

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)



prepared: 14.06.2016
revised: 25.08.2016
valid: 25.08.2016
Version: 2*

replaces version: 1

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

1.1 Product identifier:

Trade name/designation: NARA SPRAY-Savoury Flavour

Other means of identification: -

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

Relevant identifies uses: -

Uses advised against: -

1.3 Details of the suppliers of this safety data sheet

Futura GmbH Vertriebsgesellschaft

Adress

Rudolf-Diesel-Strasse 35

Post Code /Country

D-33178 Borchen

1.4 Emergency telephone number

+49 (0) 5251/ 69161-79

Section 2: Hazard Idintifiacion

2.1 Classification of the substance or mixture

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

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Classification according to 67/548/EC, or 1999/45/EG:

R12: Extremely flammable

F+: Extremely flammable

Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification Guidelines for Preparations of the EU" in the latest valid version.

Caution! Pressurized container.

Classifying system:

The classification corresponds to the current EC lists, and expanded upon from technical literature and company information

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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:

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

Precautionary statements:

P102: Keep out of reach of children.
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.
P501: Dispose of contents/container to perform the hazardous waste collection

Additional labeling

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

2.3 Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

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: INDEX number: CLP Classification: Reg.no.	106-97-8 203-448-7 601-004-00-0 H220 Flam. Gas 1 H280 Press. Gas C 01-2119474691-32
Propan	5-15 %	CAS No: EINECS:	74-98-6 200-827-9

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		INDEX number: CLP classification: Reg.no.: R-Sätze	601-003-00-5 H220 Flam. Gas 1 H280 Press. Gas L 01-2119486944-21 R12
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(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:

Move victim to fresh air.
Not leave affected persons unattended

Following inhalation:

Let sit upright, supply fresh air, seek medical advice.

Following skin contact:

Generally the product does not irritate the skin. For complaints rinse first with plenty of water, then if necessary seek medical attention

Following eye contact:

Flush eyes several minutes under running water with the eyelid wide open, seek medical advice.

Following ingestion:

Rinse mouth, do not induce vomiting Consult doctor if symptoms persist

4.2 Most important symptoms and effects, both acute and delayed

Skin contact:

none

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 masures

5.1 Extinguishing media:

Suitable extinguishing media:

CO2, powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media:

Water with full jet

5.2 Special hazards arising from the substance or mixture:

Fire spreading by bursting and injury by fire heat

5.3 Advice for fire fighters

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Protective equipment: No special measures required
Additional information: Cool endangered containers with water spray.

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

Ensure adequate ventilation.
Evaporate volatile - remains pick up mechanically

6.4 Reference to other sections

Information for safe handling see section 7
Information regarding personal protective equipment see chapter 8
Information for disposal see section 13

Section 7: Handling and storage

7.1 Protective measure

Ensure good ventilation / exhaustion at the workplace.
Note on fire and explosion protection:
Keep ignition sources away - Do not smoke.
Pressurized container. Protect from sunlight and temperatures above 50 ° C (i.e. electric lights). Even after use do not open forcible and do not burn. Do not spray on a naked flame or any incandescent material.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:

Storage at room temperature.
Observe official regulations on storing packaging with pressurized containers.

Advice on storage: Store away from oxidizing agents.

Further information about storage conditions: Protect from heat and direct sunlight.

Recommended storage temperature: 15-35 ° C, max. 50 ° C

Storage class: 2B (Aerosols)

Classification according to Betriebssicherheitsverordnung (BetrSichV): ---

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7.3 Specific end uses

No further relevant information available

Section 8: Exposure controls / personal protection

Additional information about design of technical facilities:

no further information, see section 7

8.1 Control parameters

Occupational exposure limits in the workplace and / or biological limit values Occupational Exposure Limits (OEL) Germany

106-97-8 Butan	
OEL	2400mg/m ³ , 1000ml/m ³ 4(II); DFG
74-98-6 Propan	
OEL	1800mg/m ³ , 1000ml/m ³ 4(II), DFG

8.2 Exposure control

Personal protective equipment:

General safety and hygiene measures:

Do not inhale gases / vapors // aerosols

Impervious clothing

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

Respiratory protection:

Unnecessary by good room circulation

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

Hand protection:

Glove material

When contamination possibility Nitrile gloves according to EN 347 use (permeation > 480min)

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

Penetration time of glove material > 480 min / 0,4mm thickness

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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance / 20 ° C:	liquid
Smell:	characteristic
Odor threshold :	Not applicable
pH-value :	/
Melting point:	Not determined
Boiling point:	-42°C (applies for propellant)
Flash point :	-/
Ignition temperature:	Not determined
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
Solubility in /miscibility with water	Not miscible
Viscosity:	
Dynamic:	50 mPa*s
Kinematic:	63 mm ² /s
Solvent content:	
Organic solvents:	0,0%
VOC:	30,45% = 216,759 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

Thermal decomposition / conditions to be avoided: Risk of bursting at temperatures above 50 ° C

10.3 Possibility of hazardous reactions

By use or incidental release the formation of explosive vapor / air mixtures is possible.

10.4 Conditions to avoid

Use near sources of ignition. Protect from sunlight (+50°C)

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products known

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Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity: Setting LD / LC50 values 106-97-8 Butan

Oral	LD50	≥ 5,0 mg/Kg (rat)
dermal	LD50	≥ 5,0 mg/Kg (rabbit)
Inhalativ	LC50/4h	≥ 50 mg/l (rat)

74-98-6 Propan

oral	LD50	≥ 5,0 mg/Kg (rat)
dermal	LD50	≥ 5,0 mg/Kg (rabbit)
Inhalativ	LC50/4h	>50ml/l (rat)

Primary irritation:

On the skin: no irritant effect

On the eye: no irritant effect

Sensitization: No sensitizing effect known

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

recommendation:

Still filled aerosol cans: material recycling

Empty aerosol cans: buyback centre

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European waste catalogue

16 00 00 WASTE. NOT OTHERWISE SPECIFIED IN THE LIST.
16 05 00 Gases in pressure containers and discarded chemicals
16 05 04 Containing dangerous gas containing substances in pressure containers (including halons)

Contaminated packaging:

Recommendation: Material recycling EWC 150104

Section 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA UN1950

14.2 UN shipping name

ADR 1950 AEROSOLS
IMDG AEROSOLS
IATA AEROSOLS, flammable

14.3 Transport hazard classes

ADR	
Class	2 5F Gas
Hazard labels	2.1
IMDG, IATA	
Class	2.1
Label	2.1

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
Liquid Quantity (LQ) 1l
Special provision 2
Tunnel restriction code D

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Remark: In accordance transport as limited quantity. 3.4 ADR:
Marking: diamond "limited quantity"
Endorsement in transportation paper: transport according to Chapter 3.4 ADR

UN „Model Regulation“ Tremcard: not prescribed
UN1950m AEROSOLS, 2.1

Section 15: Regulatory information

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

aliphatic hydrocarbons < 30%

EU Regulation:

Authorizations and/or restrictions on use:

Observe employment limit for young people
Note Employment restrictions concerning pregnant and lactating mothers

Classification according to Betriebssicherheitsverordnung (BetrSichV): -

Water hazard class: 1

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

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Section16: Other information

Relevant phrases

H220 Extremely flammable gas.
H280 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

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Changed data in comparison to the previous version.

Futher information

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 453/2010. Classification has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and 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.