

Product	CYCLACET			
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name IFF Code Cust. Material MSDS Number Product Use Description	: : : :	CYCLACET 00037480 00037480 R00000218581 Fragrance Ingredient
Company	:	IFF (GREAT BRITAIN) LTD. DUDDERY HILL HAVERHILL SuffolkCB9 8LG +441440715000
Telefax	:	+441440762199
Emergency telephone number	:	+44 1440 7 15000

SECTION 2 HAZARDS IDENTIFICATION

OSHA Hazards

: Mild skin irritant Mild eye irritant

Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component	CAS-No.
4,7-Methano-1H-indenol, 3a,4,5,6,7,7a-hexahydro-, acetate, 4,7- Methano-1H-indenol, 3a,4,5,6,7,7a-hexahydro-, acetate; Tricyclo[5.2.1.02,6]dec-3-enyl acetate, 4,7-Methano-1H-indenol, 3a,4,5,6,7,7a-hexahydro-, acetate; Tricyclo[5.2.1.02,6]dec-3-enyl acetate, Tricyclo[5.2.1.02,6]dec-3-enyl acetate	54830-99-8

SECTION 4. FIRST AID MEASURES

First aid procedures

Inhalation	:	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
Skin contact	:	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
Eye contact	:	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
Ingestion	:	Rinse mouth with water and obtain medical advice.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point

: 232 °F (111 °C) at 1,013.00 hPa (1,013 hPa)

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Fire fighting

Suitable extinguishing media	:	Use water spray, dry chemical, carbon dioxide or appropriate foam.
Protective equipment and precauti	ons	for firefighters
Special protective equipment for firefighters	:	Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use

water spray to cool containers exposed to fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.
Environmental precautions	:	Keep away from drains, surface- and groundwater and soil.
Methods for containment / Methods for cleaning up	:	Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

SECTION 7. HANDLING AND STORAGE

Handling: Avoid excessive inhalation of concentrated vapors. Follow good
manufacturing practices for housekeeping and personal hygiene.
Wash any exposed skin immediately after any chemical contact,
before breaks and meals, and at the end of each work period.
Contaminated clothing and shoes should be thoroughly cleaned
before re-use.

If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual

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		chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees. Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.
Advice on protection against fire and explosion	:	Keep away from ignition sources and naked flame.
Requirements for storage areas and containers	:	Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures	
Engineering measures	: Where feasible, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. Where feasible, use closed systems to transfer and process this material
Personal protective equipment	
Eye protection	: Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.
Hand protection	: Avoid skin contact. Use chemically resistant gloves.
Respiratory protection	: Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures.

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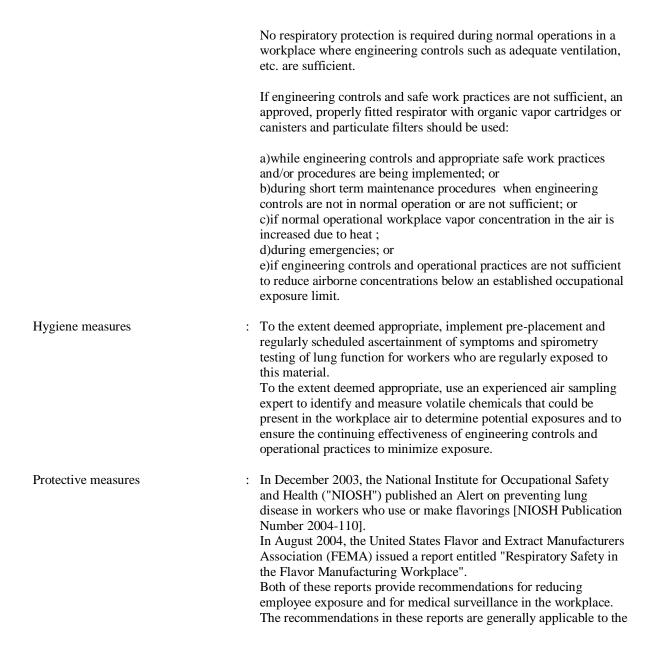
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use of any chemical in the workplace and you are strongly urged to review both of these reports.

The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration $\geq 1.0\%$ due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

: liquid at 68 °F (20 °C) (1,013.00 hPa (1,013 hPa))
: colorless
: conforms to standard
: 232 °F (111 °C) at 1,013 hPa (1,013 hPa)
: >752 °F (> 400 °C) at 1,013.00 hPa (1,013 hPa) Method: Tested according to Annex V of Directive 67/548/EEC.
: 476.24 °F (246.80 °C) at 1,013.00 hPa (1,013 hPa) Note: Calculated
: .02 hPa (0.02116 hPa) at 73 °F (23 °C)
: 1.0735 Method: ISO 279

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Water solubility	:	0.186 g/l at 73 °F (23 °C) Method: Purge & Trap
Partition coefficient: n-octanol/water	:	log Pow: 3.900
Viscosity, dynamic	:	10.17 mPa.s at 68 °F (20 °C) Method: OECD 114

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	:	Remarks: Direct sources of heat.
Chemical stability	:	Remarks: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.
Hazardous decomposition products	:	Note: Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Component)	:	Component: 54830-99-8 LD50 rat Dose: 2,750 mg/kg Method: OECD Test Guideline 401 Remarks: IFF
Acute dermal toxicity (Component)	:	Component: 54830-99-8 LD50 rat Dose: > 5,000 mg/kg Method: OECD Test Guideline 402

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Skin irritation (Component)	 Component: 54830-99-8 rabbit Result: No skin irritation Method: OECD Test Guideline 404 Exposure time: 4 h 	
Eye irritation(Component)	: Component: 54830-99-8 rabbit Result: No eye irritation Method: OECD Test Guideline 405	
Sensitisation (Component)	: Component: 54830-99-8 maximisation study guinea pig Result: Did not cause sensitization on laboratory animal Method: OECD Test Guideline 406	s.
Repeated dose toxicity(Component)	 Component: 54830-99-8 Oralrat Number of exposures: 1x /day NOEL: 1,000 mg/kg Method: OECD Test Guideline 407 	

SECTION 12. ECOLOGICAL INFORMATION

Component: 54830-99-8	VERDYL ACETATE	<u>Toxicity to fish:</u> flow-through test LC50 Species: Danio rerio (zebra fish)
		Dose: 15.8 mg/l Exposure time: 96 h Method: Directive 67/548/EEC, Annex V, C.1.
		<u>Toxicity to daphnia and other aquatic invertebrates:</u> static test EC50 Species: Daphnia magna (Water flea)

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Dose: 25 mg/l

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Exposure time: 48 h Method: OECD Test Guideline 202

<u>Toxicity to algae:</u> static testEC50 Species: Desmodesmus subspicatus (green algae) Dose: 25 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

SECTION 13. DISPOSAL CONSIDERATIONS

Contaminated packaging : Place material into sealed containers and dispose of in accordance with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

OSHA Hazards SARA 311/312 Hazards		Mild skin irritant, Mild eye irritant Acute Health Hazard
Reportable Quantity	:	
HMIS Classification	:	Health hazard: 1 Flammability: 1 Physical and chemical hazards: 0

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SECTION 16. OTHER INFORMATION

Further information

The information in this MSDS was obtained from current and reliable sources. However the data is provided without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond IFF control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.

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