

# Safety Data Sheet

according to Regulation (EC) No 2015/830



prepared: 14.06.2016  
revised: 06.02.2018  
Valid from: 06.02.2018  
8

replaces version: 8

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

Trade name/designation: **NARA SPRAY-MEAT Flavour**

Other means of identification: -

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

Relevant identifies uses:-

plague surveillance\*

Uses advised against:-

### 1.3 Details of the suppliers of this safety data sheet

Futura GmbH Vertriebsgesellschaft

#### Address

Rudolf-Diesel-Strasse 35

#### Post Code /Country

D-33178 Borchen

#### Contact

Fon: +49 (0) 5251/ 69161-79

Mail: info@futura-shop.de

### 1.4 Emergency telephone number

+49 (0) 5251/ 69161-79

## Section 2: Hazard Identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:

H222 Flam. Aerosol 1

H229

### 2.2 Label elements

#### Labeling according to Regulation (EC) No 1272/2008

The product is classified and labeled according to the CLP Regulation

Hazard pictogram:



GHS02

Signal word: hazard

Hazard Statements:

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H222 : Extremely flammable aerosol  
H229 Pressurised container: May burst if heated.

### Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
P211: Do not spray on an open flame or other ignition source.  
P251: Pressurized container: Do not pierce or burn, even after use.  
P260: Do not breathe dust/fume/gas/mist/vapours/spray.  
P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 oC/122oF.

### Additional labeling

Shake well before use. Store and process at room temperature.  
Restricted to professional users.

## 2.3 Other hazards:

none

## Section 3: Composition / information on ingredients

Chemical characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions

n- Butan	15-30%	CAS No: EINECS: REACH classification No: CLP Classification:	106-97-8 203-448-7 Annex V H220 Flam. Gas 1
Propan	5-15 %	CAS No: EINECS: REACH classification No: CLP Classification:	74-98-6 200-827-9 Annex V H220 Flam. Gas 1

(For the full text of the risk phrases refer to Section 16)

## Section 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

In Case of serious or permanent disorder, seek medical advice asap

#### Following inhalation:

Sit upright, take to the fresh air, look calm and get to the hospital immediately

#### Following skin contact:

Rinse first with plenty of water, then if necessary seek medical attention

#### Following eye contact:

First flush eyes several minutes under running water with the eyelid wide open, (remove contact linses if this is easily possible), afterwards seek medical advice.

#### Following ingestion:

Rinse mouth, do not induce vomiting and get to the hospital immediately

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

**Skin contact:** none

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**Eye contact:** eye redness  
**ingestion:** Diarrhea, headache, abdominal cramps, fatigue, vomiting  
**inhalation:** none

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

No relevant information available

### Section 5: Firefighting measures

#### 5.1 Extinguishing media:

CO<sub>2</sub>, powder, foam or water spray.

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

none

#### 5.3 Advice for fire fighters

Extinguished media to be avoided: none

### Section 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not walk on spilled substances or touch and avoid inhalation of fumes, smoke, dust and vapors by staying on the windward side. Take off contaminated clothing and used contaminated protective equipment and dispose of safely

#### 6.2 Environmental precautions

Do not discharge into the subsoil / soil

#### 6.3 Methods and material for containment and cleaning up

Absorb with absorbent material

#### 6.4 Reference to other sections

For further information see section 8 and 13

### Section 7: Handling and storage

#### 7.1 Protective measure

Treat gently to avoid spillage

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-closed container in a closed, frost-free and ventilated room

#### 7.3 Specific end uses

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## Section 8: Exposure controls / personal protection

### 8.1 Control parameters

The following is a list of hazardous components listed in section 3, of which the TLV Value is known

<b>n – Butan (&lt;0,01% Butadien -1,3)</b>	
	1,928 mg/m <sup>3</sup>
<b>Propan</b>	
	1800mg/m <sup>3</sup>

### 8.2 Exposure control

#### Respiratory protection:

Unnecessary

For exposure with irritation risk use gas masks of type ABEK. Possibly use with adequate exhaust ventilation.

#### Hand protection:

Use with Nitrile gloves. Penetration time of glove material > 480 min / 0,35mm thickness according to EN 347

Control gloves before use precisely. Undress gloves carefully without touching the outer sides with the bare hand. The suitability for a specific workplace should be discussed with the manufacturer of protective gloves. Wash and dry your hands



#### Eye protection:

Keep eye wash bottle in reach. Wear tightly fitting protective goggles. In case of extraordinary processing problems, wear a face mask and protective suit.



#### General safety and hygiene measures:

Impervious clothing

The type of protective equipment will depend on the concentration and quantity of dangerous substances at the workplace



## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

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Appearance / 20 ° C:	liquid
Smell:	characteristic
Odor threshold :	Not applicable
pH-value :	/
Vapor pressure / 20°C	853000 Pa
Melting point:	Not determined
Boiling point:	-42°C (applies for propellant)
Flash point :	-/
Ignition temperature:	Not determind
Auto ignition:	/
Danger of explosion:	Risk of bursting at temperatures > 50 ° C. Damage of the container Formation of explosive gas or vapor / air mixture.

Explosion limits:	
Lower:	1,5 Vol. %
upper:	8,5 Vol. %
pressure (20°C):	2,0-4,0 bar
Density at 20°C:	approx. 0,790 Kg/L
Solubilizy in /miscibility with water	Not miscible
Viscosity:	
Dynamic:	50 mPa*s
Kinematic:	63 mm <sup>2</sup> /s
Solvent content:	
Organic solvents:	0,0%
VOC:	30,46% = 216,888 g/L

**9.2 Other information:** No further relevant information available  
Further information: Vapors are heavier than air

## **Section 10: Stability and reactivity**

### **10.1 Reactivity**

Stable at normal circumstances

### **10.2 Chemical stability**

Stable at normal circumstances

### **10.3 Possibility of hazardous reactions**

none

### **10.4 Conditions to avoid**

Protect from sunlight and temperatures above +50°C

### **10.5 Incompatible materials**

Do not store near sources of ignition

### **10.6 Hazardous decomposition products**

No dangerous decomposition products known

## **Section 11: Toxicological information**

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## 11.1 Information on toxicological effects

From the preparation itself: no additional information available

### n- Butan (<0,01%, Butadien -1,3)

Oral	LD50	≥ 5000 mg/Kg (rat)
dermal	LD50	≥ 5000 mg/Kg (rabbit)
Inhalativ	LC50/4h	≥ 50 mg/l (rat)

### 74-98-6 Propan

oral	LD50	≥ 5000 mg/Kg (rat)
dermal	LD50	≥ 5000 mg/Kg (rabbit)
Inhalativ	LC50/4h	>50mg/l (rat)

#### Primary irritation:

**On the skin:** no irritant effect

**On the eye:** no irritant effect

**Sensitization:** No sensitizing effect known

NARA Spray does not contain any allergens and is completely non-toxic.

## Section 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

n-Butan (<0,01% Butadien-1,3) log Pow: 2,890

### 12.4 Mobility in soil

**Water hazard class, WHC:** 1

**Water solubility:** insoluble

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Do not empty into drains. Disposal must be carried out by an approved service provider. Any restrictions imposed by local authorities must always be observed

## Section 14: Transport information

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## 14.1 UN-Number

UN1950

## 14.2 UN shipping name

UN 1950 AEROSOLS, flammable, 5F, (D)

## 14.3 Transport hazard classes

### hazardous characteristics

Fire. Explosion. Encapsulations may burst under heat

### Additional information

Search for protection. Do not stay in low-lying areas. Keep away from sources of ignition



## 14.4 Packing group

ADR, IMDG, IATA

eliminates

## 14.5 Environmental hazards

Not dangerous for the environment

## 14.6 Special precautions for user: Warning: Gases

Kemler-Number

-

EMS-Number

F-D, S-U

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

Not applicable

### Transport/further information:

#### ADR

Limited Quantity (LQ)

1I

Tunnel restriction code

D

In accordance transport as limited quantity. 3.4 ADR:

Marking: diamond "limited quantity"

### Remark:

Endorsement in transportation paper: transport according to Chapter 3.4

ADR

Tremcard: not prescribed

UN „Model Regulation“

UN1950m AEROSOLS, 2.1

## Section 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislations for the substance or mixture

#### Water hazard class:

1

Volatile organic compounds (VOC),

30,458 %

Volatile organic compounds (VOC),

216,888 g/l

Safety, health and environmental regulations/legislations for the substance or mixture

aliphatic hydrocarbons > 30%

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## 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

### Section 16: Other information

#### Relevant phrases

H220 flam. Gas 1 Extremely flammable gas.  
H222 flam. Aerosol 1 Extremely flammable aerosol  
H229 Contains gas under pressure; may explode if heated.

#### Abbreviations and acronyms:

RID Reglement concernant le transport international ferroviaire de marchandises Dangereuses  
ICAO International civil aviation Organisation  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route, German European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG International Maritim Code for Dangerous Goods  
IATA International Air Transport Association  
GHS Globally Harmonised System of classification and Labelling of Chemicals  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
CAS Chemical Abstracts Service  
VOC Volatile Organic Compounds (USA, EU)  
LC50 Lethal concentration, 50 percent  
LD50 Lethal dose, 50 percent  
Flam. Gas 1 Flammable gases, Hazard Category 1  
Flam. Aerosol 1 Flammable aerosols, Hazard Category 1  
Press. Gas C Gases under pressure: Compressed gas  
Press. Gas L Gases under pressure: Liquefied gas  
WHC Water hazard class  
WHC 1 Low hazardous to water

\*Changed data in comparison to the previous version.

#### Further information

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830. Classification has been calculated in accordance with regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.