

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY

1.1 Product Identifier

Product Name: Colormet Anti Corrosion Primer

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

Material uses: Identified uses: consumer use, industrial use, professional use
Uses advised against: None identified

1.3 Details of the supplier of the safety data sheet

Company Name: Polycote UK LLP
Centre Point
Wolseley Road
Woburn Road Industrial Estate
Kempston
Beds
MK42 7EF

Telephone Number: 01234 846400

Emergency Contact Number: 111 (NHS England)

Email address: uksales@polycote.com

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226

STOT SE 3, H336

Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word:

Warning

Hazard pictograms:



Hazard statements:

H226 - Flammable liquid and vapour.
H336 - May cause drowsiness or dizziness.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

General: P103 - Read carefully and follow all instructions.
P102 - Keep out of reach of children.
P101 - If medical advice is needed, have product container or label at hand.

Prevention: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.

Response: P391 - Collect spillage.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Storage: P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazardous ingredients:

hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics
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.

Supplemental label elements:

Supplemental label elements:

Detergents - Regulation (EC) No 907/2006
Annex XVII - Restrictions on the
manufacture, placing on the market and
use of certain dangerous substances,
mixtures and articles

Not applicable.

Special packaging requirements:

Containers to be fitted with child-resistant

fastenings

Tactile warning of danger: Not applicable.

2.3 Other hazards:

Product meets the criteria for PBT or vPvB
according to Regulation (EC) No. 1907/2006,
Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 2: HAZARDS IDENTIFICATION (continue)

Other hazards which do not result in classification: None known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**3.2 Mixtures**

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119471843-32 Index: 649-327-00-6	≥10 - <20	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 EUH066	-	[1] [2]
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	REACH #: 01-2119463258-33 EC: 919-857-5	≤10	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066	-	[1] [2]
hydrocarbons, isoalkanes, C7-C9	REACH #: 01-2119471305-42 CAS: 64741-66-8	≤10	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
1-methoxy-2-propanol	REACH #: 01-2119457435-35 EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤3	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

List numbers have no legal significance.

This mixture contains ≥ 1% of titanium dioxide. The Annex VI classification of titanium dioxide does not apply to this mixture according to Note 10.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST-AID MEASURES**4.1 Description of first aid measures:****Eye contact:**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison centre or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact:

Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: FIRST-AID MEASURES (continue)

Ingestion:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison centre or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
4.2 Most important symptoms and effects, both acute and delayed	
<u>Over-exposure signs/symptoms</u>	
Eye contact:	No specific data.
Inhalation:	Adverse symptoms may include the following: <ul style="list-style-type: none"> • nausea or vomiting • headache • drowsiness/fatigue • dizziness/vertigo • unconsciousness
Skin contact:	Adverse symptoms may include the following: <ul style="list-style-type: none"> • irritation • dryness • cracking
Ingestion:	No specific data.
4.3 Indication of any immediate medical attention and special treatment needed:	
Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments:	No specific treatment.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:	
Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media:	Do not use water jet.
5.2 Special hazards arising from the substance or mixture:	
Hazards from the substance or mixture:	Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products:	Decomposition products may include the following materials: <ul style="list-style-type: none"> • carbon dioxide • carbon monoxide • phosphorus oxides • metal oxide/oxides
5.3 Advice for firefighters:	
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Additional information:	No unusual hazard if involved in a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:	
For non-emergency personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6: ACCIDENTAL RELEASE MEASURES (continue)

6.2 Environmental precautions:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for containment and cleaning up:	
Small spill:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling:

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any Incompatibilities:

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds**Danger criteria**

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E2	200 tonne	500 tonne

7.3 Specific end use(s)

Recommendations: Not available.

Industrial sector specific solutions: Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters:****Occupational exposure limits**

Product/ingredient name	Exposure limit values
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 850 mg/m ³ , (as turpentine ****TO BE TRANSLATED****) 15 minutes. Form: Vapour TWA: 566 mg/m ³ , (as turpentine (100 ppm)) 8 hours. Form: Vapour
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	EH40/2005 WELs (United Kingdom (UK), 8/2007). STEL: 850 mg/m ³ , (as turpentine (150 ppm)) 15 minutes. Form: Vapour TWA: 566 mg/m ³ , (as turpentine (100 ppm)) 8 hours. Form: Vapour

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Product/ingredient name	Exposure limit values
1-methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 560 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 375 mg/m ³ 8 hours. TWA: 100 ppm 8 hours.

Recommended monitoring procedures:

Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1500 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	300 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	900 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	300 mg/kg bw/day	General population [Consumers]	Systemic
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	DNEL	Long term Dermal	208 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	871 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	125 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	185 mg/m ³	General population [Consumers]	Systemic
hydrocarbons, isoalkanes, C7-C9	DNEL	Long term Dermal	773 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2035 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	699 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	608 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Oral	699 mg/kg bw/day	General population [Consumers]	Systemic
trizinc bis(orthophosphate)	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2,5 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population [Consumers]	Systemic
1-methoxy-2-propanol	DNEL	Long term Oral	0,83 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Short term Inhalation	553,5 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	369 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	50,6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43,9 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	18,1 mg/kg bw/day	General population [Consumers]	Systemic
zinc oxide	DNEL	Long term Oral	3,3 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2,5 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population [Consumers]	Systemic
DNEL	Long term Oral	0,83 mg/kg bw/day	General Population [Consumers]	Systemic	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**PNECs**

Product/ingredient name	Compartment Detail	Value	Method Detail
trizinc bis(orthophosphate)	Fresh water	48,1 µg/l	-
	Marine	14,2 µg/l	-
	Fresh water sediment	550,2 mg/kg	-
	Marine water sediment	263,9 mg/kg	-
	Soil	249,4 mg/kg	-
	Sewage Treatment Plant	121,4 µg/l	-
1-methoxy-2-propanol	Fresh water	10 mg/l	-
	Fresh water sediment	41,6 mg/l	-
	Marine water sediment	4,17 mg/l	-
	Soil	2,47 mg/l	-
	Sewage Treatment Plant	100 mg/l	-
zinc oxide	Fresh water	25,6 µg/l	-
	Marine	7,6 µg/l	-
	Sewage Treatment Plant	64,7 µg/l	-
	Fresh water sediment	146 mg/kg dwt	-
	Marine water sediment	70,3 mg/kg dwt	-
	Soil	44,3 mg/kg dwt	-

8.2 Exposure controls**Appropriate engineering controls:**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures:**Hygiene measures:**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection:

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection:

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Hand protection:

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. > 8 hours (breakthrough time): nitrile rubber (0.5mm)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. Recommended: Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

Other skin protection:

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection:

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapour filter (Type A) (EN 140)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Physical state: Liquid
 Colour: Various
 Odour: Hydrocarbon. [Slight]
 Odour threshold: Not available.
 Melting point/freezing point: -20°C [Literature]
 Initial boiling point and boiling range: >160°C (>320°F) [Literature]
 Flammability (solid, gas): Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
 Vapour may travel a considerable distance to source of ignition and flash back.
 Lower and upper explosion limit: Lower: 0.6%
 Upper: 8%
 Flash point: Closed cup: 40°C (104°F) [Literature]
 Auto-ignition temperature: 250°C (482°F) [Literature]
 Decomposition temperature: Not available.
 pH: Not applicable.
 pH: Justification: Product is non-soluble (in water).
 Viscosity: Dynamic (room temperature): 950 to 1150 mPa·s [ASTM D562 [KU]]
 Kinematic (room temperature): 759 to 975 mm²/s [calculated.]
 Kinematic (40°C): >20,5 mm²/s [calculated.]

Solubility(ies):

Media	Result
cold water	Not soluble
hot water	Not soluble
acetone	Partially soluble

Solubility in water: Not available.
 Partition coefficient: n-octanol/water: Not applicable.
 Vapour pressure: 0,7 kPa (5,25 mm Hg) [calculated.]
 Evaporation rate: 0,2 (butyl acetate = 1)
 Relative density: Not available.
 Density: 1,18 to 1,251 g/cm³ [20°C (68°F)] [DIN 53217]
 Vapour density: >1 [Air = 1]
 Explosive properties: Non-explosive in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and shocks and mechanical impacts.
 No unusual hazard if involved in a fire.
 Oxidising properties: Not available.
Particle characteristics
 Median particle size: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability: The product is stable.
10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
10.5 Incompatible materials: Reactive or incompatible with the following materials:
 • oxidising materials
10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	LC50 Inhalation Vapour	Rat	8500 mg/m ³	4 hours
	LC50 Inhalation Vapour	Rat	>5000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
	LD50 Oral	Rat	>15000 mg/kg	-

SECTION 11: TOXICOLOGICAL INFORMATION (continue)

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, isoalkanes, C7-C9	LC50 Inhalation Vapour	Rat	>21 mg/l	4 hours
	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
trizinc bis(orthophosphate)	LC50 Inhalation Dusts and mists	Rat	>5,7 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
1-methoxy-2-propanol	LC50 Inhalation Vapour	Rat	30,02 mg/l	4 hours
	LD50 Dermal	Rabbit	13 g/kg	-
	LD50 Oral	Mouse	11700 mg/kg	-
	LD50 Oral	Rat - Male, Female	4016 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and mists	Mouse	2500 mg/m ³	4 hours
	LC50 Inhalation Dusts and mists	Rat	>5700 mg/m ³	4 hours
	LD50 Oral	Rat	>15 g/kg	-

Conclusion/Summary: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	10000	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Eyes - Cornea opacity	Rabbit	0	-	-
	Skin - Oedema	Rabbit	1	-	-
hydrocarbons, isoalkanes, C7-C9	Eyes - Redness of the conjunctivae	Rabbit	1	-	-
	Skin - Erythema/Eschar	Rabbit	1	-	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary

Skin: Based on available data, the classification criteria are not met.

Eyes: Based on available data, the classification criteria are not met.

Respiratory: May cause drowsiness or dizziness.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Skin	Rabbit	Not sensitizing
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Skin	Rabbit	Not sensitizing
hydrocarbons, isoalkanes, C7-C9	Respiratory	Rat	Not sensitizing

Conclusion/Summary

Skin: Based on available data, the classification criteria are not met.

Respiratory: Based on available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	OECD 473, 474, 476	Subject: Mammalian-Animal	Negative
hydrocarbons, isoalkanes, C7-C9	OECD 471	Subject: Bacteria	Negative

Conclusion/Summary

Based on available data, the classification criteria are not met.

Carcinogenicity

has been observed that the carcinogenic hazard of this product arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung.

Product/ingredient name	Result	Species	Dose	Exposure
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Negative - Oral - TD	Rat	-	-

Conclusion/Summary

Based on available data, the classification criteria are not met.

Reproductive toxicity**Conclusion/Summary**

Based on available data, the classification criteria are not met.

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	-	-	Negative	Rat - Female	Oral	-
hydrocarbons, isoalkanes, C7-C9	Negative	Negative	Negative	Rat	Oral	-

Conclusion/Summary

Based on available data, the classification criteria are not met.

SECTION 11: TOXICOLOGICAL INFORMATION (continue)**Teratogenicity****Conclusion/Summary**

Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Category 3	-	Narcotic effects
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Category 3	-	Narcotic effects
hydrocarbons, isoalkanes, C7-C9	Category 3	-	Narcotic effects
1-methoxy-2-propanol	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Product/ingredient name	Result
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	ASPIRATION HAZARD - Category 1
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	ASPIRATION HAZARD - Category 1
hydrocarbons, isoalkanes, C7-C9	ASPIRATION HAZARD - Category 1

Information on likely routes of exposure: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.**Potential acute health effects**

Eye contact: No known significant effects or critical hazards.
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact: Defatting to the skin. May cause skin dryness and irritation.
Ingestion: Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No specific data.
Inhalation: Adverse symptoms may include the following:

- nausea or vomiting
- headache
- drowsiness/fatigue
- dizziness/vertigo
- unconsciousness

Skin contact: Adverse symptoms may include the following:

- irritation
- dryness
- cracking

Ingestion: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Short term exposure**

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Potential chronic health effects

Not available.

Conclusion/Summary:

Based on available data, the classification criteria are not met.

General:

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity:

No known significant effects or critical hazards.

Mutagenicity:

No known significant effects or critical hazards.

Reproductive toxicity:

No known significant effects or critical hazards.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties** Not available.**11.2.2 Other information** Not available.**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Acute toxicity:**

Product/ingredient name	Result	Species	Exposure
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Acute EC50 >1000 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 22 to 46 mg/l	Daphnia spec.	48 hours
	Acute LC50 10 to 30 mg/l	Fish	96 hours
	Acute NOEC <1 mg/l	Algae – Pseudokirchneriella subcapitata	72 hours
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Acute NOEC 100 mg/l	Algae – Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0,23 mg/l	Daphnia spec.	-
	Chronic NOEC 0,131 mg/l	Fish	-

SECTION 12: ECOLOGICAL INFORMATION (continue)**12.1 Toxicity****Acute toxicity:**

Product/ingredient name	Result	Species	Exposure
hydrocarbons, isoalkanes, C7-C9	Acute EC50 29 mg/l	Algae - pseudokirchneriella subcapitata	72 hours
	Acute EC50 2,4 mg/l	Daphnia spec.	48 hours
	Acute LC50 18,4 mg/l	Fish	96 hours
	Acute NOEC 6,3 mg/l	Algae - pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0,17 mg/l	Daphnia spec.	21 days
trizinc bis(orthophosphate)	Acute EC50 5,7 mg/l Acute IC50 1,87 mg/l	Daphnia spec. - ceriodaphnia dubia Algae – selenastrum capricornutum	48 hours 72 hours
1-methoxy-2-propanol	Acute EC50 >1000 mg/l Acute EC50 23300 mg/l Acute LC50 6812 mg/l Fresh water	Algae – Selenastrum capricornutum Daphnia spec. Fish	7 days 96 hours 96 hours
zinc oxide	Acute EC50 0,024 mg/l	Algae	72 hours
	Acute EC50 0,137 mg/l	Algae	72 hours
	Acute EC50 0,413 mg/l	Daphnia spec.	48 hours
	Acute EC50 0,481 mg/l Fresh water	Daphnia spec. - Daphnia magna - Neonate	48 hours
	Acute IC50 46 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata – Exponential growth phase	72 hours
	Acute LC50 98 µg/l Fresh water	Daphnia spec. - Daphnia magna - Neonate	48 hours
	Acute LC50 0,33 to 0,78 mg/l	Fish	96 hours
	Chronic NOEC 0,019 mg/l	Algae	7 days
	Chronic NOEC 0,037 mg/l	Daphnia spec.	21 days
	Chronic NOEC 0,082 mg/l	Daphnia spec.	7 days
	Chronic NOEC 0,199 mg/l	Fish	30 days

Conclusion/Summary: Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	-	89 % - Readily - 28 days	-	-
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	OECD 301B	>80 % - Readily - 28 days	-	-
	OECD 301F	>80 % - Readily - 28 days	-	-
hydrocarbons, isoalkanes, C7-C9	-	22 % - 28 days	-	-
1-methoxy-2-propanol	OECD 301E	96 % - Readily - 28 days	-	-
	OECD 301C	88 to 92 % - Readily - 28 days	-	-
	-	>90 % - Readily - 5 days	1,95 gO ₂ /g ThOD	-

Conclusion/Summary: This product has not been tested for biodegradation. Based on available data, the classification criteria are not met.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	Fresh water <28 days, 5 to 25°C	-	Readily
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	-	100%; < 28 day(s)	Readily
hydrocarbons, isoalkanes, C7-C9	-	-	Inherent
1-methoxy-2-propanol	Fresh water <28 days, 5 to 25°C	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
hydrocarbons, C9-C10, n-/ iso-/ cyclo-alkanes, < 2% aromatics	>4	-	High
hydrocarbons, C9-C11, n-/ iso-/ cyclo-alkanes, < 2% aromatics	5 to 6.5	-	High
hydrocarbons, isoalkanes, C7-C9	4.3 to 5.1	10 to 2500	High
trizinc bis(orthophosphate)	-	60960	High
1-methoxy-2-propanol	<1	<100	Low
zinc oxide	-	177	Low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}): Not available.

Mobility: Volatile.

12.5 Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties: Not available.

12.7 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

SECTION 13: DISPOSAL CONSIDERATIONS (continue)

Product	
Methods of disposal:	The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste:	Yes.
Waste catalogue	
Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Special precautions:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	ADR / RID	ADN	IMDG	IATA
14.1. UN number	UN1263	UN1263	UN1263	UN1263
14.2. UN proper shipping name	PAINT	PAINT	PAINT Marine pollutant	PAINT
14.3. Transport hazard class(es)	3 	3 	3 	3
14.4. Packing group	III	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes	Yes. The environmentally hazardous substance mark is not required.
Additional information	Limited quantity 5L Special provisions 163, 367, 650 Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2. Tunnel code (D/E)	Special provisions 163, 650, 367 Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.2.3.1.5.2. Remarks : < 5L: Limited Quantity	Emergency schedules F-E, S-E Special provisions 163, 223, 367, 955 Viscous liquid exception This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8 according to 2.3.2.5. Remarks : < 5L: Limited Quantity - IMDG 3.4	The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10L. Packaging instructions: Y344. Special provisions A3, A72, A192
14.6 Special precautions for user:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.			
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not available.			

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	
No listed substance	
Labelling:	Not applicable.
Other EU regulations	
VOC:	
VOC for Ready-for-Use Mixture:	IIA/i. One-pack performance coatings. EU limit value for this product : 500g/l (2010). This product contains a maximum of 497 g/l VOC.
Industrial emissions (integrated pollution prevention and control) - Air	Not listed
Industrial emissions (integrated pollution prevention and control) - Water	Not listed

SECTION 15: REGULATORY INFORMATION (continue)

Explosive precursors:	Not applicable.
United Kingdom: Great Britain	
UK (GB)/REACH	
Annex XIV - List of substances subject to authorisation	
Annex XIV	None of the components are listed.
Substances of very high concern	None of the components are listed.
Ozone depleting substances	Not listed
Prior Informed Consent (PIC)	Not listed
Persistent Organic Pollutants	Not listed
Aerosol dispensers	
Seveso Directive	This product is controlled under the Seveso Directive.

Danger criteria

Category
P5c
E2

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

International regulations**Stockholm Convention on Persistent Organic Pollutants**

List name	Ingredient name	Status
Not listed.		

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

List name	Ingredient name	Status
Not listed.		

CN code: 3208 90 91 00

Inventory list

Australia:	At least one component is not listed.
Canada:	At least one component is not listed.
China:	At least one component is not listed.
Eurasian Economic Union:	Russian Federation inventory: Not determined.
Japan:	Japan inventory (CSCL): At least one component is not listed. Japan inventory (ISHL): Not determined.
New Zealand:	At least one component is not listed.
Philippines:	Not determined.
Republic of Korea:	At least one component is not listed.
Taiwan:	At least one component is not listed.
Thailand:	Not determined.
Turkey:	Not determined.
United States:	Not determined.
Viet Nam:	Not determined.

15.2 Chemical safety assessment: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION**Abbreviations and acronyms:**

ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 N/A = Not available
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 SGG = Segregation Group
 vPvB = Very Persistent and Very Bioaccumulative
Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Flam. Liq. 3, H226	Expert judgment
STOT SE 3, H336	Expert judgment
Aquatic Chronic 2, H411	Expert judgment

SECTION 16: OTHER INFORMATION (continue)**Full text of abbreviated H statements****United Kingdom: Great Britain**

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
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.
H412 Harmful to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications**[CLP/GHS]**

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1 ASPIRATION HAZARD - Category 1
Flam. Liq. 2 FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

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