SAFETY DATA SHEET



1/26

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

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

Product name Part no. (chemical kit)	: GC - MS Multi-Component Checkout Samp : 5185-5840	
Part no.	 Benzophenone in isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul 	8500-5440-1 8500-5441-1 05970-60045-1
	es of the substance or mixture and uses advis	

Identified uses	: Reagents and Standards for Analytical Chemistry Laboratory l	
	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
Uses advised against	: None known.	

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA U	K Ltd.			
5500 Lakeside Cheadle Royal Business Park,				
Cheadle, Cheshire, SK8 3G	R			
United Kingdom				
Tel: +44 (0) 345 712 5292				
e-mail address of person responsible for this SDS	: pdl-msds_author@agilent.com			

1.4 Emergency telephone number

Emergency telephone : CHEMTREC®: +(44)-870-8200418 number (with hours of operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture				
Product definition	: Benzophenone in Mixture isooctane, 100 pg/µl			
	OFN in Isooctane, 1 pg/µl Mixture			
	GC/MS Checkout Mixture			
	Sample, 10 ng/ul			
Classification accordin	ig to Regulation (EC) No. 1272/2008 [CLP/GHS]			
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 HÁZARD	Category 1		
H400	SHORT-TERM (ACUTE) AQUATIC HAZARD	Category 1		
H410	LONG-TERM (CHRONIĆ) 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	Category 3		
	(Narcotic effects)			
Date of issue/Date of revision	: 22/04/2024 Date of previous issue : 15/07/2021	Version : 5		

SECTION 2: Hazards identification

H304	ASPIRATION HAZA	ARD	Category 1		
H400	SHORT-TERM (AC	UTE) AQUATIC HAZARD	Category 1		
H410	LONG-TERM (CHR	LONG-TERM (CHRONIC) AQUATIC HAZARD			
GC/MS Checkout					
Sample, 10 ng/ul					
H225	FLAMMABLE LIQU	IDS	Category 2		
H315	SKIN CORROSION	/IRRITATION	Category 2		
H336	SPECIFIC TARGET	ORGAN TOXICITY - SINGLE EXPOSURE	Category 3		
	(Narcotic effects)				
H304	ASPIRATION HAZA	ARD	Category 1		
H400	SHORT-TERM (AC	UTE) AQUATIC HAZARD	Category 1		
H410	LONG-TERM (CHR	ONIC) AQUATIC HAZARD	Category 1		
Βenzophenone in isooctane, 100 pg/μl		The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.			
OFN in Isooctane, 1 pg/µl		The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.			
GC/MS Checkout Sample, 10 ng/ul		The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.			

See Section 16 for the full text of the H statements declared above.

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

2.2 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 Danger isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl Danger GC/MS Checkout Danger Sample, 10 ng/ul **Hazard statements** : Benzophenone in H225 - Highly flammable liquid and vapour. isooctane, 100 pg/µl 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 H225 - Highly flammable liquid and vapour. Sample, 10 ng/ul 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.

SECTION 2: Hazards identification

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	P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
		GC/MS Checkout Sample, 10 ng/ul	P391 - Collect spillage.
		_	P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
Storage	1	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep
		GC/MS Checkout	container tightly closed. P403 + P233 - Store in a well-ventilated place. Keep
		Sample, 10 ng/ul	container tightly closed.
Disposal	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl	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.
		GC/MS Checkout Sample, 10 ng/ul	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	÷	Benzophenone in	2,2,4-trimethylpentane
		isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	2,2,4-trimethylpentane 2,2,4-trimethylpentane
Supplemental label elements	;	Benzophenone in isooctane, 100 pg/µl	Not applicable.
elements		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture,	;	Benzophenone in isooctane, 100 pg/µl	Not applicable.
placing on the market		OFN in Isooctane, 1 pg/µl	• •
and use of certain dangerous substances, mixtures and articles		GC/MS Checkout Sample, 10 ng/ul	Not applicable.
Special packaging require	m	<u>ents</u>	
Containers to be fitted	;	Benzophenone in	Not applicable.
with child-resistant fastenings		isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not applicable. Not applicable.
Tactile warning of danger	ł	Benzophenone in isooctane, 100 pg/µl	Not applicable.
		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not applicable. Not applicable.

SECTION 2: Hazards identification

2.3 Other hazards	
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	 ■ Enzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl This mixture does not contain any substances that are assessed to be a PBT or a vPvB. GC/MS Checkout Sample, 10 ng/ul This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	 Benzophenone in None known. isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl None known. GC/MS Checkout None known. Sample, 10 ng/ul

SECTION 3: Composition/information on ingredients

3.1 Substances	: Benzophenone in isooctane, 100 pg/ul	Mixture
	pg/μι OFN in Isooctane, 1 pg/μl GC/MS Checkout Sample, 10 ng/ul	Mixture Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
Benzophenone in isooctane, 100 pg/μl				
2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
OFN in Isooctane, 1 pg/µl 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
GC/MS Checkout Sample, 10 ng/				
ul 2,2,4-trimethylpentane	EC: 208-759-1 CAS: 540-84-1	≥90	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Туре

₿ enzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul [1] Substance classified with a health or environmental hazard [1] Substance classified with a health or environmental hazard

[1] Substance classified with a health or environmental hazard

4/26

SECTION 3: Composition/information on ingredients

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

SECTION 4: First aid measures

4.1 Description of first aid measures					
Eye contact :	Βenzophenone 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 GC/MS Checkout				
	Sample, 10 ng/ul	lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.			
Inhalation :	Βenzophenone 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/μΙ				
	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.			
Skin contact :	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 GC/MS Checkout Sample, 10 ng/ul	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. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at			
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SECTION 4: First aid measures

L		least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: B enzophenone in isooctane, 100 pg/μl	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/μ	
	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.
Protection of first-aiders	: B enzophenone 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/μ	I 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.

4.2 Most important symptoms and effects, both acute and delayed <u>Over-exposure signs/symptoms</u>

SECTION 4 :	First aid measures	

SECTION 4: First ald	ונ	neasures	
Eye contact	:	Benzophenone in isooctane, 100 pg/µl	Adverse symptoms may include the following:
			pain or irritation watering redness
		OFN in Isooctane, 1 pg/µl	Adverse symptoms may include the following: pain or irritation watering redness
		GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:
		_	pain or irritation watering redness
Inhalation	:	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
		GC/MS Checkout Sample, 10 ng/ul	unconsciousness Adverse symptoms may include the following:
			nausea or vomiting headache
			drowsiness/fatigue dizziness/vertigo unconsciousness
Skin contact	:	Benzophenone in isooctane, 100 pg/µl	Adverse symptoms may include the following: irritation
		OFN in Isooctane, 1 pg/µl	redness Adverse symptoms may include the following: irritation redness
		GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:
		_	irritation redness
Ingestion	:	Benzophenone in isooctane, 100 pg/µl	Adverse symptoms may include the following: 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
4.3 Indication of any immed	iat	o modical attention and s	
Notes to physician		Benzophenone in isooctane, 100 pg/µl	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist
		GC/MS Checkout Sample, 10 ng/ul	immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

7/26

SECTION 4: First aid measures

Specific treatments	: Benzophenone in No s isooctane, 100 pg/µl	pecific treatment.
	OFN in Isooctane, 1 pg/µl No s GC/MS Checkout No s Sample, 10 ng/ul	pecific treatment. pecific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	Benzophenone in Use dry chemical, CO ₂ , water spray (fog) of sooctane, 100 pg/µl	or foam.
	OFN in Isooctane, 1 pg/µl Use dry chemical, CO ₂ , water spray (fog) o GC/MS Checkout Use dry chemical, CO ₂ , water spray (fog) o Sample, 10 ng/ul	
Unsuitable extinguishing media	Benzophenone in Do not use water jet. isooctane, 100 pg/µl	
	OFN in Isooctane, 1 pg/μl Do not use water jet.	
	GC/MS Checkout Do not use water jet. Sample, 10 ng/ul	

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: 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/µ	Il 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.
Hazardous combustion products	: B enzophenone in isooctane, 100 pg/µl	Decomposition products may include the following materials:
		carbon dioxide carbon monoxide Il Decomposition products may include the following materials: carbon dioxide carbon monoxide
	GC/MS Checkout	Decomposition products may include the following materials:
Date of issue/Date of revision	: 22/04/2024 Date of previou	us issue : 15/07/2021 Version : 5 8/26

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SECTION 5: Firefighting measures

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	Sample, 10 ng/ul	carbon dioxide carbon monoxide
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: 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/µ	I 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.
	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.
Special protective equipment for fire- fighters	: 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/µ	
	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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures				
For non-emergency : personnel	: B enzophenone 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/į	I 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.		

9/26

Benzonhonono in	If specialised clothing is required to deal with the spillage,
isooctane, 100 pg/µl	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/µ	I f 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".
: 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/μ	
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.
r containment and cleanin	g up
: 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/µ	
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.
	OFN in Isooctane, 1 pg/µ GC/MS Checkout Sample, 10 ng/ul : Fenzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µ GC/MS Checkout Sample, 10 ng/ul r containment and cleanin : Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µ

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe har	ndling	
Protective measures	: 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	
	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.
Advice on general occupational hygiene	: β enzophenone 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 GC/MS Checkout Sample, 10 ng/ul	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. 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

SECTION 7: Handling and storage

for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage :	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
	OFN in Isooctane, 1 pg/μl	environmental contamination. See Section 10 for incompatible materials before handling or use. 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
	GC/MS Checkout Sample, 10 ng/ul	incompatible materials before handling or use. 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.

Seveso Directive - Reporting thresholds

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
Benzophenone in isooctane, 100 pg/µl		
P5c	5000 tonne	50000 tonne
E1	100 tonne	200 tonne
OFN in Isooctane, 1 pg/µl		
P5c	5000 tonne	50000 tonne
E1	100 tonne	200 tonne
GC/MS Checkout Sample, 10 ng/ul		
P5c	5000 tonne	50000 tonne
E1	100 tonne	200 tonne

7.3 Specific end use(s)

SECTION 7: Handling and storage

	J · · · · · J ·	
Recommendations	: Benzophenone in isooctane, 100 pg/µl	Industrial applications, Professional applications.
	OFN in Isooctane, 1 pg/µ GC/MS Checkout Sample, 10 ng/ul	I Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Benzophenone in isooctane, 100 pg/µl	Not available.
	OFN in Isooctane, 1 pg/µ	Not available.
	GC/MS Checkout Sample, 10 ng/ul	Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Benzophenone in isooctane, 100					
pg/µl					
2,2,4-trimethylpentane	DNEL	Long term	608 mg/m ³	General	Systemic
	DNEL	Inhalation	600 mg/kg	population	Sustamia
	DNEL	Long term Oral	699 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	699 mg/kg	General	Systemic
	DITE	Long toni Donna	bw/day	population	oyotonno
	DNEL	Long term Dermal	773 mg/kg	Workers	Systemic
			bw/day		
	DNEL	Long term	2035 mg/	Workers	Systemic
		Inhalation	m³		
OFN in Isooctane, 1 pg/µl					
2,2,4-trimethylpentane	DNEL	Long term	608 mg/m³	General	Systemic
z,z,timetrypentane	DINCE	Inhalation	000 mg/m	population	Oysternie
	DNEL	Long term Oral	699 mg/kg	General	Systemic
		Ũ	bw/day	population	5
	DNEL	Long term Dermal	699 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	773 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 2035 mg/	Workers	Systemic
	DINEL	Inhalation	2035 mg/ m ³	VVOIKEIS	Systemic
		Innalation			
GC/MS Checkout Sample, 10 ng/ul					
2,2,4-trimethylpentane	DNEL	Long term	608 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Oral	699 mg/kg	General	Systemic
			bw/day	population	Quatamia
	DNEL	Long term Dermal	699 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	773 mg/kg	Workers	Systemic
			bw/day		e jetonno
	DNEL	Long term	2035 mg/	Workers	Systemic
		Inhalation	m³		

SECTION 8: Exposure controls/personal protection

PNECs

No PNECs available

8.2 Exposure controls		
Appropriate engineering controls	:	Se 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.
Individual protection mea	<u>su</u>	<u>'es</u>
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	:	Fersonal 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 antistatic 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.
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.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physica	I and chemical properties
----------------------------------	---------------------------

<u>Appearance</u>			
Physical state	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Liquid. Liquid. Liquid.

SECTION 9: Physical and chemical properties

SECTION 9. Physica	ai	and chemical pro	
Colour	-	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl	Light
		GC/MS Checkout Sample, 10 ng/ul	Clear. / Colourless.
Odour	1	Benzophenone in isooctane, 100 pg/µl	Gasoline-like [Strong]
		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Gasoline-like
Odour threshold	1	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl	Not available. Not available.
		GC/MS Checkout Sample, 10 ng/ul	Not available.
Melting point/freezing point	1	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl	-107°C
		GC/MS Checkout Sample, 10 ng/ul	-107°C
Initial boiling point and boiling range	1	isooctane, 100 pg/µl	99.2°C
		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	99.2°C
Flammability	1	Benzophenone in isooctane, 100 pg/µl	Not applicable.
		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not applicable. Not applicable.
Upper/lower flammability or explosive limits	:	Benzophenone in isooctane, 100 pg/µl	Lower: 1.1% Upper: <=13%
		OFN in Isooctane, 1 pg/µl	Lower: 1.1% Upper: 6%
		GC/MS Checkout Sample, 10 ng/ul	Lower: 1.1% Upper: 6%
Flash point	:	enzophenone in isooctane, 100 pg/µl	Closed cup: -18 to 23°C [Based on solvent.]
		OFN in Isooctane, 1 pg/µl	Open cup: 4.5°C Closed cup: -18 to 23°C [Based on solvent.] Open cup: 4.5°C
		GC/MS Checkout Sample, 10 ng/ul	Closed cup: -18 to 23°C
Auto-ignition temperature	:	Benzophenone in isooctane, 100 pg/µl	Open cup: 4.5°C 418°C
		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	418°C 418°C
Decomposition temperature	1	Benzophenone in isooctane, 100 pg/µl	Not available.
		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not available. Not available.
рН	:	Benzophenone in isooctane, 100 pg/µl	Not available.
		OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Not available. Not available.

Viscosity	: Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul	Not available. g/µl Not available. Not available.	
Solubility(ies)	: Media	Re	sult
	Benzophenone in is water OFN in Isooctane, 1 water GC/MS Checkout Sa water	pg/µl Inso mple, 10 ng/ul	bluble bluble
Partition coefficient: n-		4.5	Juble
octanol/water	 Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul 		
Vapour pressure	 Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul 	5.5 kPa (41 mm Hg) g/µl 5.5 kPa (41 mm Hg) 5.5 kPa (41 mm Hg))
Evaporation rate	: Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul	3.6 (butyl acetate = g/μl Not available. Not available.	1)
Relative density	: Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul	Not available. g/µl 0.692 Not available.	
Vapour density	: Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul	>1 [Air = 1] g/µl 3.93 [Air = 1] 3.93 [Air = 1]	
Explosive properties	: Benzophenone in isooctane, 100 pg/µl	Not available.	
	OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul	Not available. Not available.	
Oxidising properties	: Benzophenone in isooctane, 100 pg/µl	Not available.	
	OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul	g/µl Not available. Not available.	
article characteristics	F	N () · · ·	
Median particle size	 Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 p GC/MS Checkout Sample, 10 ng/ul 	Not applicable. g/µl Not applicable. Not applicable.	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Benzophenone in No specific test data related to reactivity available for this
	isooctane, 100 pg/µl 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 No specific test data related to reactivity available for this
	Sample, 10 ng/ul product or its ingredients.
10.2 Chemical stability	: Benzophenone in The product is stable.
	isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl The product is stable.
	GC/MS Checkout The product is stable.
	Sample, 10 ng/ul
10.3 Possibility of	: Benzophenone in Under normal conditions of storage and use, hazardous
hazardous reactions	isooctane, 100 pg/µl 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 Under normal conditions of storage and use, hazardous
	Sample, 10 ng/ul reactions will not occur.
10.4 Conditions to avoid	: Benzophenone in Avoid all possible sources of ignition (spark or flame). Do no
	isooctane, 100 pg/µl 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/µI Avoid all possible sources of ignition (spark or flame). Do no 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 Avoid all possible sources of ignition (spark or flame). Do no Sample, 10 ng/ul 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.
10.5 Incompatible	: Benzophenone in Reactive or incompatible with the following materials:
materials	isooctane, 100 pg/µl oxidising materials
	OFN in Isooctane, 1 pg/ μ l Reactive or incompatible with the following materials:
	oxidising materials
	GC/MS Checkout Reactive or incompatible with the following materials: Sample, 10 ng/ul
	oxidising materials
10.6 Hazardous	: B enzophenone in Under normal conditions of storage and use, hazardous
decomposition products	isooctane, 100 pg/µl decomposition products should not be produced.
	OFN in Isooctane, 1 pg/µI Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	GC/MS CheckoutUnder normal conditions of storage and use, hazardousSample, 10 ng/uldecomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects Acute toxicity

SECTION 11: Toxicological information

SECTION 11: TOXICOIC		-		1
Product/ingredient name	Result	Species	Dose	Exposure
Benzophenone in isooctane, 100 pg/µl				
2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
OFN in Isooctane, 1 pg/µl				
2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
GC/MS Checkout Sample, 10 ng/ul				
2,2,4-trimethylpentane	LC50 Inhalation Vapour	Rat - Male, Female	>33.52 mg/l	4 hours
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-

Acute toxicity estimates

N/A	
Irritation/Corrosion	
Conclusion/Summary	: Not available.
<u>Sensitiser</u>	
Conclusion/Summary	: 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)

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

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

SECTION 11: Toxicological information

SECTION 11: Toxic	olo	ogical information		
Produc	ct/in	gredient name		Result
Benzophenone in isooctane, 100 pg/μl Benzophenone in isooctane, 100 pg/μl 2,2,4-trimethylpentane			ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
OFN in Isooctane, 1 pg/μl OFN in Isooctane, 1 pg/μl 2,2,4-trimethylpentane				ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
GC/MS Checkout Sample, GC/MS Checkout Sample, 2,2,4-trimethylpentane				ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Information on likely routes of exposure	routes of exposure isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl Routes of		Routes of	entry anticipated: Oral, Dermal, Inhalation, Eyes. entry anticipated: Oral, Dermal, Inhalation, Eyes. entry anticipated: Oral, Dermal, Inhalation, Eyes.
Potential acute health effe	ects	2		
Inhalation	:	Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	cause drow Can cause cause drow Can cause	central nervous system (CNS) depression. May vsiness or dizziness. central nervous system (CNS) depression. May vsiness or dizziness. central nervous system (CNS) depression. May vsiness or dizziness.
Ingestion	:	GC/MS Checkout	be fatal if s Can cause be fatal if s Can cause	central nervous system (CNS) depression. May wallowed and enters airways. central nervous system (CNS) depression. May wallowed and enters airways. central nervous system (CNS) depression. May
Skin contact	:	Sample, 10 ng/ul Benzophenone in isooctane, 100 pg/µl OFN in Isooctane, 1 pg/µl GC/MS Checkout Sample, 10 ng/ul	Causes sk Causes sk	wallowed and enters airways. in irritation. in irritation. in irritation.
Eye contact	:	Benzophenone in isooctane, 100 pg/µl	No known	significant effects or critical hazards. significant effects or critical hazards. significant effects or critical hazards.
Symptoms related to the	phy	sical, chemical and toxic	ological ch	aracteristics
Inhalation	:	Benzophenone in	Adverse sy	mptoms may include the following:
		isooctane, 100 pg/μl OFN in Isooctane, 1 pg/μl	nausea or	s/fatigue rertigo usness /mptoms may include the following:
		GC/MS Checkout Sample, 10 ng/ul	headache drowsiness dizziness/v unconscion Adverse sy	s/fatigue rertigo usness rmptoms may include the following:
			nausea or headache drowsiness dizziness/v unconsciou	s/fatigue vertigo

SECTION 11: Toxicological information

SECTION 11: TOXIC	2010	•	
Ingestion	:	Benzophenone in isooctane, 100 pg/µl	Adverse symptoms may include the following:
			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
Skin contact	:	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
Eye contact	- :	Benzophenone in isooctane, 100 pg/µl	Adverse symptoms may include the following:
			pain or irritation watering
			redness
		OFN in Isooctane, 1 pg/µl	Adverse symptoms may include the following:
			pain or irritation watering
			redness
		GC/MS Checkout Sample, 10 ng/ul	Adverse symptoms may include the following:
			pain or irritation watering redness
Delayed and immediate	effec	ts as well as chronic effe	cts from short and long-term exposure
Short term exposure			
		Not available	
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	effe	<u>cts</u>	
Conclusion/Summary	:	Not available.	
General		Benzophenone in	No known significant effects or critical hazards.
oonorui		isooctane, 100 pg/µl	
			No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	:	Benzophenone in isooctane, 100 pg/µl	No known significant effects or critical hazards.
			No known significant effects or critical hazards.
		GC/MS Checkout Sample, 10 ng/ul	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Mutagenicity	: B enzophenone in No known signification isooctane, 100 pg/µl	ant effects or critical hazards.
	OFN in Isooctane, 1 pg/µl No known significa GC/MS Checkout No known significa Sample, 10 ng/ul	ant effects or critical hazards. ant effects or critical hazards.
Reproductive toxicity	: B enzophenone in No known signification isooctane, 100 pg/µl	ant effects or critical hazards.
	OFN in Isooctane, 1 pg/µl No known significa GC/MS Checkout No known significa Sample, 10 ng/ul	ant effects or critical hazards. ant effects or critical hazards.
Other information	isooctane, 100 pg/µl exposure may ca OFN in Isooctane, 1 pg/µl Adverse sympton	ns may include the following: Repeated use skin dryness or cracking. ns may include the following: Repeated use skin dryness or cracking.
	GC/MS Checkout Adverse sympton	ns may include the following: Repeated use skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

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

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

Date of issue/Date of revision	: 22/04/2024	Date of previous issue	: 15/07/2021	Vers
Date of 1350e/Date of Tevision	. 22/04/2024	Dute of previous issue	. 10/01/2021	V CI 3

SECTION 12: Ecological information

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

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

SECTION 13: Disposal considerations

13.1 Waste treatment meth	ods
Product	
Methods of disposal	: 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: 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

	ADR/RID	IMDG	IATA
14.1 UN number	UN1262	UN1262	UN1262
14.2 UN proper shipping name	OCTANES solution	OCTANES solution	Octanes solution
14.3 Transport hazard class(es)	3		3
14.4 Packing group	II	11	11
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

Remarks: De minimis quantities

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$. Hazard identification number 33 Limited quantity 1 L Tunnel code (D/E)

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg. Emergency schedules F-E, S-E

SECTION 14: Transport information

	-
ΙΑΤΑ	 The environmentally hazardous substance mark may appear if required by other transportation regulations. <u>Quantity limitation</u> Passenger and Cargo Aircraft: 5 L. Packaging instructions: 353. Cargo Aircraft Only: 60 L. Packaging instructions: 364. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y341.
14.6 Special precautions for user	: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in bulk according to IMO instruments	: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name		Identifiers		Status
Benzophenone in isoocta	ane, 100 pg/µl			
Benzophenone in isooctan	e, 100 pg/µl	-		3
OFN in Isooctane, 1 pg/μ	I			
OFN in Isooctane, 1 pg/µl		-		3
GC/MS Checkout Sample	. 10 na/ul			
GC/MS Checkout Sample,		-		3
Label	: Benzophenone	in isooctane,	Not applicable	ð.
	100 pg/µl OFN in Isoocta GC/MS Checko		Not applicable Not applicable	

Seveso Directive

This product is controlled under the Seveso Directive.

ng/ul

Danger criteria

SECTION 15: Regulatory information

Category

Benzophenone in isooctane, 100 pg/µl P5c E1

OFN in Isooctane, 1 pg/µI P5c E1

GC/MS Checkout Sample, 10 ng/ul P5c E1

EU regulations	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments might still be required.
International regulations	
Chemical Weapon Conven	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol Not listed.	
Stockholm Convention on	Persistent Organic Pollutants
Not listed.	
Rotterdam Convention on Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol o	n POPs and Hoavy Motals
Not listed.	
Inventory list	. Net determined
United States	: Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	Abbreviations and acronyms	 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement N/A = Not available PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative
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Procedure used to derive the classification

SECTION 16: Other information

Classification	Justification
Benzophenone in isooctane, 100 pg/µl	
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Expert judgment
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method
OFN in Isooctane, 1 pg/µl	
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Expert judgment
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method
GC/MS Checkout Sample, 10 ng/ul	
Flam. Liq. 2, H225	On basis of test data
Skin Irrit. 2, H315	Calculation method
STOT SE 3, H336	Calculation method
Asp. Tox. 1, H304	Expert judgment
Aquatic Acute 1, H400	Calculation method
Aquatic Chronic 1, H410	Calculation method

Full text of abbreviated H 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.
H400	Very toxic to aquatic life.
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.
H400	Very toxic to aquatic life.
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Full text of class	ifications

Full text of classifications

SECTION 16: Other information

SECTION 16: Other Information		
Benzophenone in isooctane, 100 pg/µl		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
OFN in Isooctane, 1		
pg/µl		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
GC/MS Checkout		
Sample, 10 ng/ul		
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2	
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3	
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Notice to reader

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