

Product OPERANIDE (ELINCS)

Print Date 06.11.2023 Page 1 (6)

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

IPC # : 00151575

IPC Description : OPERANIDE (ELINCS)

SDS Number : R00000003503

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

Long-term (chronic) aquatic hazard, Category 2

GHS-Labelling

Symbol(s) :

Hazard statements : H411: Toxic to aquatic life with long lasting effects.

Precautionary statements : P391: Collect spillage.

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

plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : alicyclic acetals
Molecular formula : C17 H28 O2
Molecular weight : 264.00 g/mol
CAS-No. : 823178-41-2

4. FIRST AID MEASURES

Inhalation : Remove from exposure site to fresh air and keep at rest. If victim is

unconscious, remove foreign bodies from the mouth. If victim has stopped breathing, give artificial respiration. Obtain medical advice.

Skin contact : Remove contaminated clothes. Wash thoroughly with water (and

Version : 6

Revision Date : 03.05.2023



Product OPERANIDE (ELINCS)

Print Date 06.11.2023 Page 2 (6)

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.

Workplace facilities required : 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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbondioxide, dry chemical, foam.

Special protective equipment for

firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

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 restricted to properly trained employees.

Version : 6

Revision Date : 03.05.2023

Telephone: +34964470212 Telefax: +34964473411



Product **OPERANIDE (ELINCS)**

Print Date 06.11.2023 Page 3 (6)

> Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.

explosion

Advice on protection against fire and : 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

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

Appropriate engineering controls

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.

Version : 6

Revision Date : 03.05.2023

> Telephone: +34964470212 Telefax: +34964473411



Product OPERANIDE (ELINCS)

Print Date 06.11.2023 Page 4 (6)

Eye/face protection : Use tight-fitting goggles, face shield or safety glasses with side

shields if eye contact might occur.

Skin and body protection : Choose body protection in relation to its type, to the concentration

and amount of dangerous substances, and to the specific work-place.

Protective 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid

Colour : pale yellow to yellow-green

Odour : conforms to standard

Safety data

Flash point : 123 °C

Boiling point : 280.00 °C

Vapour pressure : 0.01 hPa

Note: Calculated

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.

Presents no significant reactivity hazard, by itself or in contact with

water.

11. TOXICOLOGICAL INFORMATION

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

Version : 6

Revision Date : 03.05.2023



Product OPERANIDE (ELINCS)

Print Date 06.11.2023 Page 5 (6)

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

Skin irritation : No skin irritation (repeated insult patch test, human, 5.0% in diethyl

phthalate)

Mild skin irritation (, Rabbit) Mild eye irritation (, Rabbit)

Eye irritation : Mild eye irritation (, Rabbit)
Sensitisation : Did not cause sensitisation on laboratory animals. (

,Mouse)

Did not cause sensitisation on laboratory animals. (

human, 5.0% in DEP:Ethanol (3:1))

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Biodegradability : Not readily biodegradable. (2 %)

Ecotoxicity effects

Toxicity to fish : LC50(96 h,) = > 1.360 mg/lToxicity to daphnia and other : EC50(48 h,) = > 1.500 mg/l

aquatic invertebrates

Toxicity to algae : EbC50(72 h,) = > 1.600 mg/l

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.

(Indeno dioxole, hexahydro heptamethyl-)

Labels : 9 Packing group : III

IMDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S

(Indeno dioxole, hexahydro heptamethyl-)

Labels : 9 Packing group : III

Marine pollutant : yes (Indeno dioxole, hexahydro heptamethyl-)

Version : 6

Revision Date : 03.05.2023

Telephone: +34964470212 Telefax: +34964473411



Product OPERANIDE (ELINCS)

Print Date 06.11.2023 Page 6 (6)

15. REGULATORY INFORMATION

Additional Info : In accordance with EC directives or respective national laws, the

product does not need to be classified nor labelled.

HMIS Classification : Health hazard: 1

Chronic Health Hazard: /

Flammability: 1

Physical and chemical hazards: 0

16. OTHER INFORMATION

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 >= 1.0% due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

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 : 6

Revision Date : 03.05.2023

Telephone: +34964470212 Telefax: +34964473411