

Product KOAVONE

Print Date

17.04.2015

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
Product name	:	KOAVONE	
IFF Code	:	00110502	
Cust. Material	:	00110502	
MSDS Number	:	R00000225388	
Use of the Substance/Mixture	:	Ingredient used in Flavour and/or Fragrance preparations	
Company	:	IFF (GREAT BRITAIN) LTD. DUDDERY HILL	
		HAVERHILL	
		SuffolkCB9 8LG	
Telephone	:	+441440715000	
Emergency telephone number	:	+44 1440 7 15000	

2. HAZARDS IDENTIFICATION

GHS-Classification

Skin sensitisation, Sub-category 1B Acute aquatic toxicity, Category 2 Chronic aquatic toxicity, Category 2

GHS-Labelling

Symbol(s)	
Signal word	: Warning
Hazard statements	: H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.
Precautionary statements	 P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P272: Contaminated work clothing should not be allowed out of the workplace. P273: Avoid release to the environment. P280: Wear protective gloves. P302 + P352: IF ON SKIN: Wash with plenty of soap and water. P321: Specific treatment (see supplemental first aid instructions on this label). P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention. P363: Wash contaminated clothing before reuse. P391: Collect spillage. P501: Dispose of contents/ container to an approved waste disposal
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plant.

3. COMPOSITION/INFORMAT	ION ON INGREDIENTS
Chemical characterization	: aliphatic ketones
Molecular weight CAS-No.	: 182.3 g/mol : 81786-73-4, 81786-74-5, 81786-75-6, 86115-11-9
CA5-110.	. 61760-75-4, 61760-74-5, 61760-75-0, 60115-11-7
4. FIRST AID MEASURES	
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.
5. FIREFIGHTING MEASURES	5
Suitable extinguishing media	: Carbondioxide, dry chemical, foam.
6. ACCIDENTAL RELEASE ME	CASURES
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 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.
7. HANDLING AND STORAGE	
Handling	
Advice on safe 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 chemicals from tanks or other containers, especially when steam or
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Advice on protection against a explosion	fire and :	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. Keep away from ignition sources and naked flame.
Storage		
Requirements for storage area containers	is and :	Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Verify if the substances declared in section 3 have relevant national exposure limits.

Personal protective equipment

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. No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient. If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used: a)while engineering controls and appropriate safe work practices and/or procedures are being implemented; or b)during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or c)if normal operational workplace vapor concentration in the air is increased due to heat ; d)during emergencies; or e)if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.
Hygiene measures	 To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material. To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be
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9. PHYSICAL AND CHEMICAL PROPERTIES

SAFETY DATA SHEET INTERNATIONAL FLAVORS & FRAGRANCES

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	present in the workplace air to determine potential exposure ensure the continuing effectiveness of engineering controls operational practices to minimize exposure.	
Protective measures	 In December 2003, the National Institute for Occupational S and Health ("NIOSH") published an Alert on preventing lum disease in workers who use or make flavorings [NIOSH Pub Number 2004-110]. In August 2004, the United States Flavor and Extract Manu Association (FEMA) issued a report entitled "Respiratory St the Flavor Manufacturing Workplace". Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the work The recommendations in these reports are generally applical use of any chemical in the workplace and you are strongly u review both of these reports. The report published by FEMA also contains a list of "high chemicals. If any of these chemicals are present in this prod concentration >= 1.0% due to an intentional addition by IFF chemical(s) will be identified in this safety data sheet. 	ng plication facturers afety in g splace. ble to the urged to priority'' uct at a

Appearance Physical state : liquid : colorless to pale yellow Colour Odour : conforms to standard Safety data Flash point 86 °C : >100 °C Ignition temperature : Vapour pressure : 0.02 hPa Note: Calculated Partition coefficient: n-: log Pow: 3.735 octanol/water **10. STABILITY AND REACTIVITY** Conditions to avoid : Remarks: Direct sources of heat. Hazardous decomposition products : Note: Carbon monoxide and unidentified organic compounds may be formed during combustion. Hazardous reactions : Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents. Version : 3 **Revision Date** : 19.01.2015 Telephone: +441440715000 Telefax: +441440762199



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11. TOXICOLOGICAL INI	FORMATION	
Acute oral toxicity Acute dermal toxicity Eye irritation Sensitisation	 LD50 (Rat) = 6,100 mg/kg LD50 (Rat) = 2,400 mg/kg LD50 (Rabbit) = > 5,000 mg/kg Mild eye irritation (, Rabbit, 24 h, (undilute Did not cause sensitisation on labora ,human, 15% in ethanol) 	
12. ECOLOGICAL INFOR	MATION	
Ecotoxicity effects		
13. DISPOSAL CONSIDER	RATIONS	
Product	: Disposal together with normal waste is not required according to local regulations.	allowed. Special disposal
Contaminated packaging	: Empty containers should be taken to an app for recycling or disposal.	proved waste handling site
14. TRANSPORT INFORM	ATION	
IATA UN number Description of the goods Labels Packing group IMDG_GLOBAL UN number Description of the goods	 3082 Environmentally hazardous substance, liqui (3,4,5,6,6-pentamethylhept-3-en-2-one) 9 III 3082 ENVIRONMENTALLY HAZARDOUS S 	
Labels Packing group Marine pollutant	N.O.S. (3,4,5,6,6-pentamethylhept-3-en-2-one) 9 III yes	
15. REGULATORY INFOR	PMATION	
Labelling according to EC D Symbol(s) R-phrase(s)	rectives67/548/EEC : Xi Irritant N Dangerous for the environment : R43 May cause sensitisation by skin co R51/53 Toxic to aquatic organisms, may c	
Version	effects in the aquatic environment.	ause long-term auverse

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S-phrase(s)	 S24 Avoid contact with skin. S37 Wear suitable gloves. S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets. 		
HMIS Classification	: Health hazard: 1 Flammability: 2 Physical and chemical hazards: 0		

16. OTHER INFORMATION

Further information

The information in this safety data sheet is based on the properties of the material known to IFF at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances under which it is packaged, stored or applied in the workplace. For such a safety assessment International Flavors & Fragrances holds no responsibility. This document is not intended for quality assurance purposes.