# SAFETY DATA SHEET

# BRAN ABS LMR

| Version | Revision Date: | SDS Number: | Date of last issue: - |
|---|---|---|---|
| 1.0 | 2025/06/26 | 300000771128 | Date of first issue: 2025/06/26 |

## Section 1: Identification

Product name : BRAN ABS LMR

Sales Number : 00023157

**Manufacturer or supplier's details**

Company : IFF LMR Naturals
Parc Industriel Les Bois de Grasse

Address : 18-20 avenue Joseph Honoré Isnard
Grasse 06 06130

Telephone : +33492424344

Emergency telephone number : +33 3 8073 7878

**Recommended use of the chemical and restrictions on use**

Recommended use : Fragrance Compound

## Section 2: Hazard identification

**GHS Classification**

Not a hazardous substance or mixture.

**GHS label elements**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

**Other hazards which do not result in classification**

None known.

## Section 3: Composition/information on ingredients

Substance / Mixture : Substance

Chemical nature : Fragrance for consumer product

**Components**

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---|---|
| ethanol | 64-17-5 | >= 1 -< 10 |

## Section 4: First-aid measures

| | | |
|---|---|---|
| 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. |
| Most important symptoms and effects, both acute and delayed | : | None known. |

## Section 5: Fire-fighting measures

| | | |
|---|---|---|
| Suitable extinguishing media | : | Carbondioxide, dry chemical, foam. |
| Unsuitable extinguishing media | : | Do not use a direct waterjet on burning material. |
| Specific hazards during fire-fighting | : | Water may be ineffective. |
| Specific extinguishing methods | : | Standard procedure for chemical fires. |
| Special protective equipment for firefighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

## Section 6: Accidental release measures

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | 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 and materials for containment and 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. |

## Section 7: Handling and storage

Advice on protection against fire and explosion : Keep away from ignition sources and naked flame.

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.

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.

Conditions for safe storage : Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

## Section 8: Exposure controls/personal protection

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| ethanol | 64-17-5 | WES-TWA | 200 ppm<br>380 mg/m3 | NZ OEL |
| | Further information: Ototoxin | | | |
| | | WES-STEL | 800 ppm<br>1.520 mg/m3 | NZ OEL |
| | Further information: Ototoxin | | | |

| | | | | |
|---|---|---|---|---|
| | | STEL | 1.000 ppm | ACGIH |

**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 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

Remarks : 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.

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 : 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.

## Section 9: Physical and chemical properties

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | brown |
| Odour | : | conforms to standard |
| Odour Threshold | : | not determined |
| Melting point | : | not determined |
| Boiling point | : | not determined |
| Flash point | : | 100,00 °C<br>Method: closed cup |
| Evaporation rate | : | not determined |
| Upper explosion limit / Upper flammability limit | : | not determined |
| Lower explosion limit / Lower flammability limit | : | not determined |
| Vapour pressure | : | 0,13 hPa (20 °C)<br>Calculated |
| Relative density | : | not determined |
| Density | : | not determined |
| Water solubility | : | not determined |
| Solubility in other solvents | : | not determined |
| Partition coefficient: n-octanol/water | : | not determined |
| Auto-ignition temperature | : | not determined |
| Decomposition temperature | : | not determined |
| pH | : | not determined |
| Viscosity, dynamic | : | not determined |
| Viscosity, kinematic | : | not determined |

| | | |
|---|---|---|
| Oxidizing properties | : | not determined |
| Molecular weight | : | not determined |
| Particle size | : | not determined |

## Section 10: Stability and reactivity

| | | |
|---|---|---|
| Reactivity | : | No hazards to be specially mentioned. |
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | Presents no significant reactivity hazard, by itself or in contact with water. |
| Conditions to avoid | : | Direct sources of heat. |
| Incompatible materials | : | Avoid contact with strong acids, alkali or oxidizing agents. |
| Hazardous decomposition products | : | Carbon monoxide and unidentified organic compounds may be formed during combustion. |

## Section 11: Toxicological information

**Acute toxicity**

Not classified based on available information.

**Components:**

**ethanol:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat, male and female): 10.470 mg/kg<br>Method: OECD Test Guideline 401<br>GLP: no<br>Remarks: REACH data |
| Acute inhalation toxicity | : | LC50 (Rat, male and female): 124,7 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour<br>Method: OECD Test Guideline 403<br>GLP: no<br>Remarks: REACH data |
| Acute dermal toxicity | : | LD50 (Rabbit): > 20.000 mg/kg |

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**ethanol:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Assessment | : | No skin irritation |

| | | |
|---|---|---|
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |
| GLP | : | yes |
| Remarks | : | REACH data |

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:**

**ethanol:**

| | | |
|---|---|---|
| Species | : | Rabbit |
| Result | : | Irritation to eyes, reversing within 21 days |
| Assessment | : | Causes serious eye irritation. |
| Method | : | OECD Test Guideline 405 |
| GLP | : | no |
| Remarks | : | REACH data |

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**ethanol:**

| | | |
|---|---|---|
| Test Type | : | maximisation study |
| Species | : | Guinea pig |
| Assessment | : | Does not cause skin sensitisation. |
| Method | : | OECD Test Guideline 406 |
| Result | : | negative |
| GLP | : | no |
| Remarks | : | Based on data from similar materials |

**Chronic toxicity**

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks : There is no data available for this product. The health hazards are assessed based on the ingredients in this preparation and their concentrations.

## Section 12: Ecological information

**Ecotoxicity**

**Components:**

**ethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 15.300 mg/l
Exposure time: 96 h
Test Type: flow-through test
Analytical monitoring: yes
GLP: no
Remarks: REACH data

NOEC (Danio rerio (zebra fish)): 250 mg/l
Exposure time: 120 h
Test Type: semi-static test
Analytical monitoring: yes
Method: OECD Test Guideline 212
GLP: no
Remarks: REACH data

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
GLP: no
Remarks: REACH data

Toxicity to algae/aquatic plants : EC10 (Chlorella vulgaris (Fresh water algae)): 11,5 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: no
Remarks: REACH data

EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no

Method: OECD Test Guideline 201
GLP: no
Remarks: REACH data

EC100 (Chlorella vulgaris (Fresh water algae)): 14.200 mg/l
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: no
Remarks: REACH data

**Persistence and degradability**

**Components:**

**ethanol:**

Biodegradability : aerobic
Inoculum: activated sludge, non-adapted
Concentration: 10 mg/l
Biochemical oxygen demand
Result: Readily biodegradable.
Biodegradation: 95 %
Testing period: 5 d
Exposure time: 15 d
Kinetic:
5 d: 76 %
10 d: 82 %
20 d: 96 %
GLP: no
Remarks: REACH data

**Bioaccumulative potential**

**Components:**

**ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0,35 (20 °C)
Method: OECD Test Guideline 117
GLP: no
Remarks: REACH data

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological information : Avoid contamination of soil, ground and surface water.

## Section 13: Disposal considerations

**Disposal methods**

| | | |
|---|---|---|
| Waste from residues | : | 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. |

## Section 14: Transport information

**International Regulations**

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Class | : | Not applicable |
| Subsidiary risk | : | Not applicable |
| Packing group | : | Not applicable |
| Labels | : | Not applicable |
| Packing instruction (cargo aircraft) | : | Not applicable |
| Packing instruction (passenger aircraft) | : | Not applicable |

**IMDG-Code**

| | | |
|---|---|---|
| UN number | : | Not applicable |
| Proper shipping name | : | Not applicable |
| Class | : | Not applicable |
| Subsidiary risk | : | Not applicable |
| Packing group | : | Not applicable |
| Labels | : | Not applicable |
| EmS Code | : | Not applicable |
| Marine pollutant | : | Not applicable |

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

**Special precautions for user**

| | | |
|---|---|---|
| Remarks | : | Not classified as dangerous in the meaning of transport regulations. |

## Section 15: Regulatory information

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

**HSNO Approval Number**

Not applicable

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

**HSW Controls**

Certified handler certificate not required.
Tracking hazardous substance not required.
Refer to the Health and Safety at Work (Hazardous Substances) Regulations 2017, for further information.

## Section 16: Other information

| | | |
|---|---|---|
| Revision Date | : | 2025/06/26 |

**Further information**

| | | |
|---|---|---|
| Other information | : | The information in this safety data sheet is based on the properties of the material known to us 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 we hold no responsibility. This document is not intended for quality assurance purposes. |
| Date format | : | dd.mm.yyyy |

**Full text of other abbreviations**

| | | |
|---|---|---|
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| NZ OEL | : | New Zealand. Workplace Exposure Standards for Atmospheric Contaminants |
| ACGIH / STEL | : | Short-term exposure limit |
| NZ OEL / WES-TWA | : | Workplace Exposure Standard - Time Weighted average |
| NZ OEL / WES-STEL | : | Workplace Exposure Standard - Short-Term Exposure Limit |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule;

ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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