Safety Data Sheet
according to Regulation (EC) No 2015/830

prepared:	04.12.2017		
revised:	06.02.2018		
Valid from:	06.02.2018		
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-CHOC NUT

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

Adress
Rudolf-Diesel-Strasse 35

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1.4 Emergency telephone number
+49 (0) 5251/ 69161-79

Section 2: Hazard Idintifiaction

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:

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 igredients

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

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:
CO2, 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
/

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

n – Butan (<0,01% Butadien -1,3)	
	1,928 mg/m³
Propan	
	1800mg/m^3

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

Appearance / 20 ° C:	liquid
Smell:	charakteristic
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 mm²/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

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 potentail
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 considartions

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

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
Additiional 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)	1l
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%

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment is not required.

Section16: 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 Organisiation
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 Assocciation
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.

Futher 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.