

Product ORANGE FLOWER ETHER 00202929

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : ORANGE FLOWER ETHER 00202929

Cust. Material : ORANGLOWETHE

Use of the Substance/Preparation : Ingredient used in Flavour and/or Fragrance preparations

Company : IFF Benicarló, S.A.

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2. HAZARDS IDENTIFICATION

Potential environmental effect : When spilled, can contaminate soil, ground- and surface water.

Risk advice to man and the environment

Additional Info : Not a hazardous substance or preparation according to EC-directives

67/548/EEC or 1999/45/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name of the substance : 4-(1-methoxy-1-methylethyl)-1-methylcyclohexene

Chemical characterization : aliphatic ethers Molecular formula : C11H20O Molecular Weight : 168,20 g/mol CAS-No. : 14576-08-0 EINECS-No. : 238-620-0

4. FIRST AID MEASURES

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

Inhalation : Remove from exposure site to fresh air and keep at rest. Obtain

medical advice.

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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. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbondioxide, dry chemical, foam.

Extinguishing media which shall not be used for safety reasons

Do not use a direct waterjet on burning material.

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 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 hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be

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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.

Storage

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures

Advice 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

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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.

Protective measures : 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid

Colour : colorless

Odour : Conforms to Standard

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Safety data

Flash point : 82,22 °C

Vapour pressure : 0,0079871 hPa

Note: Calculated

Relative density (20 °C) : 0,8960 - 0,9040

10. STABILITY AND REACTIVITY

Hazardous decomposition

products

Carbon monoxide and unidentified organic compounds may be

formed during combustion.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 (rat) = > 5.000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

13. DISPOSAL CONSIDERATIONS

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

IATA

Not dangerous goods

IMDG

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Not dangerous goods

15. REGULATORY INFORMATION

Labelling according to EC Directives

Additional Info : Not a hazardous substance or preparation according to EC-directives

67/548/EEC or 1999/45/EC.

Sensitising components : limonene

May produce an allergic reaction.

Water contaminating class

(Germany)

WGK 2 water endangering

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10 Flammable. R38 Irritating to skin.

R43 May cause sensitization by skin contact.

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

aquatic environment.

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.

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