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Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification	
Product identifier	
Trade name: FPD Test mix - 3 - 1ml ampoules	
Article number: L4131586	
Relevant identified uses of the substance or mixture and uses advised against	
No further relevant information available. Application of the substance / the mixture Laboratory chemicals	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
PerkinElmer, Inc.	
710 Bridgeport Avenue	
Shelton, Connecticut 06484 USA CustomerCareUS@perkinelmer.com	
203-925-4600	
 Supplier/Local:	
PerkinElmer Australia	
Lvl 2, Bldg 5, Brandon Office Park	
530-540 Springvale Road	
Glen Waverley	
Melbourne VIC 3150	
Australia	
1-800-033-391	
ausales@perkinelmer.com	
<i>Emergency telephone number:</i> CHEMTREC (within US) 800-424-9300	
CHEMTREC (from outside US) +1 703-527-3887 (call collect)	
CHEMTREC (within AU) +(61)-290372994	
Hazard(s) Identification	
Classification of the substance or mixture	
flame	
Flam. Liq. 2 H225 Highly flammable liquid and vapour.	
health hazard	
Carc. 2 H351 Suspected of causing cancer.	
	(Contd. on page



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\mathbf{V}	
Skin Irrit. 2 H.	315 Causes skin irritation.
STOT SE 3 H.	336 May cause drowsiness or dizziness.
· Label elements	
	nents The product is classified and labelled according to the Globally Harmonised System (GHS) ams GHS02, GHS07, GHS08 unger
0	
tributyl phosph	ining components of labelling:
• Hazard stateme	
	ummable liquid and vapour.
H315 Causes sk	
H351 Suspected	l of causing cancer.
H336 May caus	e drowsiness or dizziness.
Precautionary s	statements
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
<i>P303+P361+P</i> .	353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse sk with water/shower.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/internation regulations.
• Other hazards	
-	pes not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds
formaldehydes.	
	and vPvB assessment
• PBT: Not applie • vPvB: Not appli	
	icabla

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

· Dangerous components:	
26635-64-3 isooctane	98.0%
 Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 	
112-55-0 dodecane-1-thiol	1.0%
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1.0%

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Acute Tox. 4, H302; Skin Irrit. 2, H315

• Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

<u>5 Fire</u> Fighting Measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental Release Measures

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7 Handling and Storage · Handling: · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. · Information about fire - and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. · Conditions for safe storage, including any incompatibilities · Storage: • Requirements to be met by storerooms and receptacles: Store in a cool location. · Information about storage in one common storage facility: Not required. • Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles. • Specific end use(s) No further relevant information available. 8 Exposure controls and personal protection • Additional information about design of technical facilities: No further data; see item 7. · Control parameters • Ingredients with limit values that require monitoring at the workplace: 126-73-8 tributyl phosphate

WES Long-term value: 2.2 mg/m³, 0.2 ppm

• Additional information: The lists valid during the making were used as basis.

· Exposure controls

- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection:



Tightly sealed goggles

9 Physical and Chemical Properties

General Information		
Appearance: Form:	Liquid	
Form: Colour:	Clear	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range:	Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not determined.	
Density:	Not determined.	-
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	



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· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
· Solvent content: Organic solvents:	1.0 %
• Other information	No further relevant information available.

10 Stability and Reactivity

- *Reactivity* No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- $\cdot \textit{Incompatible materials: } No further relevant information available.$
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects

· Acute toxicity

· LD/LC50 values relevant for classification:

126-73-8 tributyl phosphate

Oral LD50 3000 mg/kg (rat)

· Primary irritant effect:

- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

 \cdot CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Carc. 2

12 Ecological Information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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• Behaviour in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- *Mobility in soil* No further relevant information available.
- \cdot Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- · Results of PBT and vPvB assessment
- *PBT:* Not applicable.
- · **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADG, IMDG, IATA	UN1262
UN proper shipping name	
ADG	1262 OCTANES
IMDG	OCTANES, MARINE POLLUTANT
IATA	OCTANES
Transport hazard class(es)	
ADG, IATA	
Class	3 Flammable liquids.
Label	3
IMDG	
\vee \vee	
Class	3 Flammable liquids.



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Packing group	
ADG, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	Yes
	Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids.
Stowage Category	B
Transport in bulk according to Annex II of	of Marpol
and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1262 OCTANES, 3, II

15 Regulatory information

26635-64-3	isooctane	98.0%
	🚫 Flam. Liq. 2, H225 🕉 Asp. Tox. 1, H304	
	🚸 Asp. Tox. 1, H304	
	🐼 Skin Irrit. 2, H315; STOT SE 3, H336	
112-55-0	dodecane-1-thiol	1.0%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 Flam. Liq. 4, H227	
126-73-8	tributyl phosphate	1.0%
	& Carc. 2, H351	
	🚯 Acute Tox. 4, H302; Skin Irrit. 2, H315	
Australia: P	riority Existing Chemicals	
None of the	ingredients is listed.	

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

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· National regulations:

• Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

Disclaimer

The information provided in this Material Safety Data Sheet is based on our present knowledge, and believed to be correct at the date of publication. However, no representation is made concerning its accuracy and completeness. It is intended as guidance only, and is not to be considered a warranty or quality specification. All materials may present unknown hazards, and should be used with caution. Although certain hazards are described, we cannot guarantee that these are the only hazards which exist. PerkinElmer Life and Analytical Sciences shall not be held liable for any damage resulting from handling or from contact with the product.

· Relevant phrases

H225 Highly flammable liquid and vapour.
H227 Combustible liquid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.

• Department issuing SDS: Environmental, Health and Safety

· Contact:

Within the USA: 1-(800)-762-4000 Outside the USA: 1-(203)-712-8488

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 4: Flammable liquids - Category 4 Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

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Carc. 2: Carcinogenicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Asp. Tox. 1: Aspiration hazard – Category 1 (Contd. of page 9)

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