

# SAFETY DATA SHEET



GC - MS Multi-Component Checkout Sample, Part Number 5185-5840

## Section 1. Identification

**Product identifier** : GC - MS Multi-Component Checkout Sample, Part Number 5185-5840  
**Part no. (chemical kit)** : 5185-5840  
**Part no.** : Benzophenone in isooctane, 100 pg/μl 8500-5440-1  
 OFN in Isooctane, 1 pg/μl 8500-5441-1  
 GC/MS Checkout Sample, 10 ng/ul 05970-60045-1

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

**Identified uses** : Reagents and Standards for Analytical Chemistry Laboratory Use  
 Benzophenone in isooctane, 100 pg/μl 1 x 1 ml  
 OFN in Isooctane, 1 pg/μl 2 x 1 ml  
 GC/MS Checkout Sample, 10 ng/ul 1 x 1 ml

**Supplier/Manufacturer** : Agilent Technologies Australia Pty Ltd  
 679 Springvale Road  
 Mulgrave  
 Victoria 3170, Australia  
 1800 802 402

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(61)-290372994

## Section 2. Hazard(s) identification

### Classification of the substance or mixture

#### Benzophenone in isooctane, 100 pg/μl

H225 FLAMMABLE LIQUIDS - Category 2  
 H315 SKIN CORROSION/IRRITATION - Category 2  
 H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  
 H304 ASPIRATION HAZARD - Category 1  
 H400 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
 H410 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

#### OFN in Isooctane, 1 pg/μl

H225 FLAMMABLE LIQUIDS - Category 2  
 H315 SKIN CORROSION/IRRITATION - Category 2  
 H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  
 H304 ASPIRATION HAZARD - Category 1  
 H400 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
 H410 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

#### GC/MS Checkout Sample, 10 ng/ul

H225 FLAMMABLE LIQUIDS - Category 2  
 H315 SKIN CORROSION/IRRITATION - Category 2  
 H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  
 H304 ASPIRATION HAZARD - Category 1  
 H400 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
 H410 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

## Section 2. Hazard(s) identification

### GHS label elements

#### Hazard pictograms

: Benzophenone in isooctane,  
100 pg/μl



OFN in Isooctane, 1 pg/μl



GC/MS Checkout Sample,  
10 ng/ul



#### Signal word

: Benzophenone in isooctane, 100 pg/μl DANGER

OFN in Isooctane, 1 pg/μl DANGER

GC/MS Checkout Sample, 10 ng/ul DANGER

#### Hazard statements

: Benzophenone in isooctane, 100 pg/μl H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H410 - Very toxic to aquatic life with long lasting effects.

OFN in Isooctane, 1 pg/μl

H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H410 - Very toxic to aquatic life with long lasting effects.

GC/MS Checkout Sample,  
10 ng/ul

H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H336 - May cause drowsiness or dizziness.

H410 - Very toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

: Benzophenone in isooctane, 100 pg/μl P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 - Avoid release to the environment.

OFN in Isooctane, 1 pg/μl

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 - Avoid release to the environment.

GC/MS Checkout Sample,  
10 ng/ul

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 - Avoid release to the environment.

#### Response

: Benzophenone in isooctane, 100 pg/μl P391 - Collect spillage.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

OFN in Isooctane, 1 pg/μl

P391 - Collect spillage.

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

GC/MS Checkout Sample,  
10 ng/ul

P391 - Collect spillage.

## Section 2. Hazard(s) identification

		P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
<b>Storage</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl  GC/MS Checkout Sample, 10 ng/ul	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
<b>Disposal</b>	: Benzophenone in isooctane, 100 pg/μl  OFN in Isooctane, 1 pg/μl  GC/MS Checkout Sample, 10 ng/ul	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>		
<b>Additional warning phrases</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	Not applicable. Not applicable. Not applicable.
<b>Other hazards which do not result in classification</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	None known. None known. None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	Mixture Mixture Mixture
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### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
<b>Benzophenone in isooctane, 100 pg/μl</b>		
2,2,4-trimethylpentane	≥90	540-84-1
<b>OFN in Isooctane, 1 pg/μl</b>		
2,2,4-trimethylpentane	≥90	540-84-1
<b>GC/MS Checkout Sample, 10 ng/ul</b>		
2,2,4-trimethylpentane	≥90	540-84-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

## Section 4. First aid measures

### Description of necessary first aid measures

<b>Eye contact</b>	: Benzophenone in isooctane, 100 pg/μl	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	OFN in Isooctane, 1 pg/μl	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	GC/MS Checkout Sample, 10 ng/ul	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
<b>Inhalation</b>	: Benzophenone in isooctane, 100 pg/μl	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	OFN in Isooctane, 1 pg/μl	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	GC/MS Checkout Sample, 10 ng/ul	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Skin contact</b>	: Benzophenone in isooctane, 100 pg/μl	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	OFN in Isooctane, 1 pg/μl	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue

## Section 4. First aid measures

	GC/MS Checkout Sample, 10 ng/ul	to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Benzophenone in isooctane, 100 pg/ul	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	OFN in Isooctane, 1 pg/ul	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	GC/MS Checkout Sample, 10 ng/ul	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: Benzophenone in isooctane, 100 pg/ul	No known significant effects or critical hazards.
	OFN in Isooctane, 1 pg/ul	No known significant effects or critical hazards.
	GC/MS Checkout Sample, 10 ng/ul	No known significant effects or critical hazards.

## Section 4. First aid measures

<b>Inhalation</b>	: Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl  GC/MS Checkout Sample, 10 ng/ul	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	: Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Causes skin irritation. Causes skin irritation. Causes skin irritation.
<b>Ingestion</b>	: Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl  GC/MS Checkout Sample, 10 ng/ul	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
<b><u>Over-exposure signs/symptoms</u></b>		
<b>Eye contact</b>	: Benzophenone in isooctane, 100 pg/µl  OFN in Isooctane, 1 pg/µl  GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:  pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness
<b>Inhalation</b>	: Benzophenone in isooctane, 100 pg/µl  OFN in Isooctane, 1 pg/µl  GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: Benzophenone in isooctane, 100 pg/µl  OFN in Isooctane, 1 pg/µl  GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:  irritation redness Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following:

## Section 4. First aid measures

		irritation redness
<b>Ingestion</b>	: Benzophenone in isooctane, 100 pg/μl	Adverse symptoms may include the following:
	OFN in Isooctane, 1 pg/μl	nausea or vomiting Adverse symptoms may include the following: nausea or vomiting
	GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following: nausea or vomiting
<b><u>Indication of immediate medical attention and special treatment needed, if necessary</u></b>		
<b>Notes to physician</b>	: Benzophenone in isooctane, 100 pg/μl	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	OFN in Isooctane, 1 pg/μl	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	GC/MS Checkout Sample, 10 ng/ul	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: Benzophenone in isooctane, 100 pg/μl	No specific treatment.
	OFN in Isooctane, 1 pg/μl	No specific treatment.
	GC/MS Checkout Sample, 10 ng/ul	No specific treatment.
<b>Protection of first-aiders</b>	: Benzophenone in isooctane, 100 pg/μl	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.
	OFN in Isooctane, 1 pg/μl	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.
	GC/MS Checkout Sample, 10 ng/ul	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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: Benzophenone in isooctane, 100 pg/μl	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	OFN in Isooctane, 1 pg/μl	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	GC/MS Checkout Sample, 10 ng/ul	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
<b>Unsuitable extinguishing media</b>	: Benzophenone in isooctane, 100 pg/μl	Do not use water jet.
	OFN in Isooctane, 1 pg/μl	Do not use water jet.
	GC/MS Checkout Sample, 10 ng/ul	Do not use water jet.



## Section 5. Firefighting measures

<b>Specific hazards arising from the chemical</b>	: Benzophenone in isooctane, 100 pg/μl	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. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very 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.
	OFN in Isooctane, 1 pg/μl	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. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very 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.
	GC/MS Checkout Sample, 10 ng/ul	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. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is very 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.
<b>Hazardous thermal decomposition products</b>	: Benzophenone in isooctane, 100 pg/μl	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	OFN in Isooctane, 1 pg/μl	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	GC/MS Checkout Sample, 10 ng/ul	Decomposition products may include the following materials: carbon dioxide carbon monoxide
<b>Special protective actions for fire-fighters</b>	: Benzophenone in isooctane, 100 pg/μl	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	OFN in Isooctane, 1 pg/μl	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.



## Section 5. Firefighting measures

	GC/MS Checkout Sample, 10 ng/ul	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
<b>Special protective equipment for fire-fighters</b>	: Benzophenone in isooctane, 100 pg/μl	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	OFN in Isooctane, 1 pg/μl	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	GC/MS Checkout Sample, 10 ng/ul	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>Hazchem code</b>	: Benzophenone in isooctane, 100 pg/μl	3YE
	OFN in Isooctane, 1 pg/μl	3YE
	GC/MS Checkout Sample, 10 ng/ul	3YE

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: Benzophenone in isooctane, 100 pg/μl	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	OFN in Isooctane, 1 pg/μl	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	GC/MS Checkout Sample, 10 ng/ul	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## Section 6. Accidental release measures

<b>For emergency responders</b>	: Benzophenone in isooctane, 100 pg/μl	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	OFN in Isooctane, 1 pg/μl	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	GC/MS Checkout Sample, 10 ng/ul	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

<b>Environmental precautions</b>	: Benzophenone in isooctane, 100 pg/μl	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
	OFN in Isooctane, 1 pg/μl	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
	GC/MS Checkout Sample, 10 ng/ul	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: Benzophenone in isooctane, 100 pg/μl	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	OFN in Isooctane, 1 pg/μl	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	GC/MS Checkout Sample, 10 ng/ul	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

<b>Protective measures</b>	: Benzophenone in isooctane, 100 pg/μl	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
	OFN in Isooctane, 1 pg/μl	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
	GC/MS Checkout Sample, 10 ng/ul	Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Advice on general occupational hygiene</b>	: Benzophenone in isooctane, 100 pg/μl	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	OFN in Isooctane, 1 pg/μl	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

## Section 7. Handling and storage

	GC/MS Checkout Sample, 10 ng/ul	before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
<p><b>Conditions for safe storage, including any incompatibilities</b></p>	: Benzophenone in isooctane, 100 pg/μl	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	OFN in Isooctane, 1 pg/μl	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	GC/MS Checkout Sample, 10 ng/ul	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

## Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
<b>Benzophenone in isooctane, 100 pg/μl</b> 2,2,4-trimethylpentane	<b>ACGIH TLV (United States, 1/2023).</b> <b>[Octane]</b> TWA: 300 ppm 8 hours.
<b>OFN in Isooctane, 1 pg/μl</b> 2,2,4-trimethylpentane	<b>ACGIH TLV (United States, 1/2023).</b> <b>[Octane]</b> TWA: 300 ppm 8 hours.
<b>GC/MS Checkout Sample, 10 ng/ul</b> 2,2,4-trimethylpentane	<b>ACGIH TLV (United States, 1/2023).</b> <b>[Octane]</b> TWA: 300 ppm 8 hours.

### Biological exposure indices

No exposure indices known.

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

**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.

### Individual protection measures

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

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

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

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

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

## Section 8. Exposure controls and personal protection

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

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

### Appearance

<b>Physical state</b>	: Benzophenone in isooctane, 100 pg/μl	Liquid.
	: OFN in Isooctane, 1 pg/μl	Liquid.
	: GC/MS Checkout Sample, 10 ng/ul	Liquid.
<b>Colour</b>	: Benzophenone in isooctane, 100 pg/μl	Light
	: OFN in Isooctane, 1 pg/μl	Colourless.
	: GC/MS Checkout Sample, 10 ng/ul	Clear. / Colourless.
<b>Odour</b>	: Benzophenone in isooctane, 100 pg/μl	Gasoline-like [Strong]
	: OFN in Isooctane, 1 pg/μl	Gasoline-like [Strong]
	: GC/MS Checkout Sample, 10 ng/ul	Gasoline-like
<b>Odour threshold</b>	: Benzophenone in isooctane, 100 pg/μl	Not available.
	: OFN in Isooctane, 1 pg/μl	Not available.
	: GC/MS Checkout Sample, 10 ng/ul	Not available.
<b>pH</b>	: Benzophenone in isooctane, 100 pg/μl	Not available.
	: OFN in Isooctane, 1 pg/μl	Not available.
	: GC/MS Checkout Sample, 10 ng/ul	Not available.
<b>Melting point/freezing point</b>	: Benzophenone in isooctane, 100 pg/μl	-107°C (-160.6°F)
	: OFN in Isooctane, 1 pg/μl	-107°C (-160.6°F)
	: GC/MS Checkout Sample, 10 ng/ul	-107°C (-160.6°F)
<b>Boiling point, initial boiling point, and boiling range</b>	: Benzophenone in isooctane, 100 pg/μl	99.2°C (210.6°F)
	: OFN in Isooctane, 1 pg/μl	99.2°C (210.6°F)
	: GC/MS Checkout Sample, 10 ng/ul	99.2°C (210.6°F)
<b>Flash point</b>	: Benzophenone in isooctane, 100 pg/μl	Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.] Open cup: 4.5°C (40.1°F)
	: OFN in Isooctane, 1 pg/μl	Closed cup: -18 to 23°C (-0.4 to 73.4°F) [Based on solvent.] Open cup: 4.5°C (40.1°F)
	: GC/MS Checkout Sample, 10 ng/ul	Closed cup: -18 to 23°C (-0.4 to 73.4°F) Open cup: 4.5°C (40.1°F)
<b>Evaporation rate</b>	: Benzophenone in isooctane, 100 pg/μl	3.6 (butyl acetate = 1)
	: OFN in Isooctane, 1 pg/μl	Not available.
	: GC/MS Checkout Sample, 10 ng/ul	Not available.



## Section 9. Physical and chemical properties and safety characteristics

<b>Flammability</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not applicable. Not applicable. Not applicable.								
<b>Lower and upper explosion limit/flammability limit</b>	:	Benzophenone in isooctane, 100 pg/µl  OFN in Isooctane, 1 pg/µl  GC/MS Checkout Sample, 10 ng/ul	Lower: 1.1%  Upper: <=13% Lower: 1.1% Upper: 6% Lower: 1.1%  Upper: 6%								
<b>Vapour pressure</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	5.5 kPa (41 mm Hg) 5.5 kPa (41 mm Hg) 5.5 kPa (41 mm Hg)								
<b>Relative vapour density</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	>1 [Air = 1] 3.93 [Air = 1] 3.93 [Air = 1]								
<b>Relative density</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not available. 0.692 Not available.								
<b>Solubility(ies)</b>	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Media</th> <th style="text-align: left;">Result</th> </tr> </thead> <tbody> <tr> <td>Benzophenone in isooctane, 100 pg/µl water</td> <td>Insoluble</td> </tr> <tr> <td>OFN in Isooctane, 1 pg/µl water</td> <td>Insoluble</td> </tr> <tr> <td>GC/MS Checkout Sample, 10 ng/ul water</td> <td>Insoluble</td> </tr> </tbody> </table>		Media	Result	Benzophenone in isooctane, 100 pg/µl water	Insoluble	OFN in Isooctane, 1 pg/µl water	Insoluble	GC/MS Checkout Sample, 10 ng/ul water	Insoluble
Media	Result										
Benzophenone in isooctane, 100 pg/µl water	Insoluble										
OFN in Isooctane, 1 pg/µl water	Insoluble										
GC/MS Checkout Sample, 10 ng/ul water	Insoluble										
<b>Partition coefficient: n-octanol/water</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	4.5 Not applicable. Not applicable.								
<b>Auto-ignition temperature</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	418°C (784.4°F) 418°C (784.4°F) 418°C (784.4°F)								
<b>Decomposition temperature</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not available. Not available. Not available.								
<b>Viscosity</b>	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not available. Not available. Not available.								

### Particle characteristics

## Section 9. Physical and chemical properties and safety characteristics

<b>Median particle size</b>	: Benzophenone in isooctane, 100 pg/µl	Not applicable.
	OFN in Isooctane, 1 pg/µl	Not applicable.
	GC/MS Checkout Sample, 10 ng/ul	Not applicable.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: Benzophenone in isooctane, 100 pg/µl	No specific test data related to reactivity available for this product or its ingredients.
	OFN in Isooctane, 1 pg/µl	No specific test data related to reactivity available for this product or its ingredients.
	GC/MS Checkout Sample, 10 ng/ul	No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: Benzophenone in isooctane, 100 pg/µl	The product is stable.
	OFN in Isooctane, 1 pg/µl	The product is stable.
	GC/MS Checkout Sample, 10 ng/ul	The product is stable.
<b>Possibility of hazardous reactions</b>	: Benzophenone in isooctane, 100 pg/µl	Under normal conditions of storage and use, hazardous reactions will not occur.
	OFN in Isooctane, 1 pg/µl	Under normal conditions of storage and use, hazardous reactions will not occur.
	GC/MS Checkout Sample, 10 ng/ul	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid</b>	: Benzophenone in isooctane, 100 pg/µl	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
	OFN in Isooctane, 1 pg/µl	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
	GC/MS Checkout Sample, 10 ng/ul	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
<b>Incompatible materials</b>	: Benzophenone in isooctane, 100 pg/µl	Reactive or incompatible with the following materials: oxidising materials
	OFN in Isooctane, 1 pg/µl	Reactive or incompatible with the following materials: oxidising materials
	GC/MS Checkout Sample, 10 ng/ul	Reactive or incompatible with the following materials: oxidising materials

## Section 10. Stability and reactivity

<b>Hazardous decomposition products</b>	: Benzophenone in isooctane, 100 pg/µl	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	OFN in Isooctane, 1 pg/µl	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	GC/MS Checkout Sample, 10 ng/ul	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>Benzophenone in isooctane, 100 pg/µl</b> 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral		>5000 mg/kg	-
<b>OFN in Isooctane, 1 pg/µl</b> 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral		>5000 mg/kg	-
<b>GC/MS Checkout Sample, 10 ng/ul</b> 2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral		>5000 mg/kg	-

#### Irritation/Corrosion

Not available.

#### Sensitisation

Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

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

Name	Category	Route of exposure	Target organs
<b>Benzophenone in isooctane, 100 pg/µl</b> 2,2,4-trimethylpentane	Category 3	-	Narcotic effects
<b>OFN in Isooctane, 1 pg/µl</b> 2,2,4-trimethylpentane	Category 3	-	Narcotic effects
<b>GC/MS Checkout Sample, 10 ng/ul</b>			

**Section 11. Toxicological information**

2,2,4-trimethylpentane	Category 3	-	Narcotic effects
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**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Name	Result
<b>Benzophenone in isooctane, 100 pg/μl</b> Benzophenone in isooctane, 100 pg/μl 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
<b>OFN in Isooctane, 1 pg/μl</b> OFN in Isooctane, 1 pg/μl 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
<b>GC/MS Checkout Sample, 10 ng/ul</b> GC/MS Checkout Sample, 10 ng/ul 2,2,4-trimethylpentane	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

<b>Information on likely routes of exposure</b>	<b>Benzophenone in isooctane, 100 pg/μl</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	<b>OFN in Isooctane, 1 pg/μl</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	<b>GC/MS Checkout Sample, 10 ng/ul</b>	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

**Potential acute health effects**

<b>Eye contact</b>	<b>Benzophenone in isooctane, 100 pg/μl</b>	No known significant effects or critical hazards.
	<b>OFN in Isooctane, 1 pg/μl</b>	No known significant effects or critical hazards.
	<b>GC/MS Checkout Sample, 10 ng/ul</b>	No known significant effects or critical hazards.
<b>Inhalation</b>	<b>Benzophenone in isooctane, 100 pg/μl</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	<b>OFN in Isooctane, 1 pg/μl</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	<b>GC/MS Checkout Sample, 10 ng/ul</b>	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
<b>Skin contact</b>	<b>Benzophenone in isooctane, 100 pg/μl</b>	Causes skin irritation.
	<b>OFN in Isooctane, 1 pg/μl</b>	Causes skin irritation.
	<b>GC/MS Checkout Sample, 10 ng/ul</b>	Causes skin irritation.
<b>Ingestion</b>	<b>Benzophenone in isooctane, 100 pg/μl</b>	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	<b>OFN in Isooctane, 1 pg/μl</b>	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	<b>GC/MS Checkout Sample, 10 ng/ul</b>	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

**Symptoms related to the physical, chemical and toxicological characteristics**

<b>Eye contact</b>	<b>Benzophenone in isooctane, 100 pg/μl</b>	Adverse symptoms may include the following: pain or irritation watering redness
	<b>OFN in Isooctane, 1 pg/μl</b>	Adverse symptoms may include the following: pain or irritation watering redness

## Section 11. Toxicological information

	GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:  pain or irritation watering redness
<b>Inhalation</b>	: Benzophenone in isooctane, 100 pg/μl	Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	OFN in Isooctane, 1 pg/μl	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:  nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
<b>Skin contact</b>	: Benzophenone in isooctane, 100 pg/μl	Adverse symptoms may include the following:  irritation redness
	OFN in Isooctane, 1 pg/μl	Adverse symptoms may include the following: irritation redness
	GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:  irritation redness
<b>Ingestion</b>	: Benzophenone in isooctane, 100 pg/μl	Adverse symptoms may include the following:  nausea or vomiting
	OFN in Isooctane, 1 pg/μl	Adverse symptoms may include the following: nausea or vomiting
	GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:  nausea or vomiting

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

## Section 11. Toxicological information

<b>General</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

N/A

<b>Other information</b>	: Benzophenone in isooctane, 100 pg/μl  OFN in Isooctane, 1 pg/μl  GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.  Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.  Adverse symptoms may include the following: Repeated exposure may cause skin dryness or cracking.
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## Section 12. Ecological information

### Toxicity

Not available.

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
<b>Benzophenone in isooctane, 100 pg/μl</b> 2,2,4-trimethylpentane	-	-	Inherent
<b>OFN in Isooctane, 1 pg/μl</b> 2,2,4-trimethylpentane	-	-	Inherent
<b>GC/MS Checkout Sample, 10 ng/ul</b> 2,2,4-trimethylpentane	-	-	Inherent

### Bioaccumulative potential



## Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Benzophenone in isooctane, 100 pg/µl</b> Benzophenone in isooctane, 100 pg/µl	4.5	-	High
2,2,4-trimethylpentane	4.08	231	Low
<b>OFN in Isooctane, 1 pg/µl</b> 2,2,4-trimethylpentane	4.08	231	Low
<b>GC/MS Checkout Sample, 10 ng/ul</b> 2,2,4-trimethylpentane	4.08	231	Low

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

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

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

**ADG / IMDG / IATA** : Not regulated as Dangerous Goods according to the ADG Code .

### Additional information

**Remarks:** De minimis quantities

**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.

**Transport in bulk according to IMO instruments** : Not available.

## Section 15. Regulatory information

### Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.

**New Zealand** : Not determined.

**United States** : Not determined.

## Section 16. Any other relevant information

### History

**Date of issue/Date of revision** : 22/04/2024

**Date of previous issue** : 15/07/2021

**Version** : 8

### Key to abbreviations

: ADG = Australian Dangerous Goods  
 : ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 : ATE = Acute Toxicity Estimate  
 : BCF = Bioconcentration Factor  
 : GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 : IATA = International Air Transport Association  
 : IBC = Intermediate Bulk Container  
 : IMDG = International Maritime Dangerous Goods  
 : LogPow = logarithm of the octanol/water partition coefficient  
 : MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 : N/A = Not available  
 : SUSMP = Standard Uniform Schedule of Medicine and Poisons  
 : UN = United Nations

### Procedure used to derive the classification

Classification	Justification
<b>Benzophenone in isooctane, 100 pg/µl</b> FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category	On basis of test data Calculation method Calculation method Expert judgment Calculation method Calculation method

**Section 16. Any other relevant information**

<p>1</p> <p><b>OFN in Isooctane, 1 pg/µl</b>  FLAMMABLE LIQUIDS - Category 2  SKIN CORROSION/IRRITATION - Category 2  SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  ASPIRATION HAZARD - Category 1  SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1</p> <p>1</p> <p><b>GC/MS Checkout Sample, 10 ng/ul</b>  FLAMMABLE LIQUIDS - Category 2  SKIN CORROSION/IRRITATION - Category 2  SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3  ASPIRATION HAZARD - Category 1  SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1</p> <p>1</p>	<p>On basis of test data  Calculation method  Calculation method</p> <p>Expert judgment  Calculation method  Calculation method</p> <p>On basis of test data  Calculation method  Calculation method</p> <p>Expert judgment  Calculation method  Calculation method</p>
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✔ Indicates information that has changed from previously issued version.

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