

Product	VANDOR B BH7

Print Date 07.08.2013

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

: VANDOR B BHT

1.2 Relevant identified uses of the substance 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 safety data sheet

Company	: IFF (GREAT BRITAIN) LTD.
	DUDDERY HILL
	CB9 8LG HAVERHILL
Telephone	: +441440715000
Telefax	: +441440762199
E-mail address	: sds@iff.com
Responsible/issuing person	

1.4 Emergency telephone number

+44 1440 7 15000

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3H226: Flammable liquid and vapour.Skin irritation, Category 2H315: Causes skin irritation.

Classification (67/548/EEC, 1999/45/EC)

Flammable	R10: Flammable.
Irritant	R38: Irritating to

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms:Image: Constraint of the second se

Version Revision Date : 3.1 : 22.07.2013 skin.



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Precautionary statements	: Prevention:	
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	P233	Keep container tightly closed.
	Response:	
	P303 + P361 + P35	53 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
	Storage: P403 + P235 Disposal:	Store in a well-ventilated place. Keep cool.
	P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

None reasonably foreseeable.

3. Composition/information on ingredients

3.1 Substances

Chemical name of the substance	: 3,5,5-trimethylhexanal
Chemical characterization	: aliphatic aldehydes
Molecular formula	: C9H18O
Molecular Weight	: 142,10 g/mol
CAS-No.	: 5435-64-3
EINECS-No.	: 226-603-0

Hazardous components

Chemical Name	CAS-No. EC-No.	Classification	GHS Classification	Concentration [%]
3,5,5-trimethylhexanal	5435-64-3 226-603-0	R10 Xi; R38	Skin Irrit.2; H315 Flam. Liq.3; H226	50 - 100
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	N; R50/53	Aquatic Chronic1; H410	0 - 0,25

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

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3.2 Mixtures

Not applicable, product is a substance.

Description of first aid measures	
General advice	: Take Risk and Safety phrases (section 15) into account.
If inhaled	: Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
In case of skin contact	: Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
In case of eye contact	: Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
If swallowed	: Rinse mouth with water and obtain medical advice.
2 Most important symptoms and e	ffects, both acute and delayed
Symptoms	: No information available.
Risks	: No information available.
B Indication of any immediate med	ical attention and special treatment needed
Treatment	: No information available.
. Firefighting measures	
Extinguishing media	
Suitable extinguishing media	: Carbondioxide, dry chemical, foam.
Unsuitable extinguishing media	: Do not use a direct waterjet on burning material.
2 Special hazards arising from the	substance or mixture
Specific hazards during firefighting 3 Advice for firefighters	: Water may be ineffective.
Advice for firefighters	



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6. Accidental release n	<i>leasures</i> ctive equipment and emergency procedures
Personal precautions	 Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.
6.2 Environmental precautions	
Environmental precautions	: Keep away from drains, surface- and groundwater and soil.
6.3 Methods and materials for o	containment and cleaning up
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.
6.4 Reference to other sections	
Prevent spreading over a wi	de area (e.g. by containment or oil barriers).
7. Handling and storag	ge
7.1 Precautions for safe handlin	g
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 agains fire and explosion	t : Keep away from ignition sources and naked flame.
7.2 Conditions for safe storage,	including any incompatibilities
Requirements for storage are and containers	eas : Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.



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7.3 Specific end uses Specific use(s)	: No information available.		

8. Exposure controls/personal protection

8.1 Control parameters

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.



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Hygiene measures Environmental exposure	 To the extent deemed appropriate, implement pre-pregularly scheduled ascertainment of symptoms and testing of lung function for workers who are regular this material. To the extent deemed appropriate, use an experience expert to identify and measure volatile chemicals th present in the workplace air to determine potential ensure the continuing effectiveness of engineering coperational practices to minimize exposure. 	l spirome ly expose ed air sar at could l exposures	etry ed to npling be s and to

General advice

: Keep away from drains, surface- and groundwater and soil.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: colorless
Odour	: conforms to standard
Odour Threshold	: not determined
Flash point	: 47 °C
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: not determined
Oxidizing properties	: not determined
Autoignition temperature	: not determined
pН	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 1,07 hPa Calculated
Density	not determined
Water solubility	: not determined
Partition coefficient: n-	: log Pow: 3,050
octanol/water	
Solubility in other solvents	: not determined
Viscosity, dynamic	: not determined
Viscosity, kinematic	: not determined
Relative vapour density	: not determined
Evaporation rate	: not determined
9.2 Other information	
Refractive index	: not determined
Relative density	: 0,8210
2	



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10. Stability and reacti	vity	
10.1 Reactivity		
No hazards to be specially n	nentioned.	
10.2 Chemical stability		
Stable under normal condition	ons.	
10.3 Possibility of hazardous rea	actions	
Hazardous reactions	: Note: Presents no significant reactivity hazard with water. Avoid contact with strong acids, a 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, alkali or oxid	dizing agents.
10.6 Hazardous decomposition	products	
Hazardous decomposition products	: Carbon monoxide and unidentified organic co formed during combustion.	ompounds may be

11.1 Information on toxicological effects

Acute toxicity	
Acute oral toxicity	: LD50: 3.240 mg/kg Species: rat Remarks: RIFM
Acute dermal toxicity	: LD50: > 2.500 mg/kg Species: rabbit
Skin corrosion/irritation	
Skin irritation Skin irritation	 No information available. Species: human Result: No skin irritation Method: closed patch test Exposure time: 48 h
	: Species: rabbit



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	Result: Skin irritation Exposure time: 24 h	
Serious eye damage/eye	irritation	
No information available. Eye irritation	: Species: rabbit Result: Moderate eye irritation	
Respiratory or skin sens	itization	
No information available. Sensitisation	 maximisation study Species: human Result: Did not cause sensitization on laborator Test substance: 4.0% in petrolatum 	y animals.
Germ cell mutagenicity		
No information available. Carcinogenicity		
No information available. Reproductive toxicity		
No information available. Target Organ Systemic	Toxicant - Single exposure	
No information available. Target Organ Systemic	Toxicant - Repeated exposure	
No information available. Aspiration hazard		
No information available.		
12. Ecological inform	nation	
12.1 Toxicity		
12.2 Persistence and degrada	·	
No information available. 12.3 Bioaccumulative potenti		
No information available. 12.4 Mobility in soil		
12.5 Results of PBT and vPv	3 assessment	
12.6 Other adverse effects		

No information available.



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13. Disposal considerations 13.1 Waste treatment methods		
Product	: Dispose of according to local re	egulations. Avoid disposing into

Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.
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drainage systems and into the environment.

14. Transport information

ADR		
UN number	:	1993
Description of the goods	:	FLAMMABLE LIQUID, N.O.S.
		(3,5,5-TRIMETHYHEXANAL)
Labels	:	3
Packing group	:	III
Environmentally hazardous	:	no
IATA		
UN number	:	1993
Description of the goods	:	FLAMMABLE LIQUID, N.O.S.
		(3,5,5-TRIMETHYHEXANAL)
Labels	:	3
Packing group	:	III
Environmentally hazardous	:	no
IMDG		
UN number	:	1993
Description of the goods	:	FLAMMABLE LIQUID, N.O.S.
		(3,5,5-TRIMETHYHEXANAL)
Labels	:	3
Packing group	:	III
Marine pollutant	:	no
-		
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

Labelling — EU Directives	67/	548/EEC	or 1999/45/EC—
Symbol(s)	:	Xi	Irritant
R-phrase(s)	:	R10 R38	Flammable. Irritating to skin.



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S-phrase(s) :	S37 Wear suitable gloves.		
Water contaminating class : WGK 1 slightly water 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 R-phrases referred to under sections 2 and 3		
R10	Flammable.	
R38	Irritating to skin.	
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	

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

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H410	Very 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.