

SAFETY DATA SHEET



**ROOF
FLEX**

Roof Flex Flexypol Grey

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

Date of issue: 3rd May 2022
Date of First Issue: 3rd May 2022
Version 1.0

EUROPEAN VERSION (FOR USE IN IRELAND & NORTHERN IRELAND) FOLLOWS THE UK ONE

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

- 1.1 Product Identifier**
Product Name Roof Flex Flexypol Grey
Product Code 5060497700192 / 5060497700208 / 5060497700215 / 5060497700222
Unique Formula Identifier (UFI) JU04-78UT-700T-5TFS
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 Building Products Ltd.
Holland House, Valley Way, Rockingham Road, Market Harborough,
Leicestershire, LE16 7PS

Telephone +44 1858 412109
E-mail (competent person) Support@Rooftrade.co.uk
- 1.4 Emergency Telephone Number**
Emergency Phone No. + 44 (0) 1858 412109 Office hours: 9am – 5pm
NHS 24 111 Members of Public
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**
Product name Roof Pro Flexypol One Coat Grey
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.

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Precautionary Statement(s)	H411: Toxic to aquatic life with long lasting effects. 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. EUH211 : Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
2.3 Other hazards	None Known

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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 - <20	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 - < 50	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

Inhalation

Skin contact

Eye contact

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.

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.

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.

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.

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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.

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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/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
2-methoxy-1-methylethylacetate	108-65-6	50	275	100	550	Sk, IOELV
White Spirits	64742-82-1	116	20	290	50	-
Titanium Dioxide	13463-67-7	-	10	-	-	Inhalable Dust
		-	4	-	-	Respirable Dust

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.

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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	Grey
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.

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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.
2-methoxy-1-methylethyl acetate	EU classification and labelling inventory (19 Notifiers) 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)

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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	Not restricted for the intended use(s) of the product.						
Authorisations and/or restrictions on use	This product does not contain any known "substances of very high concern" (SVHC's)						
Use restriction according to REACH annex XVII, no.:	P5c flammable liquids E2 Hazardous to the Aquatic Environment in Category Chronic 2						
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III- Directive]	Solvent VOC-value:						
Directive 2010/75/EU on industrial emissions							
To follow:	<table border="1"><thead><tr><th>VOC-value %W/W</th><th>Temperature</th><th>Method</th></tr></thead><tbody><tr><td>>50 - <100</td><td>20 °C</td><td>calculated</td></tr></tbody></table>	VOC-value %W/W	Temperature	Method	>50 - <100	20 °C	calculated
VOC-value %W/W	Temperature	Method					
>50 - <100	20 °C	calculated					
15.1.2 National regulations	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						
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.

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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

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Radmat Building Products Ltd gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Radmat Building Products Ltd accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information.
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Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.



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

1.1 Product Identifier	Product Name	Roof Pro Flexpol One Coat Grey
	Product Code	5060382235273, 5060382235297 & 5060382235310
	Unique Formula Identifier (UFI)	JU04-78UT-700T-5TFS
	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) Ltd. 3 Inns Quay, Dublin 7 Ireland
	Telephone	+44 1858 412109
	E-mail (competent person)	Support@Rooftrade.co.uk
1.4 Emergency Telephone Number	Emergency Phone No.	+44 1858 412109
	National Poisons Information Centre (Ireland)	+353 (1) 809 2166
	National Poisons Information Service (Northern Ireland)	+353 (1) 809 2566
	NHS 24	+44 (0) 3448 920111
	Language(s) spoken:	111 English
		Office hours (Monday to Friday 08:00 - 16:30) 8.00am. - 10.00pm 7 days per week Members of Public 24 hr. emergency phone number Healthcare Professionals ONLY 24 hr. emergency phone number Healthcare Professionals ONLY Members of Public

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	One Coat Grey
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.

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Supplemental information	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.
2.3 Other hazards	None Known

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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)
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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

Inhalation

Skin contact

Eye contact

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.

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.

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.

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.

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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.

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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/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
2-methoxy-1-methylethylacetate	108-65-6	50	275	100	550	Sk, IOELV
White Spirits	64742-82-1	116	20	290	50	-
Titanium Dioxide	13463-67-7	-	10	-	-	Inhalable Dust
		-	4	-	-	Respirable Dust

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.

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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	Grey
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.

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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.
2-methoxy-1-methylethyl acetate	EU classification and labelling inventory (19 Notifiers) 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)

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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	Not restricted for the intended use(s) of the product.						
Authorisations and/or restrictions on use	This product does not contain any known "substances of very high concern" (SVHC's)						
Use restriction according to REACH annex XVII, no.:	P5c flammable liquids E2 Hazardous to the Aquatic Environment in Category Chronic 2						
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]							
Directive 2010/75/EU on industrial emissions	Solvent VOC-value:						
To follow:	<table border="1"><thead><tr><th>VOC-value %W/W</th><th>Temperature</th><th>Method</th></tr></thead><tbody><tr><td>>50 - <100</td><td>20 °C</td><td>calculated</td></tr></tbody></table>	VOC-value %W/W	Temperature	Method	>50 - <100	20 °C	calculated
VOC-value %W/W	Temperature	Method					
>50 - <100	20 °C	calculated					
15.1.2 National regulations	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						
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.

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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.