SAFETY DATA SHEET

ROOFPRO EMERGENCY ROOF & GUTTER SEALER

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830
AS AMENDED BY UK REACH REGULATIONS SI 2019/758

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Draft Version 2.0

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name	ROOFPRO EMERGENCY ROOF & GUTTER SEALER
Product Code	5060938853883
Nanoform	The product does not contain nanoparticles.

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

Identified use(s)	Coating and Sealer
Uses advised against	Anything other than the above.

1.3 Details of the supplier of the safety data sheet

Company Identification	Radmat (Ireland) Limited. 3 Inns Quay, Dublin 7, Ireland Click or tap here to enter text.
Telephone	+35 312 709880
E-mail (competent person)	sales@radmatbm.com

1.4 Emergency Telephone Number

Emergency Phone No.	+35 312 709880 (Office Hours)
NHS 24	111 (quote code from section 1.1 and also on reverse of tin)
Language(s) spoken:	English

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)	Flam. Liq. 3; H226 STOT SE 3; H336 STOT RE 1; H372 Aquatic Chronic 2; H411

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product name	ROOFPRO EMERGENCY ROOF & GUTTER SEALER
Contains:	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics

Hazard Pictogram(s)

Signal Word(s)	DANGER
Hazard Statement(s)	H226: Flammable liquid and vapour. H336: May cause drowsiness or dizziness. H372: Causes damage to organs through prolonged or repeated exposure.

	H411: Toxic to aquatic life with long lasting effects.
Precautionary Statement(s)	P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P243: Take action to prevent static discharges. P260: Do not breathe vapour. P273: Avoid release to the environment. P391: Collect spillage. P501: Dispose of contents/container in accordance with local/regional/national/international regulations.
Supplemental information	EUH066: Repeated exposure may cause skin dryness or cracking. .

2.3 Other hazards None Known

3. SECTION 3: COMPOSITION/INFORMATION ON INGEDIENTS

3.1 Substances
not applicable

3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
2-methoxy-1-methylethyl acetate	>10 - < 30	108-65-6	203-603-9	01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	>20 - < 30	64742-82-1	919-446-0	01-2119458049-33-0000	Flam. Liq. 3; H226 STOT SE 3; H336 STOT RE 1; H372 Asp. Tox. 1; H304 Aquatic Chronic 2; H411

Note: For full text of H phrases see section 16.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Self-protection of the first aider	Use personal protective equipment as required. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe vapour. Avoid all contact. Contaminated clothing should be laundered before reuse.
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.
Skin contact	IF ON SKIN: Remove contaminated clothing and wash all affected areas with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

	Ingestion	IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Make victim drink plenty of water. Do not give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.
4.2	**Most important symptoms and effects, both acute and delayed**	May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure.
4.3	**Indication of any immediate medical attention and special treatment needed**	Treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

5.1	**Extinguishing media**	
	Suitable extinguishing media	As appropriate for surrounding fire. Extinguish with carbon dioxide, dry chemical, foam or waterspray and sand.
	Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.
5.2	**Special hazards arising from the substance or mixture**	Flammable liquid and vapour. May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide, organic and inorganic compounds.
5.3	**Advice for firefighters**	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers. Dike fire control water for later disposal.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Ensure adequate ventilation. Stop leak if safe to do so. Eliminate all ignition sources if safe to do so. Use non-sparking tools. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required. Do not breathe vapour. See Section: 8
6.2	**Environmental precautions**	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body. Dike area to contain the spill and prevent releases to sewers, drains, or other waterways.
6.3	**Methods and material for containment and cleaning up**	Eliminate sources of ignition. Use non-sparking equipment when picking up flammable spill. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Ventilate the area and wash spill site after material pick-up is complete. Dispose of this material and its container as hazardous waste
6.4	**Reference to other sections**	See Section: 8, 13

7. SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	Ensure operatives are trained to minimise exposures. Do not handle until all safety precautions have been read and understood. Avoid all contact. Do not breathe vapour. Ensure adequate ventilation. Take precautionary measures against static discharges. Use personal protective equipment as required. See Section: 8. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Ground and bond container and receiving equipment.
7.2	**Conditions for safe storage, including any incompatibilities**	Keep only in original container. Store in a well-ventilated place. Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight.
	Storage temperature	Ambient temperatures.
	Incompatible materials	Strong acids, strong bases.
7.3	**Specific end use(s)**	See Section: 1.2.

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
8.1.1 Occupational exposure limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
2-methoxy-1-methylethylacetate	108-65-6	50	275	100	550	Sk, IOELV
White Spirits	64742-82-1	116	20	290	50	-

Source:
2021 Code of Practice for Safety, Health and Welfare at Work (Chemical Agents) Regulation (2001 – 2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001 – 2019); Health and Safety Authority
The Scientific Committee on Occupational Exposure Limits (SCOEL) recommended OEL (2007b)

Notes:
Sk: The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.
IOELV- Indicative Occupational Exposure Limit Values

8.1.2 Biological limit value — Not established

8.1.3 PNECs and DNELs — Not established

8.2 Exposure controls

8.2.1 Appropriate engineering controls — Ensure adequate ventilation. Atmospheric levels should be controlled in compliance with the occupational exposure limit. A washing facility/water for eye and skin cleaning purposes should be present. Ground and bond container and receiving equipment. Use non-sparking tools.

8.2.2 Individual protection measures, such as personal protective equipment — General hygiene measures for the handling of chemicals are applicable. Keep good industrial hygiene. Avoid all contact. Do not breathe vapour. Wash hands before breaks and after work. Keep work clothes separately. Do not eat, drink or smoke at the work place.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye/ face protection

Wear protective eye glasses for protection against liquid splashes. Wear eye protection with side protection (EN166).

Skin protection

Hand protection:
Wear impervious gloves (EN374). Protective index 6, corresponding > 480 minutes of permeation time according to EN 374 Gloves should be changed regularly to avoid permeation problems. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.

Body protection:
Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. A suitable mask with filter type A (EN141 or EN405) may be appropriate.

	Thermal hazards	Not applicable
8.2.3	**Environmental exposure controls**	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour	BLACK
Odour	Characteristic
Melting point/freezing point	Not established
Boiling point or initial boiling point and boiling range	Not established
Flammability	Flammable liquid
Lower and upper explosion limit	Not established
Flash point	➢ 38°C
Auto-ignition temperature	Not established
Decomposition temperature	Not established
pH	Not applicable
Kinematic viscosity	Not established
Solubility	Partially soluble
Partition coefficient: n-octanol/water (log value)	Not established
Vapour pressure	Not established
Density and/or relative density	Not established
Relative vapour density	Not established
Particle characteristics	not applicable

9.2 Other information

Specific Gravity	1
Viscosity	40,000 – 45,000 cps

10. SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable under normal conditions.
10.2	**Chemical stability**	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**	Stable under normal conditions.
10.4	**Conditions to avoid**	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from direct sunlight. Extreme temperatures.
10.5	**Incompatible materials**	Strong acids, strong bases.
10.6	**Hazardous decomposition products**	May decompose in a fire giving off toxic fumes. Carbon monoxide, Carbon dioxide, organic and inorganic compounds.

11. SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity - Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2,000 mg/kg bw/day.
Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2,000 mg/kg bw/day.
Acute toxicity - Skin contact	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 > 20mg/l (Vapour).
Skin corrosion/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Serious eye damage/irritation	Mixture: Based upon the available data, the classification criteria are not met.
Respiratory or skin sensitisation	Mixture: Based upon the available data, the classification criteria are not met.
Germ cell mutagenicity	Mixture: Based upon the available data, the classification criteria are not met.

	Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - Single Exposure	Mixture: STOT SE 3: H336: May cause drowsiness or dizziness.
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	STOT SE 3: H336: May cause drowsiness or dizziness. EU classification and labelling inventory (19 Notifiers)
	2-methoxy-1-methylethyl acetate	STOT SE 3; H336: May cause drowsiness or dizziness. ECHA registration dossier.
	STOT - Repeated Exposure	Mixture: STOT RE 1: Causes damage to organs through prolonged or repeated exposure.
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	STOT RE 1: H372: Causes damage to organs through prolonged or repeated exposure:central nervous system EU classification and labelling inventory
	Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Asp. Tox. 1: May be fatal if swallowed and enters airways. ≤1 mm^2/sec @ 40 °C (Low boiling point Naphthas) (CONCAWE, 2010)
11.2	**Information on other hazards**	
11.2.1	Endocrine disrupting properties	None Known

12. SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**	Mixture: Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects.
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Aquatic Chronic 2; H411: Toxic to aquatic life with long lasting effects. EU classification and labelling inventory (19 Notifiers)
12.2	**Persistence and degradability**	No data for the mixture as a whole.
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	No data available
	2-methoxy-1-methylethyl acetate	Readily biodegradable. 83% Degradation in water (10 days) (OECD GL 301F) ECHA registration dossier.
12.3	**Bioaccumulative potential**	No data for the mixture as a whole.
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	No data available
	2-methoxy-1-methylethyl acetate	No data available. logKow= 1.2, therefore, bioaccumulation testing can be waived in accordance to REACH Annex VIII, column 2.
12.4	**Mobility in soil**	No data for the mixture as a whole.
	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	No data available
	2-methoxy-1-methylethyl acetate	No data available. Not applicable in accordance to REACH Annex VIII, column 2.
12.5	**Results of PBT and vPvB assessment**	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
12.6	**Endocrine disrupting properties**	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	**Other adverse effects**	None known

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Do not allow to enter drains, sewers or watercourses. Dispose of wastes in an approved waste disposal facility. Dispose of contents in accordance with local, state or national legislation.
	Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	EU Waste Codes: HP3 (Flammable), HP5 (Specific Target Organ Toxicity) , HP14 (Ecotoxic)

14. SECTION 14: TRANSPORT INFORMATION

		ADR/RID	ADN	IMDG	IATA/ICAO
14.1	**UN number or ID number**	1993	1993	1993	1993
14.2	**UN proper shipping name**	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))
14.3	**Transport hazard class(es)**	3	3	3	3
14.4	**Packing group**	III	III	III	III
14.5	**Environmental hazards**	Environmentally hazardous substance	Environmentally hazardous substance	Environmentally hazardous substance	Environmentally hazardous substance
14.6	**Special precautions for user**	See Section: 2			
14.7	**Maritime transport in bulk according to IMO instruments**	Not applicable			
14.8	**Additional information**	None			

15. SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or restrictions on use: Not restricted for the intended use(s) of the product.

Use restriction according to REACH annex XVII, no.: This product does not contain any known "substances of very high concern" (SVHC's)

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: P5c flammable liquids
E2 Hazardous to the Aquatic Environment in Category Chronic 2

Directive 2010/75/EU on industrial emissions

Solvent VOC-value:

VOC-value %W/W	Temperature	Method
>50 - <100	20 °C	calculated

To follow: Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

15.1.2 National regulations

S.I. No. 619/2001: Not listed

15.2 Chemical Safety Assessment: A REACH chemical safety assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: not applicable – V1.0

References:
Existing ECHA registration(s) for Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (EC NO: 919-446-0); 2-methoxy-1-methylethyl acetate (CAS NO: 108-65-6)
Harmonised Classification(s) for 2-methoxy-1-methylethyl acetate (CAS NO: 108-65-6)

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification procedure
Flam. Liq. 3; H226	Expert judgement and weight of evidence.
STOT SE 3; H336	Threshold Calculation
STOT RE 1; H372	Threshold Calculation
Aquatic Chronic 2; H411	Threshold Calculation

Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:
Flam. Liq. 3; Flammable liquid, Category 3
Asp. Tox. 1; Aspiration hazard, Category 1
STOT SE 3; Specific Target Organ Toxicity — Single Exposure, Category 3
STOT RE 1; Specific target organ toxicity — repeated exposure, Category 1
Aquatic Chronic 2; Hazardous to the aquatic environment, Chronic , Category 2

Hazard Statement(s)
H226: Flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H336: May cause drowsiness or dizziness.

H372: Causes damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.

EUH066: Repeated exposure may cause skin dryness or cracking.
EUH211 : Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Disclaimers
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Annex to the extended Safety Data Sheet (eSDS)
Exposure scenarios for substances in this preparation are not available.