# **Hempacore One FD**



1.4 Emergency telephone number

01633 833600 (08.00 - 17.00)

measures).

Emergency telephone number (with hours of operation)

See Section 4 of the safety data sheet (first aid

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2020/878 - United Kingdom: Northern

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

1.1 Product identifier

Product name: Hempacore One FD

Product identity: 4360110000

Product type: intumescent acrylic paint

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

Field of application: buildings

Identified uses: 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: 15 December 2021 Date of previous issue: No previous validation.

**SECTION 2: Hazards identification** 

2.1 Classification of the substance or mixture

Product definition:

FLAMMABLE LIQUIDS Flam. Liq. 2, H225

Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION REPRODUCTIVE TOXICITY Repr. 2, H361fd

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

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

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE **STOT RE 2, H373** 

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

2.2 Label elements

Hazard pictograms:







Signal word: Danger

Hazard statements: H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child. H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

Prevention: Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot

surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor, mist or

spray.

Hazardous ingredients: toluene

Isomelamine

Warning! Contains Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine and Supplemental label elements:

formaldehyde. May produce an allergic reaction. Hazardous respirable droplets may be formed when

sprayed. Do not breathe spray or mist.

Special packaging requirements

Containers to be fitted with child-

resistant fastenings:

Not applicable.

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

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	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	≥10 - ≤25	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
titanium dioxide	REACH #: 01-2119489379-17 EC: 236-675-5 CAS: 13463-67-7 Index: 022-006-00-2	≥5 - ≤10	Carc. 2, H351 (inhalation)	[1] [2] [*]
Isomelamine	REACH #: 01-2119485947-16 EC: 203-615-4 CAS: 108-78-1	≥5 - ≤10	Repr. 2, H361f -	[1]
butanone	REACH #: 01-2119457290-43 EC: 201-159-0 CAS: 78-93-3 Index: 606-002-00-3	≥3 - ≤5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[1] [2]
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0	≤0.3	Skin Sens. 1B, H317 - Aquatic Chronic 3, H412	[1]
formaldehyde	REACH #: 01-2119488953-20 EC: 200-001-8 CAS: 50-00-0 Index: 605-001-00-5	<0.1	Acute Tox. 3, H301  Acute Tox. 3, H311  Acute Tox. 2, H330  Skin Corr. 1B, H314  Eye Dam. 1, H318  Skin Sens. 1, H317  Muta. 2, H341  Carc. 1B, H350  STOT SE 3, H335  See Section 16 for the full text of the H statements declared above.	[1] [2]

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.
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [\*] 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 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. In all cases of doubt, or when symptoms

persist, seek medical attention.

Inhalation: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by

mouth. If unconscious, place in recovery position and seek medical advice.

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# **Hempacore One FD**



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

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

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.

#### 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: Causes skin irritation.

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

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

> pain or irritation watering redness

Inhalation: Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact: Adverse symptoms may include the following:

> irritation redness

reduced foetal weight increase in foetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

> reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed. Treat Notes to physician:

symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested

or inhaled.

Specific treatments: No specific treatment.

# **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:

Highly 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.

Hazardous combustion products: Decomposition products may include the following materials: carbon oxides nitrogen oxides

halogenated compounds carbonyl halides metal oxide/oxides

### 5.3 Advice for firefighters

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

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

Avoid 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).

### 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)

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
toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.  STEL: 384 mg/m³ 15 minutes.  TWA: 191 mg/m³ 8 hours.  TWA: 50 ppm 8 hours.  STEL: 100 ppm 15 minutes.
butanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin.  STEL: 899 mg/m³ 15 minutes.  STEL: 300 ppm 15 minutes.  TWA: 600 mg/m³ 8 hours.  TWA: 200 ppm 8 hours.

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

formaldehyde	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 2.5 mg/m³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2.5 mg/m³ 8 hours. TWA: 2 ppm 8 hours.

#### 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	Туре	Exposure	Value	Population	Effects
toluene	DNEL	Long term Dermal	384 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	192 mg/m³	Workers	Systemic
Isomelamine	DNEL	Long term Dermal	11.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	8.3 mg/m³	Workers	Systemic
butanone	DNEL	Long term Dermal	1161 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	600 mg/m³	Workers	Systemic
formaldehyde	DNEL	Long term Dermal	240 mg/kg bw/day	Workers	Systemic
•	DNEL	Long term Inhalation	9 mg/m³	Workers	Systemic

#### **Predicted effect concentrations**

Product/ingredient name	Compartment Detail	Value	Method Detail
toluene	Fresh water	0.68 mg/l	-
	Marine water	0.68 mg/l	-
	Sewage Treatment Plant	13.61 mg/l	-
	Fresh water sediment	16.39 mg/kg	-
	Marine water sediment	16.39 mg/kg	-
	Soil	2.89 mg/kg	-
Isomelamine	Fresh water	0.51 mg/l	Assessment Factors
	Marine water	0.051 mg/l	Assessment Factors
	Sewage Treatment Plant	200 mg/l	Assessment Factors
	Fresh water sediment	2.524 mg/kg dwt	Assessment Factors
	Marine water sediment	0.252 mg/kg dwt	Assessment Factors
	Soil	0.206 mg/kg dwt	Assessment Factors
butanone	Fresh water	55.8 mg/l	-
	Marine water	55.8 mg/l	-
	Sewage Treatment Plant	709 mg/l	-
	Sediment	284.7 mg/kg dwt	-
	Soil	22.5 mg/kg dwt	-
formaldehyde	Fresh water	0.47 mg/l	-
	Marine water	0.47 mg/l	-
	Fresh water sediment	2.44 mg/kg	-
	Marine water sediment	2.44 mg/kg	-
	Soil	0.29 mg/kg	-
	Sewage Treatment Plant	0.19 mg/l	-

## 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.

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

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: chemical splash goggles.

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: polyvinyl alcohol (PVA), Silver Shield / Barrier / 4H gloves, Viton®

May be used: butyl rubber, nitrile rubber

Short term exposure: neoprene 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: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk

assessment indicates this is necessary. 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. This product contains low-boiling point liquids. Any respiratory protective equipment should be

air-fed or organic vapor filter (Type AX).

## **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 : White

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: 5°C (41°F)

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

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

static discharge.

Highly flammable in the presence of the following materials or conditions: heat and oxidising materials.

Lower and upper explosive

(flammable) limits :

1.1 - 11.5 vol %

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

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

Specific gravity: 1.331 g/cm³

Solubility(ies): Soluble in the following materials: cold water and hot water.

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

Auto-ignition temperature : Lowest known value: 404°C (759.2°F) (butanone).

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

Viscosity: Kinematic: 500 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: 26 %

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

Water % by weight: Weighted average: 0 % VOC content: 310 g/l (Measured)

VOC content, Ready-for-use 310 g/l [ISO 11890-1]

mixture:

Solvent Gas: Weighted average: 0.093 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 and acids.

#### 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 nitrogen oxides halogenated compounds carbonyl halides 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**

Product/ingredient name	Result	Species	Dose	Exposure
toluene	LC50 Inhalation Vapour	Rat	>20 mg/l	4 hours
	LD50 Oral	Rat	636 mg/kg	-
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	-
Isomelamine	LD50 Oral	Rat	3161 mg/kg	-
	LD50 Skin	Rabbit	>1000 mg/kg	-
butanone	LD50 Dermal	Rabbit	6480 mg/kg	-
formaldehyde	LC50 Inhalation Gas.	Rat	250 ppm	4 hours
-	LC50 Inhalation Vapour	Rat - Male,	0.58 mg/l	4 hours
		Female		
	LD50 Dermal	Rabbit	270 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-

Acute toxicity estimates

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# **Hempacore One FD**



# **SECTION 11: Toxicological information**

Product/ingredient name	Oral mg/kg	Dermal mg/kg	Inhalation (gases) ppm	Inhalation (vapours) mg/l	Inhalation (dusts and mists) mg/l
Isomelamine	3161	6490			
butanone formaldehyde	100	6480 270	250	0.58	

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams
titanium dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent
Isomelamine	Eyes - Mild irritant	Rabbit	-	-
butanone	Skin - Mild irritant	Rabbit	-	24 hours 402 milligrams
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Skin - Mild irritant	Rabbit	-	-
,	Eyes - Mild irritant	Rabbit	_	-
formaldehyde	Eyes - Severe irritant	Rabbit	_	24 hours 750 Micrograms
,	Skin - Mild irritant	Human	_	72 hours 150 Micrograms Intermittent
	Skin - Moderate irritant	Rabbit	_	24 hours 50 milligrams
	Skin - Severe irritant	Rabbit	-	20 hours

#### Sensitiser

Product/ingredient name	Route of exposure	Species	Result
formaldehyde	skin	Guinea pig	Sensitising
	skin	Mouse	Sensitising

# **Mutagenic effects**

No known significant effects or critical hazards.

#### Carcinogenicity

No known significant effects or critical hazards.

#### Reproductive toxicity

Suspected of damaging fertility.

# Teratogenic effects

Suspected of damaging the unborn child.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
toluene	Category 3		Narcotic effects
butanone	Category 3		Narcotic effects

# Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
toluene	Category 2	-	-

#### **Aspiration hazard**

Product/ingredient name	Result
toluene	ASPIRATION HAZARD - Category 1

# Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

# Potential chronic health effects

Sensitisation: Contains Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine. May produce an

allergic reaction.

#### 11.2 Information on other hazards

Endocrine disrupting properties: No known data avaliable in our database.

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

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Readily

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Do not allow to enter drains or watercourses.

Product/ingredient name	Result	Species	Exposure
toluene	Chronic NOEC <500000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
titanium dioxide	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Isomelamine	Acute EC50 200 mg/l	Algae	96 hours
	Acute EC50 >2000 mg/l	Daphnia	48 hours
	Acute EC50 >3000 mg/l	Fish	96 hours
butanone	Acute EC50 308 mg/l	Daphnia	48 hours
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	Acute EC50 >100 mg/l	Algae	72 hours
-	Acute EC50 >10 mg/l	Daphnia	48 hours
	Acute EC50 >10 mg/l	Fish	96 hours
formaldehyde	Chronic NOEC 0.438 mg/l Marine water	Algae - Ulva pertusa	96 hours

# 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
toluene	-	100 % - Readily - 14 days	-	-
butanone	-	98 % - Readily - 28 days	-	-
	-	89 % - 20 days	-	-
Octadecanoic acid, 12-hydroxy-,	OECD 301D Ready	22 % - Not readily - 28 days	-	-
reaction products with ethylenediamine	Biodegradability - Closed Bottle Test			
formaldehyde	OECD 301A Ready	99 % - Readily - 28 days	-	-
·	Biodegradability - DOC Die-Away Test	, ,		
Product/ingredient name	Aquatic half-life	Photolysis	Biode	gradability
toluene	-	-	Readily	
Isomelamine	-	-	Not readily	
butanone	-	-	Readily	
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	-	-	Not readily	
<b>,</b>	I .	1	1	

# 12.3 Bioaccumulative potential

$LogP_ow$	BCF	Potential
2.73	90	low
-1.22	<3.8	low
0.3	3	low
5.86	-	high
0.35	3	low
	2.73 -1.22 0.3 5.86	2.73 -1.22 0.3 5.86 90 <3.8 0.3 3

# 12.4 Mobility in soil

formaldehyde

Soil/water partition coefficient No known data avaliable in our database.

(K<sub>oc</sub>):

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 o	r a vPvB.				

# 12.6 Endocrine disrupting properties

No known data avaliable in our database.

## 12.7 Other adverse effects

No known significant effects or critical hazards.

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

# **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 Trans	port hazard class(es)	14.4 PG*		Additional information
ADR/RID Class	UN1263	PAINT	3		III	No.	<u>Special provisions</u> 640 (H) <u>Tunnel code</u> (D/E)
IMDG Class	UN1263	PAINT	3		III	No.	Emergency schedules F-E, S-E
IATA Class	UN1263	PAINT	3		II	No.	Remarks The "viscosity exemption" provisions do not apply to air transport.

PG\* : Packing group

Env.\*: Environmental hazards

# 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 Not applicable.

## Other EU regulations

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

Seveso category

P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

# **National regulations Non-GHS**

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# **Hempacore One FD**



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

List name	Product/ingredient name	Name on list	Classification	Notes
UK Occupational Exposure Limits EH40 - WEL	formaldehyde	formaldehyde; methanal	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

PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements: H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H341 Suspected of causing genetic defects.

H350 May cause cancer.

H361d Suspected of damaging the unborn child.

H361f Suspected of damaging fertility.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Full text of classifications [CLP/GHS]: Acute Tox. 2 ACUTE TOXICITY - Category 2

Acute Tox. 3 ACUTE TOXICITY - Category 3

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. 2

Muta. 2

Repr. 2

Skin Corr. 1B

Skin Irrit. 2

FLAMMABLE LIQUIDS - Category 2

REPRODUCTIVE TOXICITY - Category 2

SKIN CORROSION/IRRITATION - Category 1B

Skin Irrit. 2

SKIN CORROSION/IRRITATION - Category 2

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

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

# Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
FLAMMABLE LIQUIDS	On basis of test data
SKIN CORROSION/IRRITATION	Calculation method
REPRODUCTIVE TOXICITY	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)	Calculation method
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	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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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 spray painting by professionals with efficient ventilation such as spray booth or local exhaust ventilation

This safe use information is linked to

: Professional spray painting, near-industrial setting - Level I

HMP I/PW 01a

Sector(s) of use : Industrial uses - Professional uses

Product category(ies) : Coatings and paints, thinners, paint removers

**Operational conditions** 

Place of use : Indoor use

Range of application/Process

conditions

: Assumes a good standard of occupational hygiene and safety management has been implemented.

# Risk management measures (RMM)

Contributing activity	Process category	Maximum duration	Ventilation		Respiratory	Eye	Hands
activity	(ies)	duration	Type and air changes per hour				
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Industrial application of coatings by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	None	None
Cleaning	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.









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 painting by professionals by dipping or with brush, roller, putty knife etc. with enhanced ventilation or local exhaust ventilation (LEV)

This safe use information is linked to

: Professional low-energy painting, near-industrial setting - Level I

HMP I/PW 02a

Sector(s) of use : Industrial uses - Professional uses

Product category(ies) : Coatings and paints, thinners, paint removers

**Operational conditions** 

Place of use : Indoor use

Range of application/Process

conditions

: Assumes a good standard of occupational hygiene and safety management has been implemented.

# Risk management measures (RMM)

Contributing activity	Process	Maximum duration	Ventilation		Respiratory	Eye	Hands
activity	category (ies)	duration	Type and air cha	Type and air changes per hour			
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Industrial application of coatings by other than spraying	PROC10	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	None	None
Cleaning	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.









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 painting by professionals with brush or roller, with good general room ventilation (open doors/windows)

This safe use information is

: Professional painting, indoor brush/roller - Level I

linked to

CEPE / HMP PW 04a

Sector(s) of use

: Professional uses

Product category(ies)

: Coatings and paints, thinners, paint removers

**Operational conditions** 

Place of use : Indoor use

# Risk management measures (RMM)

Contributing	Process	Maximum	Ventilation		Respiratory	Eye	Hands
activity	(ies)	duration	Type and air cha	Type and air changes per hour			
Preparation of material for application	PROC05	More than 4 hours	Good general room ventilation	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08a	More than 4 hours	Good general room ventilation	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Professional application of coatings by brush or roller	PROC10	More than 4 hours	Good general room ventilation	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Good general room ventilation	3 - 5	None	None	None
Cleaning	PROC05	More than 4 hours	Good general room ventilation	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08a	More than 4 hours	Good general room ventilation	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.





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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

Outdoor spray painting by professionals for specialist applications, with respiratory protection

This safe use information is

: Professional spray painting, near-industrial setting - Level II

linked to HMP I/PW 05b

Sector(s) of use : Industrial uses - Professional uses

Product category(ies) : Coatings and paints, thinners, paint removers

**Operational conditions** 

Place of use : Outdoor use

Range of application/Process

conditions

: Assumes a good standard of occupational hygiene and safety management has been implemented.

# Risk management measures (RMM)

Contributing activity	Process category	Maximum duration	Ventilation		Respiratory	Eye	Hands
activity	(ies)	duration	Type and air changes per hour				
Preparation of material for application	PROC05	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Industrial application of coatings by spraying	PROC07	More than 4 hours	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 suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Outdoors	3 - 5	None	None	None
Cleaning	PROC05	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08b	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.









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

Outdoor painting by professionals by dipping or with brush, roller, putty knife etc.

This safe use information is linked to

: Professional low-energy painting, near-industrial setting - Level I

HMP I/PW 06a

Sector(s) of use : Industrial uses - Professional uses

Product category(ies) : Coatings and paints, thinners, paint removers

**Operational conditions** 

Place of use : Outdoor use

Range of application/Process

conditions

: Assumes a good standard of occupational hygiene and safety management has been implemented.

# Risk management measures (RMM)

Contributing	Process	Maximum	Ventilati	Ventilation		Eye	Hands
activity	category (ies)	duration	Type and air changes per hour				
Preparation of material for application	PROC05	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Industrial application of coatings by other than spraying	PROC10	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Outdoors	3 - 5	None	None	None
Cleaning	PROC05	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08b	More than 4 hours	Outdoors	3 - 5	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.



