



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 1 (11)

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

1.1 Product identifier

Trade name : HYACINTH BODY 3 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)

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting effects.

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

Dangerous for the environment R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 2 (11)

2.3 Other hazards

None reasonably foreseeable.

3. Composition/information on ingredients

3.1 Substances

Chemical name of the substance : [2-(1-propoxyethoxy)ethyl]benzene
Chemical characterization : aliphatic aldehydes
Molecular formula : C₁₃H₂₀O₂
Molecular Weight : 208,30 g/mol
CAS-No. : 7493-57-4
EINECS-No. : 231-327-9

Hazardous components

Chemical Name	CAS-No. EC-No.	Classification	GHS Classification	Concentration [%]
[2-(1-propoxyethoxy)ethyl]benzene	7493-57-4 231-327-9	R52/53	Aquatic Chronic3; H412	50 - 100
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	N; R50/53	Aquatic Chronic1; H410 Aquatic Acute1; H400	0 - 0,25

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.

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.

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 3 (11)

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbondioxide, dry chemical, foam.

Unsuitable extinguishing media : Do not use a direct waterjet on burning material.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Water may be ineffective.

5.3 Advice for firefighters

Further information : Standard procedure for chemical fires.

6. Accidental release measures

6.1 Personal precautions, protective 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 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 wide area (e.g. by containment or oil barriers).

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 4 (11)

7. Handling and storage

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, including 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 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

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 5 (11)

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 present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.

Environmental exposure controls

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

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 6 (11)

Appearance : liquid
Colour : colorless
Odour : conforms to standard
Odour Threshold : not determined
Flash point : 96 °C
Lower explosion limit : not determined
Upper explosion limit : not determined
Flammability (solid, gas) : not determined
Oxidizing properties : not determined
Autoignition temperature : not determined
pH : not determined
Melting point : not determined
Boiling point : not determined
Vapour pressure : 0,01 hPa Calculated

Density : not determined
Water solubility : not determined
Partition coefficient: n-
octanol/water : log Pow: 3,464
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 : 0,9450 - 0,9510

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Note: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : Direct sources of heat.

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 7 (11)

10.5 Incompatible materials

Materials to avoid : Avoid contact with strong acids, alkali or oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide and unidentified organic compounds may be formed during combustion.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : LD50: 5.000 mg/kg
Species: rat

Skin corrosion/irritation

Skin irritation : No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No information available.

Sensitisation : Test substance: 0.0%

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 information

12.1 Toxicity

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 8 (11)

Toxicity to daphnia and other aquatic invertebrates : EC50: 15,6 mg/l
Exposure time: 48 h

12.2 Persistence and degradability

No information available.

Biodegradability : Result: Not readily biodegradable.
56 %
Method: Directive 67/548/EEC Annex V, C.4.C.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

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

ADR

Not dangerous goods

Environmentally hazardous : no

IATA

Not dangerous goods

IMDG

Not dangerous goods

Special precautions for user : No special precautions required.

15. Regulatory information

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

Version : 3.2
Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 9 (11)

Labelling — EU Directives 67/548/EEC or 1999/45/EC—

R-phrase(s) : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

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 R-phrases referred to under sections 2 and 3

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful 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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful 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.

Version : 3.2

Revision Date : 30.04.2014



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 10 (11)

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.

Version : 3.2
Revision Date : 30.04.2014



ANNEX

INTERNATIONAL FLAVORS & FRAGRANCES

Product HYACINTH BODY 3 BHT

Print Date 06.06.2014

Page 11 (11)

INDEX

Version : 3.2
Revision Date : 30.04.2014