>P243 Take action to prevent static discharges.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P273 Avoid release to the environment.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P391 Collect spillage.</p>

Other information

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3- EPOXYPROPANE			10-30%
CAS number: 25068-38-6	EC number: 500-033-5	REACH registration number: 01-2119456619-26-XXXX	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411			

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XYLENE		5-10%
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-0000
Classification		
Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Asp. Tox. 1 - H304		
ISO-BUTANOL		1-5%
CAS number: 78-83-1	EC number: 201-148-0	REACH registration number: 01-2119484609-23-0000
Classification		
Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336		
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY		1-5%
CAS number: 64742-48-9	EC number: 265-150-3	REACH registration number: 01-2119486659-16-0000
Classification		
Flam. Liq. 3 - H226 STOT SE 3 - H336 Asp. Tox. 1 - H304		
NONYLPHENOL		1-5%
CAS number: 25154-52-3	EC number: 246-672-0	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Repr. 2 - H361fd Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		

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ETHYLBENZENE <1%
CAS number: 100-41-4 EC number: 202-849-4 REACH registration number: 01-2119489370-35-0000
Classification Flam. Liq. 2 - H225 Acute Tox. 4 - H332 STOT RE 2 - H373 Asp. Tox. 1 - H304
CYCLOHEXANONE <1%
CAS number: 108-94-1 EC number: 203-631-1 REACH registration number: 01-2119453616-35-0000
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H332
CUMENE <1%
CAS number: 98-82-8 EC number: 202-704-5 REACH registration number: 01-2119473983-24-0000
Classification Flam. Liq. 3 - H226 STOT SE 3 - H335 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411
2-METHOXY-1-METHYLETHYL ACETATE <1%
CAS number: 108-65-6 EC number: 203-603-9 REACH registration number: 01-2119475791-29-0000
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person. Get medical attention if any discomfort continues.
Inhalation	Place unconscious person on their side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention if any discomfort continues.

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Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Give milk instead of water if readily available. Keep affected person under observation. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

General information No data available on the mixture itself.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is flammable. Heating may generate flammable vapours.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

For non-emergency personnel Keep unnecessary and unprotected personnel away from the area.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Keep combustible materials away from spillage. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb in vermiculite, dry sand or earth and place into containers. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from oxidising materials, heat and flames. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Avoid contact with oxidising agents.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 220 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 441 mg/m³(Sk)

Occupational Exposure Limits (Ireland):

Long-term exposure limit (8-hour TWA): NAOSH (Ireland) OELV 8 hours; 50 ppm 221 mg/m³

Short-term exposure limit (15-minute): NAOSH (Ireland) OELV-15 min 100 ppm 442 mg/m³

ISO-BUTANOL

Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m³

Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m³

Long-term exposure limit (8-hour TWA): NAOSH (Ireland) OELV 8 hours; 50 ppm 150 mg/m³

Long-term exposure limit (8-hour TWA): NAOSH (Ireland) OELV-15 min 75 ppm 225 mg/m³

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY

Long-term exposure limit (8-hour TWA): WEL 1000 mg/m³

ETHYLBENZENE

Long-term exposure limit (8-hour TWA): WEL 100 ppm 441 mg/m³

Short-term exposure limit (15-minute): WEL 125 ppm 552 mg/m³

Sk

Occupational Exposure Limits (Ireland):

Long-term exposure limit (8-hour TWA): NAOSH (Ireland) OELV 8 hours; 100 ppm 442 mg/m³

Short-term exposure limit (15-minute): NAOSH (Ireland) OELV-15 min 200 ppm 884 mg/m³

CYCLOHEXANONE

Long-term exposure limit (8-hour TWA): WEL 10 ppm(Sk)

Short-term exposure limit (15-minute): WEL 20 ppm(Sk)

CUMENE

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk) 125 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 250 mg/m³(Sk)

2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 274 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 548 mg/m³(Sk)

Occupational Exposure Limits (Ireland):

Long-term exposure limit (8-hour TWA): NAOSH (Ireland) OELV 8 hours; 50 ppm 275 mg/m³

Short-term exposure limit (15-minute): NAOSH (Ireland) OELV-15 min 100 ppm 550 mg/m³

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WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

Ingredient comments WEL = Workplace Exposure Limits

4,4'-ISOPROPYLIDENEDIPHENOL, OLIGOMERIC REACTION PRODUCTS WITH 1-CHLORO-2,3-EPOXYPROPANE (CAS: 25068-38-6)

DNEL	<p>Industry - Dermal; Short term systemic effects: 8.33 mg/kg/day Industry - Inhalation; Short term systemic effects: 12.25 mg/m³ Industry - Dermal; Long term systemic effects: 8.33 mg/kg/day Industry - Inhalation; Long term systemic effects: 12.25 mg/m³ Consumer - Dermal; Short term systemic effects: 3.571 mg/kg/day Consumer - Oral; Short term systemic effects: 0.75 mg/kg/day Consumer - Dermal; Long term systemic effects: 3.571 mg/kg/day Consumer - Oral; Long term systemic effects: 0.75 mg/kg/day</p>
PNEC	<p>Fresh water; 0.006 mg/l marine water; 0.0006 mg/l Intermittent release; 0.018 mg/l STP; 10 mg/l Sediment (Freshwater); 0.996 mg/l Sediment (Marinewater); 0.0996 mg/l Soil; 0.196 mg/kg</p>

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY (CAS: 64742-48-9)

DNEL	<p>Workers - Dermal; Long term systemic effects: 208 mg/kg Workers - Inhalation; Long term systemic effects: 871 mg/m³ General population - Dermal; Long term systemic effects: 125 mg/kg General population - Inhalation; Long term systemic effects: 185 mg/m³ General population - Oral; Long term systemic effects: 125 mg/kg</p>
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HYDROCARBONS, C9-C11, n-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS

DNEL	<p>Industry - Dermal; Long term systemic effects: 208 mg/kg/day Industry - Inhalation; Long term systemic effects: 871 mg/m³ Consumer - Dermal; Long term systemic effects: 125 mg/kg/day Consumer - Inhalation; Long term systemic effects: 185 mg/m³ Consumer - Oral; Long term systemic effects: 125 mg/kg/day</p>
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8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients. All handling should only take place in well-ventilated areas.

Eye/face protection

Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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Hand protection	Wear protective gloves. To protect hands from chemicals, gloves should comply with European Standard EN374. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Gloves made from the following material may provide suitable chemical protection: Butyl Rubber; thickness 0.5mm minimum. PVC; thickness 0.5mm minimum. Viton rubber (fluoro rubber). Neoprene. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.
Respiratory protection	Wear a respirator fitted with the following cartridge: Organic vapour filter.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Silver.
Odour	Characteristic.
Initial boiling point and range	108°C
Flash point	25°C Closed cup.
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.7% Upper flammable/explosive limit: 10.9%
Vapour pressure	Not available.
Relative density	1.42 - 1.44
Solubility(ies)	Immiscible with water.
Partition coefficient	Not available.
Viscosity	Kinematic viscosity > 20.5 mm ² /s.

9.2. Other information

Other information	No additional information
Volatile organic compound	This product contains a maximum VOC content of 228 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	See the other subsections of this section for further details.
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10.2. Chemical stability

Stability	No particular stability concerns.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal conditions of storage and use, no hazardous reactions will occur.
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10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Avoid contact with the following materials: Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 43,290.04

Acute toxicity - dermal

ATE dermal (mg/kg) 18,818.86

Acute toxicity - inhalation

ATE inhalation (gases ppm) 76,986.25

ATE inhalation (vapours mg/l) 188.19

ATE inhalation (dusts/mists mg/l) 25.66

General information Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact Product has a defatting effect on skin. May cause allergic contact eczema. Irritating to skin. May cause sensitisation by skin contact.

Eye contact Irritating to eyes.

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity No data on the mixture itself.

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

Mobility No data available.

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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

UN No. (ADN) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PAINT

Proper shipping name (IMDG) PAINT

Proper shipping name (ICAO) PAINT

Proper shipping name (ADN) PAINT

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID classification code F1

ADR/RID label 3

IMDG class 3

ICAO class/division 3

ADN class 3

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

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ICAO packing group III

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number (ADR/RID) 30

Tunnel restriction code (D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet WEL: Workplace Exposure Limit.
ATE: Acute Toxicity Estimate.
CAS: Chemical Abstracts Service.
DMEL: Derived Minimal Effect Level.
DNEL: Derived No Effect Level.
PNEC: Predicted No Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Revision date 14/08/2018

Revision 3

Supersedes date 15/02/2018

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SDS number	17400
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

The information in this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.