

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product Name : FLUXO 5  
UFI : 1310-70UA-S002-S3UQ

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Product for NON DESTRUCTIVE TESTING - Reserved for professional users

### 1.3. Details of the supplier of the safety data sheet

SOFRANEL  
59 Rue Parmentier  
78500 Sartrouville  
Tél : +33 (0)1 39 13 82 36  
Fax : +33 (0)1 39 13 19 42  
e-mail : info@sofranel.com www.sofranel.com

### 1.4. Emergency telephone number

FRANCE = INRS / ORFILA <http://www.centres-antipoison.net>. **+33 (0)1 45 42 59 59**

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Flammable liquid, Category 2 (Flam. Liq. 2, H225).  
Repeated exposure may cause skin dryness or cracking (EUH066).  
Eye irritation, Category 2 (Eye Irrit. 2, H319).  
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).  
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

### 2.2. Label elements

#### Hazard pictograms :



#### Signal word(s)

DANGER

#### Hazard statements

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/ ...  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P501 Dispose of contents/container in accordance with local / national / international regulations.

#### Precautionary statements -

#### Prevention :

#### Precautionary statements -

#### Response

#### Precautionary statements -

#### Disposal :

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>  
The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.  
The mixture does not contain components considered to have endocrine disrupting properties under Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

| Identification                                                                | (CE) 1272/2008                                                                                | Nota | %               |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------|-----------------|
| CAS: 78-93-3<br>EC: 201-159-0<br>REACH : 01-2119457290-43-xxxx<br><br>BUTANON | GHS02, GHS07<br>Dgr<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336<br>EUH:066 |      | 70 <= x % < 100 |

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

#### In the event of exposure by inhalation :

In the event of massive inhalation of dust, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

#### In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

#### In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

#### In the event of swallowing :

Seek medical attention, showing the label.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

Keep packages cool when in the vicinity of flames.

Suitable methods of extinction

Prevent the effluent of fire-fighting measures from entering drains or waterways.

### 5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO2)

### 5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

Avoid inhaling dust.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

**6.3. Methods and material for containment and cleaning up**

Retrieve the product by mechanical means (sweeping/vacuuming).

**6.4. Reference to other sections**

No data available.

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

**Fire prevention :**

Handle in well-ventilated areas.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged: always ground when decanting. Wear antistatic shoes and clothing and make floors of non-conductive

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid eye contact with this mixture.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities****Storage**

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

**Packaging**

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

Product for NON DESTRUCTIVE TESTING

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

BUTANON

VME = 600mg/m<sup>3</sup>

### 8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

#### Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

AX

Particle filter according to standard EN143 :

P1 (White)

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

|                               |                  |
|-------------------------------|------------------|
| Physical state                | Liquid           |
| Colour                        | Colorless liquid |
| Density                       | 0.81             |
| Boiling point / boiling range | 80°C             |
| Autoignition Temperature      | > 230°C          |
| Flash point                   | < 0°C            |

Version 4

Date

01/05/2025

Page

5/8

Explosion hazards, lower explosion limit (%):

1.0%

Explosion hazards, upper explosion limit (%):

11.56%

## 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No data available.

**9.2.2. Other safety characteristics** No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating
- heat
- formation of dusts

Dusts can form an explosive mixture with air.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :  
carbon monoxide (CO)  
carbon dioxide (CO<sub>2</sub>)

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

#### 11.1.1. Substances

| BUTANON                     |                                           |
|-----------------------------|-------------------------------------------|
| Acute Toxicity – oral       | DL <sub>50</sub> > 2000mg/kg – rat        |
| Acute Toxicity – dermal     | DL <sub>50</sub> > 5000mg/kg – rat        |
| Acute Toxicity – inhalation | CL <sub>50</sub> = 34mg/kg (vapour) – rat |

### 11.2. Information on other hazards

No toxicological data available for the mixture.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.2. Mixtures

| BUTANON                                                                    |  |
|----------------------------------------------------------------------------|--|
| LL <sub>50</sub> - 96h = > 1000mg/l, <i>Oncorhynchus mykiss</i> - OECD 203 |  |
| EL <sub>50</sub> - 48h = > 1000mg/l, <i>Daphnia magna</i> - OECD 202       |  |

### 12.2. Persistence and degradability

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Endocrine disrupting properties**

No data available.

**12.7. Other adverse effects**

No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number or ID number**

1193

**14.2. UN proper shipping name**

UN1193 = ÉTHYLMÉTHYLCÉTONE (MÉTHYLÉTHYLCÉTONE)

**14.3. Transport hazard class(es)**



3

**14.4. Packing group**

II

**14.5. Environmental hazards**

No

**14.6. Special precautions for user**

| ADR/RID | Classe | Code  | Groupe | Etiquette | Ident. | QL     | Dispo. | EQ                   | Cat.       | Tunnel |
|---------|--------|-------|--------|-----------|--------|--------|--------|----------------------|------------|--------|
|         | 3      | F1    | II     | 3         | 33     | 1 L    | -      | E2                   | 2          | D/E    |
| IMDG    | Classe | 2°Etq | Groupe | QL        | FS     | Dispo. | EQ     | Arrimage manutention | Séparation |        |

|      |        |        |        |          |          |       |       |            |    |
|------|--------|--------|--------|----------|----------|-------|-------|------------|----|
|      | 3      | -      | II     | 1 L      | F-E. S-D | -     | E2    | Category E | -  |
| IATA | Classe | 2°Etq. | Groupe | Passager | Passager | Cargo | Cargo | note       | EQ |
|      | 3      | -      | II     | 353      | 5 L      | 364   | 60 L  | -          | E2 |
|      | 3      | -      | II     | Y341     | 1 L      | -     | -     | -          | E2 |

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No

## **SECTION 15: REGULATORY INFORMATION**

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

#### **Classification and labelling information included in section 2:**

The following regulations have been used:

EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)

EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

#### **Container information:**

No data available.

#### **Particular provisions:**

No data available.

### **15.2. Chemical safety assessment**

No data available.

## **SECTION 16: OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on our regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties.

#### **Wording of the phrases mentioned in section 3:**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

#### **Abbreviations:**

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic. vPvB : Very persistent, very bioaccumulable.

SVHC : Substance of Very High Concern.