

Product	HELIONAL
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1. Identification of the sub	bstance/mixture and of the company/undertaking
1.1 Product identifier	
Trade name	: HELIONAL
MSDS Number	: R00000223804
1.2 Relevant identified uses of the s	ubstance or mixture and uses advised against
Use of the Substance/Mixture	: Ingredient used in Flavour and/or Fragrance preparations
1.3 Details of the supplier of the safe	ety data sheet
Company	: IFF Benicarló, S.L.
	Avda. Felipe Klein 2
	12580 BENICARLÓ
Telephone	: +34964470212
Telefax	: +34964473411
E-mail address	: sds@iff.com
Responsible/issuing person	
1.4 Emergency telephone number	
+34 964 470 212	

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Sub-category 1B Chronic aquatic toxicity, Category 2 H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		*
Signal word	: `	Warning	
Hazard statements		H317 H411	May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.
Precautionary statements		Prevention: P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/

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	P273 P280	spray. Avoid release to the environment. Wear protective gloves.
	Response: P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage.

Hazardous components which must be listed on the label:

• 1205-17-0 #-methyl-1,3-benzodioxole-5-propionaldehyde

2.3 Other hazards

None reasonably foreseeable.

3. Composition/information on ingredients

3.1 Substances

Chemical name of the substanc	e : #-methyl-1,3-benzodioxole-5-propionaldehyde
Chemical characterization	: aromatic aldehydes
Molecular weight	: 192,20 g/mol
CAS-No.	: 1205-17-0
EINECS-No.	: 214-881-6
Hazardous components	

Chemical Name	CAS-No. EC-No.	GHS Classification	Concentration [%]
#-methyl-1,3-benzodioxole-5- propionaldehyde	1205-17-0 214-881-6	Skin Sens.1B; H317 Aquatic Chronic2; H411	50 - 100

For the full text of the R-phrases mentioned in this Section, see Section 16.

3.2 Mixtures

Not applicable, product is a substance.

4. First aid measures

4.1 Description of first aid measures

General advice

: Take Risk and Safety phrases (section 15) into account.



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If inhaled	: Remove from exposure site to fresh air and keep a medical advice.	ıt rest. Obtain
In case of skin contact	: Remove contaminated clothes. Wash thoroughly v soap). Contact physician if symptoms persist.	with water (and
In case of eye contact	: Flush immediately with water for at least 15 minu physician if symptoms persist.	tes. Contact
If swallowed	: Rinse mouth with water and obtain medical advice	г.
4.2 Most important symptoms a	d effects, both acute and delayed	
Symptoms	: No information available.	
Risks	: No information available.	
4.3 Indication of any immediate	nedical attention and special treatment needed	
Treatment	: No information available.	
5. Firefighting measure	s	
5.1 Extinguishing media		
Suitable extinguishing media	: Carbondioxide, dry chemical, foam.	
Unsuitable extinguishing me	ia : Do not use a direct waterjet on burning material.	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during firefighting 5.3 Advice for firefighters	: Water may be ineffective.	
Further information	: Standard procedure for chemical fires.	
6. Accidental release m	easures	
6.1 Personal precautions, protec	ive equipment and emergency procedures	
Personal precautions	: Avoid inhalation and contact with skin and eyes. A breathing apparatus is recommended in case of a r	
6.2 Environmental precautions		
Environmental precautions	: Keep away from drains, surface- and groundwater	and soil.
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6.3 Methods and materials for containment and cleaning up

ai	Clean up spillage promptly. Remove ignition sources. Provide dequate ventilation. Avoid excessive inhalation of vapours. Gross pillages should be contained by use of sand or inert powder and isposed of according to the local regulations.
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6.4 Reference to other sections

Prevent spreading over a wide area (e.g. by containment or oil barriers).

7.1 Precautions for safe 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 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.
7.2 Conditions for safe storage, inclu	ding any incompatibilities
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.
7.3 Specific end use(s)	
Specific use(s)	: No information available.

8. Exposure controls/personal protection

8.1 Control parameters



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Contains no substances with occupational exposure limit values. 8.2 Exposure controls

Engineering measures

Where appropriate, use closed systems to transfer and process this material. If appropriate, 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.

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.
Hand protection	: Avoid skin contact. Use chemically resistant gloves.
Eye protection	: Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.
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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Environmental exposure con General advice	 present in the workplace air to determine p ensure the continuing effectiveness of engi operational practices to minimize exposure trols Keep away from drains, surface- and ground 	ineering controls and e.
9. Physical and chemica	properties	
9.1 Information on basic physical	and chemical properties	
Appearance	: liquid	
Colour Odour Odour Threshold Flash point Lower explosion limit Upper explosion limit Flammability (solid, gas) Oxidizing properties Auto-ignition temperature pH Melting point Boiling point Vapour pressure	 colorless to pale yellow conforms to standard not determined 100 °C not determined soft determined 	
Density Water solubility Partition coefficient: n- octanol/water Solubility in other solvents Viscosity, dynamic Viscosity, kinematic Relative vapour density Evaporation rate 9.2 Other information	 not determined not determined log Pow: 1,368 not determined 	
Refractive index Relative density 10. Stability and reactivi	: not determined : 1,1590 - 1,1670	

10.1 Reactivity

No hazards to be specially mentioned.



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10.2 Chemical stability		
Stable under normal cond	itions.	
10.3 Possibility of hazardous	reactions	
Hazardous reactions	: Note: Presents no significant react with water. Avoid contact with stra agents.	
10.4 Conditions to avoid		
Conditions to avoid	: Direct sources of heat.	
10.5 Incompatible materials		
Materials to avoid	: Avoid contact with strong acids, a	lkali or oxidizing agents.
10.6 Hazardous decompositio	n products	
Hazardous decomposition products		d organic compounds may be
11. Toxicological info	ormation	
11.1 Information on toxicolog	ical effects	
Acute toxicity		
Acute oral toxicity	: LD50: 3.600 mg/kg Species: Rat Remarks: IFF	
Acute dermal toxicity	: LD50: > 2.000 mg/kg Species: Rabbit	
Skin corrosion/irritation		
Skin irritation Skin irritation	 No information available. Species: human Result: No skin irritation Method: repeated insult patch test 	
Serious eye damage/eye	irritation	
No information available. Respiratory or skin sens	itisation	
No information available. Sensitisation	: Species: human	
Sensitisation	: Species: human	

: 11.5



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	Result: Did not cause sensitisation on laboratory as Test substance: 20% in ethanol	nimals.
Germ cell mutagenicity		
No information available. Carcinogenicity		
No information available. Reproductive toxicity		
No information available. Target Organ Systemic T	'oxicant - Single exposure	
No information available. Target Organ Systemic T	oxicant - Repeated exposure	
No information available. Aspiration hazard		
No information available.		
12. Ecological inform	ation	
12.1 Toxicity		
Toxicity to daphnia and oth aquatic invertebrates	her : EC50: 8,3 mg/l Exposure time: 48 h	
M-Factor alpha-methyl-1,3-benzodio 5-propionaldehyde	oxole- : 1	
12.2 Persistence and degradab	ility	
No information available.		
Biodegradability	 Result: Not readily biodegradable. 24 % Method: Directive 67/548/EEC Annex V, C.4.B. 	
	: Result: Inherently biodegradable. 66 %	
12.3 Bioaccumulative potentia	1	
No information available. 12.4 Mobility in soil		

12.5 Results of PBT and vPvB assessment



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This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

vPvB substance

12.6 Other adverse effects

No information available.

13. Disposal considerations		
13.1 Waste treatment methods		
Product	: Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment.	
Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.	

14. Transport information

1 5	
ADR	
UN number	: 3082
Description of the goods	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(A-METHYL-3,4-METHYLENEDIOXYHYDRO CINNAMIC
	ALDEHYDE)
Labels	: 9
Packing group	: III
Environmentally hazardous	: yes
IATA	
UN number	: 3082
Description of the goods	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(A-METHYL-3,4-METHYLENEDIOXYHYDRO CINNAMIC
	ALDEHYDE)
Labels	: 9
Packing group	: III
Environmentally hazardous	: yes
IMDG	
UN number	: 3082
Description of the goods	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(A-METHYL-3,4-METHYLENEDIOXYHYDRO CINNAMIC
	ALDEHYDE)
Labels	: 9
Packing group	: III
Marine pollutant	: yes

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Special precautions for : No special precautions required. user

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water contaminating class : WGK 2water endangering (Germany)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Further information

In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110]. In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".

Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the 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.

According to Regulation (EC) No. 1907/2006 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.