



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product CASSIFFIX (ELINCS)

Print Date 08.05.2015

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

Product name : CASSIFFIX (ELINCS)
IFF Code : 00032037
Cust. Material : 00032037
MSDS Number : R00000215913

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

Company : IFF Benicarló, S.L.
Avda. Felipe Klein 2
12580 BENICARLÓ


Telephone : +34964470212
Emergency telephone number : +34 964 470 212

2. HAZARDS IDENTIFICATION

GHS-Classification

Skin corrosion/irritation, Category 2
Serious eye damage/eye irritation, Category 2A
Chronic aquatic toxicity, Category 2

GHS-Labeling

Symbol(s) : 

Signal word : Warning

Hazard statements : H315: Causes skin irritation.
H319: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements : P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/ eye protection/ face protection.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321: Specific treatment (see supplemental first aid instructions on this label).
P332 + P313: If skin irritation occurs: Get medical advice/ attention.
P337 + P313: If eye irritation persists: Get medical advice/ attention.
P362: Take off contaminated clothing and wash before reuse.
P391: Collect spillage.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : alicyclic ethers
Molecular formula : C₁₆H₂₆O
Molecular weight : 234.20 g/mol
CAS-No. : 139539-67-6, 139539-66-5, 426218-78-2

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

Suitable extinguishing media : Carbondioxide, dry chemical, foam.

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 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.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Personal protective equipment

- 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 to pale yellow
Odour : conforms to standard

Safety data

- Flash point : 145 °C
Ignition temperature : 240 °C
at 1,013 hPa (1,013 hPa)
Flammability (solid, gas) : The product is not flammable.

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Oxidizing properties : The substance or mixture is not classified as oxidizing.

Auto-ignition temperature : 240 °C
at 1,013 hPa
Auto-ignition temperature

Melting point : -25.00 °C
at 1,013 hPa
Method: OECD Test Guideline 102

Boiling point : 301.5 °C
at 1,013 hPa
Method: OECD Test Guideline 103

Water solubility : 0.0111 g/l
at 20 °C
Method: OECD Test Guideline 105

Partition coefficient: n-
octanol/water : log Pow: 4
at 25 °C Method: OECD Test Guideline 107

Surface tension : 54.7 mN/m
at 20 °C
Method: OECD 115

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.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 (Rat) = > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rat) = > 2,000 mg/kg

Skin irritation : Skin irritation (OECD Test Guideline 404, Rabbit)

Eye irritation : Eye irritation (OECD Test Guideline 405, Rabbit)

Sensitisation : Does not cause skin sensitisation. (OECD Test Guideline 406 ,Guinea pig)

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Not readily biodegradable. (3 %, 28 d, Directive 67/548/EEC Annex V, C.4.D.)

Ecotoxicity effects

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Toxicity to fish : LC50(96 h,) = 3.8 mg/l (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates : EC50(48 h,) = 1.3 mg/l (OECD Test Guideline 202)
Toxicity to algae : ErC50(72 h,) = 13 mg/l (OECD Test Guideline 201)

13. DISPOSAL CONSIDERATIONS

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

IATA

UN number : 3082
Description of the goods : Environmentally hazardous substance, liquid, n.o.s.
(TRIMETHYLCYCLOPENTENYLMETHYLOXABICYCLOOCTANE)
Labels : 9
Packing group : III

IMDG GLOBAL

UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(TRIMETHYLCYCLOPENTENYLMETHYLOXABICYCLOOCTANE)
Labels : 9
Packing group : III
Marine pollutant : yes

15. REGULATORY INFORMATION

Labelling according to EC Directives 67/548/EEC

Symbol(s) : Xi Irritant
N Dangerous for the environment

R-phrases : R36/38 Irritating to eyes and skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.
S37 Wear suitable gloves.

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HMIS Classification : Health hazard: 1
Flammability: 1
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.

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