



1. Identification of substance / Preparation and Company

Chemical name of Preparation: Allweather Roofing System

Recommended use: Coating

Company Address: **EcoProof LTD**
The Enterprise Zone
Sheffield
S1 4DP

Telephone: 084433 56386

2. Hazards Identification

Indication of danger

Dangerous to environment
Flammable

Risk phrases

R10 Flammable
R51/53 Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
R64 May cause harm to breastfed babies
R66 Repeated exposure may cause skin dryness or cracking

Other hazards

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distance along the ground or floor to an ignition source and flash back.

3. Composition / Information on Ingredients

Ingredient	CAS Nbr	EU Inventory	% by weight	Classification
Non hazardous ingredients	Mixture		40 - 50	
2-methoxy-1-methylethyl acetate	108-65-6	EINECS 203-603-9	20 – 25	R10 (EU)
Naphtha (petroleum), hydride-sulphurised heavy	64742-82-1	EINECS 265-185-4	10 – 20	Xn; R65- Note 4, H,P (EU) N:R51/53; R10 (Vendor) R66; R67

Alkanes, C14-7, chloro	85535-85-9	EINECS 287-477-0	1 – 10	N: R50/53; R64: R66 (EU)
Talc	14807-96-6	EINECS 238-877-9	1 – 10	
Titanium dioxide	13463-67-7	EINECS 236-675-5	1 – 5	
Quaternary ammonium compounds, bis (hydrogenated tallow alkyl) dimethyl, salts with bentonite	68953-58-2	EINECS 273-219-4	1 – 5	
Quartz	14808-60-7	EINECS 238-878-4	<1	Xn: R48/20 (Vendor)
Octhilinone	26530-20-1	EINECS 247-761-7	<0.05	T: R23-24: C; R34; Xn: R22; N: R50/53; R43 (EU)

Please see section 16 for the full text of any risk phrases referred to under heading 2 and 3 of this safety data sheet

Please refer to section 15 for any applicable notes that have been applied to the above components

4. First Aid Measures

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

- Inhalation:** Remove person to fresh air. If signs / symptoms develop, get medical attention.
- Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.
- Eye Contact:** Flush eyes with large amounts of water. If signs / symptoms persist, get medical attention.
- Ingestion:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. Fire Fighting Measures

Suitable extinguishing media: Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide)

Unsuitable extinguishing media

Special exposure hazards: Combustible liquid and vapour. Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back

Special instructions for fire fighters Water may not effectively extinguish fire, however, it should be used to keep fire exposed containers and surfaces cool and

prevent explosive rupture. Water may be used to blanket fire. Wear full protective equipment and a self contained breathing apparatus.

6. Accidental Release Measures

Personal Precautions

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by a qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gasses or vapours in the spill area to burn or explode. Avoid contact with water. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

Environmental Procedures

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for Cleaning Up

Refer to other sections of this Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Contain spill. Cover spill area with a fire –extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container.

7. Handling & Storage

Handling

Keep out of the reach of children. For industrial or professional use only. Avoid inhalation of vapours, mists or spray. Avoid contact with skin. Avoid eye contact with vapours, mists or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material. Avoid contact with oxidising agents.

Storage

Store away from heat. Store out of direct sunlight. Store away from acids. Store away from oxidising agents. Store at temperatures between 5 - 32°C.

8. Exposure Controls / Personal Protection

Exposure Limit Values

Ingredient	Agency	Limit type	Additional Comments
2-methoxy-1-Methylethyl acetate	H & S Comm (UK)	TWA:274mg/m ³ (50ppm);STEL:548 Mg/m ³ (100ppm)	Skin notation
Talc	H & S Comm (UK)	TWA (as respirable Dust):1mg/m ³	
Titanium dioxide	H & S Comm (UK)	TWA (Inhalable):10 Mg/m ³ ; TWA (respirable) 4mg/m ³	

TWA – Time-Weighted-Average
STEL – Short Term Exposure Limited
PPM – Parts per million
Mg/m³ - milligrams per cubic metre
CEIL – Ceiling

Exposure Controls

Occupational Exposure Controls

Use general dilution ventilation / and or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and / or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Respiratory Protection

Avoid inhalation of vapours, mists or spray

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Half face piece or full face air purifying respirator with organic vapour cartridges and P2 particle pre-*filters.

Hand Protection

Gloves made from the following material (s) are recommended:

Butyl rubber
Neoprene

Eye / Face Protection

Avoid eye contact with vapours, mists or spray

The following eye protection(s) are recommended: Safety glasses with side shields
Indirect vented goggles

Skin Protection

Avoid skin contact

Select and use gloves and / or protective clothing to prevent skin contact base on the results of an exposure assessment. Consult with your glove and / or protective clothing manufacturer for selection of appropriate compatible materials.

Ingestion

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Environmental Exposure Controls

No data available

9. Physical and Chemical Properties

Physical state	Liquid
Specific Physical form	Thixotropic liquid
Appearance / odour	Aromatic hydrocarbon odour. Mid grey colour

Important health, safety and environmental information

pH	No data available
Boiling point / boiling range	$\geq 150^{\circ}\text{C}$
Melting point	Not applicable
Flammability (solid, gas)	Not available
Explosive properties	Not determined
Oxidising properties	Not determined
Flash Point	$>38^{\circ}\text{C}$ [Test method: Closed Cup]
Flammable limits – LEL	No data available
Flammable limits – UEL	No data available
Vapour pressure	414.6 Pa [@ 25°C]
Relative density	1.123 (ref Std: WATER=1)
Water solubility	Negligible
Partition coefficient: n-octanol / water	No data available
Evaporation rate	No data available
Vapour Density	No data available
Viscosity	No data available
Density	1.123g/ml

Other information

Volatile organic compounds (VOC)	384g/l (Test method: Estimated) (Details: EU Definition)
Percent volatile	34% weight

10. Stability and Reactivity

Stable: Hazardous polymerisation will not occur

Conditions to avoid	Temperatures above the boiling point.
----------------------------	---------------------------------------

Heat
Sparks and / or flames

Materials to avoid

Alcohols, Combustibles,
Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure build up
Strong acids
Strong oxidising agents

Hazardous decomposition products

Substance

Carbon monoxide
Carbon dioxide

Condition

During combustion
During combustion

11. Toxicological Information

Inhalation

Respiratory tract irritation: Signs / symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May be absorbed following inhalation and cause target organ effects.

Ingestion

Gastrointestinal irritation: Signs / symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.
May be absorbed following ingestion and cause target organ effects.

Eye Contact

Moderate eye irritation. Signs / symptoms may include redness, swelling, pain, tearing and blurred or hazy vision.

Skin Contact

Moderate skin irritation: Signs / symptoms may include localised redness, swelling, itching and dryness.

Other Health Effects

Central nervous system (CNS) depression: Signs / symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness and unconsciousness.

Reproductive / Developmental effects

Contains a chemical or chemicals which may interfere with lactation or be harmful to breastfed children.

12. Ecological Information

Ecotoxicity

No product test data available
No component test data available

Mobility

Please contact EcoProof Limited for more details

Persistence and degradability

No test data available

Bioaccumulative potential

No test data available

Results of PBT assessment

No data available at this time

Other adverse effects

No information available

13. Disposal Consideration

Waste disposal method:

Dispose of waste product in a permitted hazardous waste facility

Since regulations vary, consult applicable regulations or authorities before disposal.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of EcoProof Ltd, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC-2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and / or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances.

14. Transport Information

GR-2001-0490-3

ADR/RID UN1263, Paint related material, limited quantity, 3, III, (D/E)
Environmentally hazardous, ADR classification code: F1:

IMDG-Code UN1263, Paint related material, (Alkanes, C14-17, Chloro) 3, III, Limited
quantity EMS, FE. SE

ICAO/IATA UN1263, Paint related material, 3, III

15. Regulatory Information

Symbols

N Dangerous to environment

Contains

No ingredients are assigned to the label

Risk Phrases

R10 Flammable
R51/53 Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
R64 May cause harm to breastfed babies
R66 Repeated exposure may cause skin dryness or cracking

Safety Phrases

S23C Do not breathe vapour or spray
S51 Use only in well ventilated areas
S24 Avoid contact with skin
S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label
S61 Avoid release to the environment. Refer to special instructions / safety data sheets.

Special provisions concerning the labelling of certain substances.

Notes on labelling

R65 is not required on the label due to the products viscosity.
Note P applied to CAS# 64742-82-1

16. Legislation and Other Information

List of relevant R-Phrases

R10 Flammable
R20 Harmful by inhalation
R21 Harmful in contact with skin
R22 Harmful if swallowed
R23 Toxic by inhalation
R24 Toxic in contact with skin
R34 Causes burns
R36 Irritating to eyes
R38 Irritating to skin
R43 May cause sensitisation by skin contact
R45 May cause cancer
R46 May cause heritable genetic damage
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50/53 Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
R51/53 Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment
R52/53 Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment
R64 May cause harm to breastfed babies
R65 Harmful: May cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

Restrictions on use

For industrial or professional use only

Global inventory status.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Revision Information

No revision information is available