

Printing date 07/27/2021 Review date 07/27/2021

1 Identification

- · Product identifier
- · Trade name: GC/MS Sensitivity Test Mix
- · Article number N9331078
- · 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

· Emergency telephone number:

CHEMTREC (within US) 800-424-9300

CHEMTREC (from outside US) +1 703-527-3887 (call collect)

CHEMTREC (within AU) +(61)-290372994

2 Hazard(s) identification

· Classification of the substance or mixture



Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



Health hazard

Carc. 2 H351 Suspected of causing cancer.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- · Label elements
- GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms GHS02, GHS07, GHS08
- · Signal word Danger
- · Hazard-determining components of labeling:
- *2,2,4-trimethylpentane*
- · Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H351 Suspected of causing cancer.

H336 May cause drowsiness or dizziness.

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· Precautionary statements

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. *Ground/bond container and receiving equipment.* P240 *Use explosion-proof electrical/ventilating/lighting/equipment.* P241 P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. P280 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P313 *IF exposed or concerned: Get medical advice/attention.* P312 Call a poison center/doctor if you feel unwell. P321 Specific treatment (see on this label). P362+P364 Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. P332+P313 *In case of fire: Use for extinction: CO2, powder or water spray.* P370+P378 P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

· CAS No. Description

540-84-1 2,2,4-Trimethylpentane

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	characterization: Mixtures	(Contd. of page 2
	on: Mixture of the substances listed below with nonhazardous additions.	
	s components: 2,2,4-trimethylpentane Flam. Liq. 2, H225 Asp. Tox. 1, H304 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; STOT SE 3, H336	99.79%
119-61-9	benzophenone © Carc. 2, H351 Q Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.1%
· Additiona	l Components	·
113-72-4	OCTAFLUORONAPHTHALENE	0.1%
118-74-1	hexachlorobenzene Carc. 1B, H350; STOT RE 1, H372 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.01%

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.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · 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

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Prevent seepage into sewage system, workpits and cellars.

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· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

Trotective fiction Criteria for Chemicals	
· PAC-1:	
540-84-1 2,2,4-trimethylpentane	230 ppm
119-61-9 benzophenone	$1.5 mg/m^3$
118-74-1 hexachlorobenzene	0.006 mg/m^3
· PAC-2:	
540-84-1 2,2,4-trimethylpentane	830 ppm
119-61-9 benzophenone	90 mg/m³
118-74-1 hexachlorobenzene	14 mg/m³
· PAC-3:	
540-84-1 2,2,4-trimethylpentane	5000* ppm
119-61-9 benzophenone	310 mg/m³
118-74-1 hexachlorobenzene	91 mg/m³

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 protection against explosions and fires:

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 receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

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8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

540-84-1 2,2,4-trimethylpentane

TLV Long-term value: 1401 mg/m³, 300 ppm

119-61-9 benzophenone

WEEL Long-term value: 0.5 mg/m³

- · Additional information: The lists that were valid during the creation 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.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

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



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Physical and chemical propert	
· Information on basic physical and c	hemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color:	Transparent
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-107 °C (-160.6 °F)
Boiling point/Boiling range:	99 °C (210.2 °F)
· Flash point:	-12 °C (10.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	410 °C (770 °F)
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vap mixtures are possible.
· Explosion limits:	
Lower:	1.1 Vol %
Upper:	6 Vol %
· Vapor pressure at 20 °C (68 °F):	15 hPa (11.3 mm Hg)
· Density at 20 °C (68 °F):	0.69 g/cm³ (5.75805 lbs/gal)
Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.8 %
VOC content:	99.79 %
· Other information	No further relevant information available.



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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.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
119-61-9 benzophenone	2B
118-74-1 hexachlorobenzene	2B
· NTP (National Toxicology Program)	
118-74-1 hexachlorobenzene	R
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · 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.

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· Other adverse effects No further relevant information available.

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13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Dispose of container and materials in accordance with local, regional and national regulations.

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

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· UN-Number · DOT, ADR, IMDG, IATA	UN1993
· UN proper shipping name	
$\cdot DOT$	Flammable liquids, n.o.s. (Octanes)
$\cdot ADR$	1993 FLAMMABLE LIQUID, N.O.S., special provision 640D
	(OCTANES), ENVIRONMENTALLY HAZARDOUS
· IMDG	FLAMMABLE LIQUID, N.O.S. (OCTANES, benzophenone),
	MARINE POLLUTANT
·IATA	FLAMMABLE LIQUID, N.O.S. (OCTANES)

- · Transport hazard class(es)
- $\cdot DOT$



· Class· Label3 Flammable liquids3

 $\cdot ADR$



· Class 3 (F1) Flammable liquids · Label 3

· IMDG



· Class 3 Flammable liquids

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·Label	3
· IATA	
· Class · Label	3 Flammable liquids
· Packing group · DOT, ADR, IMDG, IATA	II
Environmental hazards:	Product contains environmentally hazardous substances: 2,2, trimethylpentane
· Marine pollutant: · Special marking (ADR):	Yes Symbol (fish and tree) Symbol (fish and tree)
Special precautions for user Hazard identification number (Kemler code) EMS Number: Stowage Category	Warning: Flammable liquids : 33 F-E, <u>S-E</u> B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· ADR · 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) · Excepted quantities (EQ)	IL Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISIO 640D (OCTANES), 3, II, ENVIRONMENTALLY HAZARDOUS

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Flam. Liq. 2, H225	15 Regulai	ory information	
\$\frac{540-84-1}{6} 2,2,4-trimethylpentane	· Safety, h	ealth and environmental regulations/legislation specific for the substance or mixture	
Asp. Tox. 1, H300 Aquatic Chronic 1, H410			99.79%
13-72-4 OCTAFLUORONAPHTHALENE 0.1% 113-72-4 OCTAFLUORONAPHTHALENE 0.1% 119-61-9 benzophenone 0.1% 12-61-9 department of the ingredients is listed. 12-61-9 section 355 (extremely hazardous substances): 12-61-1 hexachlorobenzene 0.1% 12-74-1 hexachlorobenzene 0.2% 12-74-1 hex		♦ Flam. Liq. 2, H225	
Skin Prit. 2, H315; STOT SE 3, H336 0.1% 113-72-4 OCTAFLUORONAPHTHALENE 0.1% 119-61-9 benzophenone 0.1% Carc. 2, H351 1400; Aquatic Chronic 1, H410 Sara Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): 118-74-1 hexachlorobenzene ACTIVE 119-61-9 benzophenone ACTIVE 119-61-9 benzophenone ACTIVE 118-74-1 hexachlorobenzene Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 118-74-1 hexachlorobenzene Cancerogenity categories EPA (Environmental Protection Agency) 540-84-1 2,2,4-trimethylpentane II 118-74-1 hexachlorobenzene B2 TLV (Threshold Limit Value established by ACGIH) 118-74-1 hexachlorobenzene A3 A3 Apachlorobenzene A3 A4 Apachlorobenzene A4 A5 A4 Apachlorobenzene A5 A5 A5 A5 A5 A5 A5 A6 A5 A5 A5 A5 A7 A5 A5 A5 A5 A8 A5 A5 A5 A8 A5 A5 A5 A8			
113-72-4 OCTAFLUORONAPHTHALENE 0.1% 119-61-9 benzophenone 0.1% Sara Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): 118-74-1 hexachlorobenzene			
119-61-9 benzophenone Q.1% Sara Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): 118-74-1 hexachlorobenzene ACTIVE Hazardous Air Pollutants Hexachlorobenzene ACTIVE Hazardous Air Pollutants Hexachlorobenzene Hazardous Air Pollutants Hazardous Air Pollutants Hexachlorobenzene Hazardous Air Pollutants Hexachlorobenzene Hazardous Air Pollutants Hazardous Air Pollutan	113-72-4		0.1%
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Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): 118-74-1 hexachlorobenzene TSCA (Toxic Substances Control Act): All ingredients are listed. \$40-84-1 2,2,4-trimethylpentane ACTIVE 119-61-9 benzophenone ACTIVE 118-74-1 hexachlorobenzene ACTIVE Hazardous Air Pollutants \$40-84-1 2,2,4-trimethylpentane ACTIVE Hazardous Air Pollutants \$40-84-1 2,2,4-trimethylpentane 118-74-1 hexachlorobenzene Proposition 65 Chemicals known to cause cancer: 119-61-9 benzophenone 118-74-1 hexachlorobenzene Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. Chemicals known to cause developmental toxicity: 118-74-1 hexachlorobenzene Cancerogenity categories EPA (Environmental Protection Agency) \$40-84-1 2,2,4-trimethylpentane II 118-74-1 hexachlorobenzene B2 TLV (Threshold Limit Value established by ACGIH) 118-74-1 hexachlorobenzene A2		♦ Carc. 2, H351	
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118-74-1 hexachlorobenzene	None of t	he ingredients is listed.	
118-74-1 hexachlorobenzene	· Section 3	13 (Specific toxic chemical listings):	
### All ingredients are listed. \$40-84-1 2,2,4-trimethylpentane			
### All ingredients are listed. \$40-84-1 2,2,4-trimethylpentane	· TSCA (T	oxic Substances Control Act):	
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118-74-1 hexachlorobenzene	· Propositi	on 65	
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	118-74-1	hexachlorobenzene	(Contd. on page 11



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· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · 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.

- · Water hazard 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 shall not be held liable for any damage resulting from handling or from contact with the product.

· 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

* Data compared to the previous version altered.