### **Hempalin Primer 12050**



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758 - United Kingdom (UK)

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

1.1 Product identifier

Product name : Hempalin Primer 12050
Product identity : 1205012170, 00137BBE

Product type: alkyd primer

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

Field of application: buildings and metal industry. ships and shipyards

Identified uses: Industrial applications, Professional applications, Used by spraying.

1.3 Details of the supplier of the safety data sheet

Company details: Hempel UK Ltd

Berwyn House, The Pavilions

Llantarnam Park Cwmbran

South Wales NP44 3FD Telephone: 01633 833600 hempel@hempel.com

Date of issue : 17 January 2024

Date of previous issue : 30 December 2022.

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to UK CLP/GHS

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS
Skin Sens. 1, H317 SKIN SENSITISATION

Carc. 1B, H350 CARCINOGENICITY

STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)

STOT RE 1, H372 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

Aquatic Chronic 2, H411 LONG-TERM (CHRONIC) AQUATIC HAZARD See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms:









1.4 Emergency telephone number

UK: 01633 833600 (08.00 - 17.00)

Monday-Sunday; 08:00-22:00)

Emergency telephone number (with hours of operation)

Ireland: 01 809 2166 (National Poisons Information Centre,

See Section 4 of the safety data sheet (first aid measures).

Signal word : Danger

Hazard statements : F226 - Flammable liquid and vapour.

H317 - May cause an allergic skin reaction. H336 - May cause drowsiness or dizziness.

H350 - May cause cancer.

H372 - Causes damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention: Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face

protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor, mist or spray.

Response: Collect spillage. IF exposed or concerned: Get medical advice or attention.

Store in a well-ventilated place. Keep container tightly closed.

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### **SECTION 2: Hazards identification**

Hazardous ingredients: Morcarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

2-butanone oxime phthalic anhydride

cobalt bis(2-ethylhexanoate) cobalt(2+) propionate

Supplemental label elements : Repeated exposure may cause skin dryness or cracking.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Restricted to professional users.

Special packaging requirements

Containers to be fitted with child-

resistant fastenings:

Not applicable.

Tactile warning of danger: Not applicable.

### 2.3 Other hazards

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

Other hazards which do not result None known.

in classification:

### **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Product/ingredient name	Identifiers	%	GB CLP Classification	Туре
ydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aromatics (2-25%)	REACH #: 01-2119458049-33 EC: 265-185-4 CAS: 64742-82-1 Index: 649-405-00-X	≥25 - ≤50	Flam. Liq. 3, H226 STOT SE 3, H336 STOT RE 1, H372 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≤10	Carc. 2, H351 (inhalation)	[1] [*]
trizinc bis(orthophosphate)	REACH #: 01-2119485044-40 EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≤3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315	[1] [2]
2-butanone oxime	REACH #: 01-2119539477-28 EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0	<1	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 1, H370 (upper respiratory tract) STOT SE 3, H336 STOT RE 2, H373 (blood system)	[1]
phthalic anhydride	REACH #: 01-2119457017-41 EC: 201-607-5 CAS: 85-44-9 Index: 607-009-00-4	≤0.3	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335	[1] [2]
cobalt bis(2-ethylhexanoate)	REACH #: 01-2119524678-29 EC: 205-250-6 CAS: 136-52-7	<0.3	Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 (M=1) Aquatic Chronic 3, H412	[1] [2]
calcium bis(2-ethylhexanoate)	EC: 205-249-0 CAS: 136-51-6 Index: 607-230-00-6	<0.3	Repr. 1B, H360D	[1]
cobalt(2+) propionate	REACH #: 01-2119532653-41 EC: 216-333-1 CAS: 1560-69-6	<0.1	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319 Skin Sens. 1A, H317 Repr. 1B, H360F Aquatic Acute 1, H400 (M=1)	[1] [2]

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### **SECTION 3: Composition/information on ingredients**

Aquatic Chronic 2, H411

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 and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit, see section 8.

[\*] The classification as a carcinogen by inhalation applies only to mixtures placed on the market in powder form containing 1% or more of titanium dioxide particles with aerodynamic diameter ≤ 10 µm not bound within a matrix.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth

to an unconscious person.

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate

treatment (first aid).

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15

minutes, occasionally lifting the upper and lower eyelids. Seek immediate medical attention/advice.

Inhalation : Rémove to fresh air and keep at rest in a position comfortable for breathing. Give nothing by mouth. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If unconscious, place in recovery position and get medical attention

immediately.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use

recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Keep person warm

and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so

that vomit will not re-enter the mouth and throat.

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.

Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

### 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. May cause an allergic skin reaction.

Ingestion: Can cause central nervous system (CNS) depression.

### Over-exposure signs/symptoms

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 redness 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.

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### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Extinguishing media: Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray.

Not to be used : waterjet.

### 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. 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: carbon oxides phosphorus oxides metal

oxide/oxides

#### 5.3 Advice for firefighters

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. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. 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.

### **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Woid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

### 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.

### 6.3 Methods and material for containment and cleaning up

Stop leak if without risk. Move containers from spill area. 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 (see Section 13). Use spark-proof tools and explosion-proof equipment. 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

### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

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### **SECTION 7: Handling and storage**

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Product/ingredient name	Exposure limit values
ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	EU OEL (Europe, 2000). TWA: 25 ppm 8 hours.
aromatics (2-2070)	TWA: 25 ppm 6 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed
	isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours. STEL: 100 ppm 15 minutes.
phthalic anhydride	EH40/2005 WELs (United Kingdom (UK), 1/2020). Inhalation sensitiser.
	STEL: 12 mg/m³ 15 minutes.
	TWA: 4 mg/m³ 8 hours.
cobalt bis(2-ethylhexanoate)	EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and cobalt
	compounds] Inhalation sensitiser.
h14(O+) mannismats	TWA: 0.1 mg/m³, (as Co) 8 hours.
cobalt(2+) propionate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [cobalt and cobalt compounds] Inhalation sensitiser.
	TWA: 0.1 mg/m³, (as Co) 8 hours.
	1777. 0.1 mg/m , (ao 00) 0 moaro.

### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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.

### **Derived effect levels**

Product/ingredient name	Type	Exposure	Value	Population	Effects
ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	DNEL	Long term Dermal	21 mg/kg bw/day	Workers	Systemic
• • • • • • • • • • • • • • • • • • • •	DNEL	Long term Inhalation	330 mg/m³	Workers	Systemic
trizinc bis(orthophosphate)	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
, , ,	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
xylene	DNEL	Long term Inhalation	77 mg/m³	Workers	Systemic
•	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic
2-butanone oxime	DNEL	Long term Inhalation	9 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.3 mg/kg bw/day	Workers	Systemic
phthalic anhydride	DNEL	Long term Dermal	14 mg/kg bw/day	Workers	Systemic
•	DNEL	Long term Inhalation	49.4 mg/m³	Workers	Systemic
cobalt(2+) propionate	DNEL	Long term Inhalation	21.9 µg/m³	General population	Local
	DNEL	Long term Oral	33.1 μg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	139.2 μg/m³	Workers	Local

### Predicted effect concentrations

Product/ingredient name	Compartment Detail	Value	Method Detail
trizinc bis(orthophosphate)	Fresh water	20.6 μg/l	-
	Marine water	6.1 µg/l	-
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
	Sewage Treatment Plant	52 μg/l	-
xylene	Fresh water	0.327 mg/l	-
•	Marine water	0.327 mg/l	-
	Fresh water sediment	12.46 mg/kg	-
	Marine water sediment	12.46 mg/kg	-
	Soil	2.31 mg/kg	-
	Sewage Treatment Plant	6.68 mg/l	-
cobalt bis(2-ethylhexanoate)	Sewage Treatment Plant	0.37 mg/l	-
,	Fresh water	0.62 µg/l	-

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### **SECTION 8: Exposure controls/personal protection**

Marine water 2.36 μg/l -	
Fresh water sediment 53.8 mg/kg dwt -	
Marine water sediment 69.8 mg/kg dwt -	
Soil 10.9 mg/kg dwt -	

### 8.2 Exposure controls

#### Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

#### Individual protection measures

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be

worn when soiling is so great that regular work clothes do not adequately protect skin against contact

with the product. Safety eyewear should be used when there is a likelihood of exposure.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking,

using lavatory, and at the end of day.

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of

protection: safety glasses with side-shields.

Hand protection: Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The

quality of the chemical-resistant protective gloves must be chosen as a function of the specific

workplace concentrations and quantity of hazardous substances.

Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the

appropriate type. Below listed glove(s) should be regarded as generic advice:

Recommended: Silver Shield / Barrier / 4H gloves, polyvinyl alcohol (PVA), Viton®, nitrile rubber Short term exposure: neoprene rubber, butyl rubber, natural rubber (latex), polyvinyl chloride (PVC)

Body protection: Personal protective equipment for the body should be selected based on the task being performed and

the risks involved handling this product.

Wear suitable protective clothing. Always wear protective clothing when spraying.

Respiratory protection : When the product is applied by spraying and for continuous or prolonged work always wear an air-fed

respirator e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle

filter of type P. Be sure to use an approved/certified respirator or equivalent.

### **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**

### 9.1 Information on basic physical and chemical properties

Physical state : Liquid.

Colour : Grey.

Odour : Solvent-like

pH: Testing not relevant or not possible due to nature of the product.

Melting point/freezing point: Testing not relevant or not possible due to nature of the product.

Boiling point/boiling range: Testing not relevant or not possible due to nature of the product.

Flash point: Closed cup: 38°C (100.4°F)

Evaporation rate: Testing not relevant or not possible due to nature of the product.

Flammability: Highly flammable in the presence of the following materials or conditions: open flames, sparks and

static discharge and heat.

Lower and upper explosive

(flammable) limits:

0.8 - 7.6 vol %

Vapour pressure : Testing not relevant or not possible due to nature of the product.

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### **Hempalin Primer 12050**



### **SECTION 9: Physical and chemical properties**

Vapour density: Testing not relevant or not possible due to nature of the product.

Specific gravity: 1.29 g/cm³

Partition coefficient (LogKow): Testing not relevant or not possible due to nature of the product.

Auto-ignition temperature: Lowest known value: 280 - 470°C (536 - 878°F) (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics,

aromatics (2-25%)).

Decomposition temperature: Testing not relevant or not possible due to nature of the product.

Viscosity: Kinematic (40°C): >21 mm<sup>2</sup>/s

Explosive properties: Testing not relevant or not possible due to nature of the product.

Oxidising properties: Testing not relevant or not possible due to nature of the product.

9.2 Other information

Solvent(s) % by weight : Weighted average: 31 % Water % by weight : Weighted average: 0 %

VOC content : 402.6 g/l

TOC Content: Weighted average: 361 g/l
Solvent Gas: Weighted average: 0.082 m³/l

**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.

### 10.5 Incompatible materials

Highly reactive or incompatible with the following materials: oxidising materials.

Reactive or incompatible with the following materials: reducing materials, organic materials, acids, alkalis and moisture.

### 10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides phosphorus oxides metal oxide/oxides

### **SECTION 11: Toxicological information**

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

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

### **Acute toxicity**

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### **Hempalin Primer 12050**



### **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.8 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
trizinc bis(orthophosphate)	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LC50 Inhalation Vapour	Rat	6350 ppm	4 hours
	LD50 Dermal	Rabbit	>4200 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1001 mg/kg	-
	LD50 Oral	Rat	930 mg/kg	-
phthalic anhydride	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	1530 mg/kg	-
cobalt bis(2-ethylhexanoate)	LD50 Dermal	Rabbit	>2000 mg/kg	-
,	LD50 Oral	Rat	3129 mg/kg	-

### 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
₩mpalin Primer 12050	33904	54406	247300.1		
xylene	3523	1100	5000		
2-butanone oxime	100	1100			
phthalic anhydride	1530				
cobalt bis(2-ethylhexanoate)	3129				
cobalt(2+) propionate	500				1.5

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent
xylene	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams
	Skin - Irritant	Rabbit	-	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams
2-butanone oxime	Eyes - Severe irritant	Rabbit	-	100 microliters
phthalic anhydride	Eyes - Moderate irritant	Rabbit	-	24 hours 50 milligrams

### Sensitiser

Product/ingredient name	Route of exposure	Species	Result
phthalic anhydride	skin skin	Guinea pig Mouse	Sensitising Sensitising
cobalt bis(2-ethylhexanoate)	skin	Mouse	Sensitising

### **Mutagenic effects**

No known significant effects or critical hazards.

### Carcinogenicity

May cause cancer. Risk of cancer depends on duration and level of exposure.

### Reproductive toxicity

No known significant effects or critical hazards.

### **Teratogenic effects**

No known significant effects or critical hazards.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 3		Narcotic effects
2-butanone oxime	Category 1		upper respiratory tract
phthalic anhydride	Category 3 Category 3		Narcotic effects Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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### **Hempalin Primer 12050**



### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Category 1	inhalation	central nervous system (CNS)
2-butanone oxime	Category 2	-	blood system

### **Aspiration hazard**

Product/ingredient name	Result
hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	ASPIRATION HAZARD - Category 1

### Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential chronic health effects

No known significant effects or critical hazards.

Sensitisation: Kontains 2-butanone oxime, phthalic anhydride, cobalt bis(2-ethylhexanoate). May produce an allergic

reaction.

### 11.2 Information on other hazards

Other information: No additional known significant effects or critical hazards.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Do not allow to enter drains or watercourses. Toxic to aquatic life with long lasting effects.

Product/ingredient name	Result	Species	Exposure
ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Chronic EC50 4.6 - 10 mg/l	Algae	72 hours
	Chronic EC50 10 - 20 mg/l	Daphnia	48 hours
	Chronic EC50 10 - 30 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
trizinc bis(orthophosphate)	Acute EC50 0.8 mg/l	Algae	72 hours
, , ,	Acute EC50 2.44 mg/l	Daphnia	48 hours
phthalic anhydride	Acute EC50 >640 mg/l Fresh water	Daphnia	48 hours
cobalt bis(2-ethylhexanoate)	Acute LC50 0.1 - 1 mg/l	Fish	96 hours

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	OECD 301F Ready Biodegradability - Manometric Respirometry Test	74.7 % - Readily - 28 days	-	-
xylene	OECD 301F Ready Biodegradability - Manometric Respirometry Test	90 - 98 % - Readily - 28 days	-	-
	- '	>60 % - Readily - 28 days	-	-
phthalic anhydride	-	85.2 % - Readily - 28 days	-	-
Product/ingredient name	Aquatic half-life	Photolysis	Biodeg	radability
ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	-	Readily	
xylene	-	-	Readily	
phthalic anhydride	-	-	Readily	

### 12.3 Bioaccumulative potential

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### **Hempalin Primer 12050**



### **SECTION 12: Ecological information**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
ydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	-	10 - 2500	high
trizinc bis(orthophosphate)	-	60960	high
xylene	3.12	8.1 - 25.9	low
2-butanone oxime	0.63	2.5 - 5.8	low
phthalic anhydride	1.6	3.4	low
cobalt bis(2-ethylhexanoate)	-	15600	high
calcium bis(2-ethylhexanoate)	-	2.96	low
cobalt(2+) propionate	-	15600	high

### 12.4 Mobility in soil

Soil/water partition coefficient

No known data avaliable in our database.

(Koc):

Mobility: No known data avaliable in our database.

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB		
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.									

### 12.6 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.

European waste catalogue (EWC): 08 01 11\*

### **Packaging**

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

### **SECTION 14: Transport information**

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

	14.1 UN / ID no.	14.2 Proper shipping name	14.3 Tra	s nsport hazard class(es)	14.4 PG*	14.5 Env*	Additional information
ADR/RID Class	UN1263	PAINT	3	<b>₹</b> 22	III	Yes.	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Tunnel code (D/E)
IMDG Class	UN1263	PAINT. (hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%))	3	<b>₹</b> 2	III	Yes.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.  Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT	3	<u>A</u>	III	Yes.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

PG\*: Packing group

Env.\*: Environmental hazards

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### **SECTION 14: Transport information**

### 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 Maritime transport in bulk according to IMO instruments

Not applicable.

### **SECTION 15: Regulatory information**

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation - Substances of very high concern

### **Annex XIV**

None of the components are listed.

### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Restricted to professional users.

### Other EU regulations

This product is controlled under the Seveso III Directive. Seveso category

Seveso category	Seveso	category
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P5c: Flammable liquids 2 and 3 not falling under P5a or P5b E2: Hazardous to the aquatic environment - Chronic 2

### **National regulations Non-GHS**

List name	Product/ingredient name	Name on list	Classification	Notes
UK Occupational Exposure Limits EH40 - WEL	cobalt bis(2-ethylhexanoate)	cobalt and cobalt compounds as Co	Carc.	-
UK Occupational Exposure Limits EH40 - WEL	cobalt(2+) propionate	cobalt and cobalt compounds as Co	Carc.	-

### 15.2 Chemical safety assessment



### **SECTION 16: Other information**

Abbreviations and acronyms: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

EUH statement = CLP-specific Hazard statement

RRN = REACH Registration Number DNEL = Derived No Effect Level

PNFC = Predicted No Effect Concentration

**H**226 Full text of abbreviated H statements: Flammable liquid and vapour.

H301 Toxic if swallowed. H302 Harmful if swallowed

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin. H315

Causes skin irritation. H317 May cause an allergic skin reaction.

H318 Causes serious eye damage H319 Causes serious eye irritation. H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H351 Suspected of causing cancer. H360D May damage the unborn child. H360F May damage fertility.

H370 Causes damage to organs. H372

Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H400

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. H410 H411 Toxic to aquatic life with long lasting effects.

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### **SECTION 16: Other information**

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS] : Cute Tox. 3 ACUTE TOXICITY - Category 3 Acute Tox. 4 ACUTE TOXICITY - Category 4

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
Carc. 1B CARCINOGENICITY - Category 1B
Carc. 2 CARCINOGENICITY - Category 2

Eye Dam. 1 SERIOUS EYE DAMAGE/EŸE İRRITATION - Category 1 Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Flam. Liq. 3

Repr. 1B

Resp. Sens. 1

Skin Irrit. 2

Skin Sens. 1

Skin Sens. 1 SKIN SENSITISATION - Category 1 Skin Sens. 1A SKIN SENSITISATION - Category 1A

STOT RE 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 1
STOT RE 2 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1
STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

Classification	Justification
EXAMMABLE LIQUIDS SKIN SENSITISATION CARCINOGENICITY SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE LONG-TERM (CHRONIC) AQUATIC HAZARD	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

### Notice to reader

Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical preformance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.

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### **Safe Use of Mixture Information Hempalin Primer 12050**



This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.

### General description of the process covered

Indoor or outdoor spray painting by professionals for specialist applications, with good general room ventilation plus respiratory protection

This safe use information is linked to

: Professional spray painting, near-industrial setting

Priority

Sector(s) of use

: Industrial uses - Professional uses

Product category(ies)

: Coatings and paints, thinners, paint removers

**Operational conditions** 

Place of use

: Indoor or outdoor use

Range of application/Process conditions

: Assumes a good standard of occupational hygiene and safety management has been implemented. Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Others

Depending on actual conditions of application. Please consult your local HEMPEL representative for further advise.

### Risk management measures (RMM)

Contributing activity	Process category	Maximum duration	Ventilation		Respiratory	Eye	Hands
activity	(ies)	uuration	Type and air changes per hour				
Preparation of material for application	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Industrial application of coatings by spraying	PROC07	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Use a properly fitted, air- purifying or air-fed respirator. EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Cleaning	PROC05	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.
Waste management	PROC08b	More than 4 hours	Good general room ventilation - Outdoors	3 - 5	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear chemical-resistant gloves (tested to EN374) in combination with specific activity training.

See chapter 8 of this Safety Data Sheet for specifications







