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# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

## **Captain Clean Defrost Spray**

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

### 1.1. Product identifier

Captain Clean Defrost Spray

UFI: 0TJ3-HQ7K-4VS3-QM3Y

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

#### Use of the substance/mixture

Cleaning agent

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

Company name: GHZ Matra AG
Street: Max-Volmer-Str. 14
Place: D-40724 Hilden
Telephone: +49 (0) 2103 3959 - 0

E-mail: info@ghz-matra.de
Contact person: Division: Sales
E-mail: Info@GHZ-Matra.de
Internet: www.ghz-matra.de

**1.4. Emergency telephone** +49 (0) 551 / 19240 (24h)

number:

### **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

# Regulation (EC) No 1272/2008

Flam. Liq. 2; H225 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

## Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:





### **Hazard statements**

H225 Highly flammable liquid and vapour. H319 Causes serious eye irritation.

### **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of waste according to applicable legislation.

## Labelling of packages where the contents do not exceed 125 ml

Signal word: Danger



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### Pictograms:





#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### **Hazardous components**

CAS No	Chemical name	Chemical name		
	EC No	Index No	ndex No REACH No	
	Classification (Regulation (EC) No 1272/2008)			
64-17-5	ethanol; ethyl alcohol			45 - < 50 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
78-93-3	butanone; ethyl methyl ketone			1 - < 5 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits. M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc. Limits, M-factors and ATE				
64-17-5	200-578-6	ethanol; ethyl alcohol	45 - < 50 %		
	inhalation: LC50 = 124,7 mg/l (vapours); dermal: LD50 = 20000 mg/kg; oral: LD50 = 6200 mg/kg Eye Irrit. 2; H319: >= 50 - 100				
78-93-3	201-159-0	59-0 butanone; ethyl methyl ketone			
	inhalation: LC50 = 23,5 mg/l (vapours); dermal: LD50 = 6400 mg/kg; oral: LD50 = 4000 mg/kg				

### **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

### **General information**

When in doubt or if symptoms are observed, get medical advice.

### After inhalation

Provide fresh air. If experiencing respiratory symptoms: Call a doctor.

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eves

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

### After ingestion

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

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



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Treat symptomatically.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing powder, alcohol resistant foam, Carbon dioxide (CO2), Water spray jet.

#### Unsuitable extinguishing media

High power water jet.

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

Highly flammable. Vapours can form explosive mixtures with air.

In case of fire may be liberated: Pyrolysis products, toxic

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

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

#### General advice

Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Evacuate area.

## For non-emergency personnel

Remove all sources of ignition. Provide adequate ventilation. Use personal protection equipment.

### For emergency responders

Wear personal protection equipment (refer to section 8).

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

### For containment

Stop leak if safe to do so. Cover drains.

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Ventilate affected area.

## Other information

Use non-sparking tools.

Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### Advice on safe handling

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes.

Use personal protection equipment.



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### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

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

### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges.

## Hints on joint storage

Do not store together with: Strong alkali, Strong acid, strong base Keep away from food, drink and animal feedingstuffs.

### Further information on storage conditions

Keep away from heat. Protect from direct sunlight. Recommended storage temperature +5°C - +30°C

### 7.3. Specific end use(s)

Cleaning agent

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
64-17-5	Ethanol	1000	-		STEL (15 min)	
64-17-5	Ethyl alcohol	1000	-		STEL (15 min)	
78-93-3	Methyl ethyl ketone (MEK) (Butan-2-one)	200	600		TWA (8 h)	
		300	900		STEL (15 min)	
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	
57-55-6	Propane-1,2-diol, total (vapour and particulates)	150	470		TWA (8 h)	

### **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	Butan-2-one	70 µmol/L	Urine	Post shift

#### **DNEL/DMEL values**

CAS No	Substance				
DNEL type		Exposure route	Effect	Value	
64-17-5	ethanol; ethyl alcohol				
Worker DNEL,	long-term	dermal	systemic	343 mg/kg bw/day	
Worker DNEL, long-term		inhalation	systemic	950 mg/m³	
78-93-3 butanone; ethyl methyl ketone					
Worker DNEL, long-term		dermal	systemic	1161 mg/kg bw/day	
Worker DNEL, long-term		inhalation	systemic	600 mg/m³	



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#### **PNEC values**

CAS No	Substance	
Environment	Environmental compartment	
64-17-5	ethanol; ethyl alcohol	
Freshwater		0,96 mg/l
Marine wate	r	0,79 mg/l
Freshwater	sediment	3,6 mg/kg
Marine sedir	nent	2,9 mg/kg
Micro-organisms in sewage treatment plants (STP)		580 mg/l
Soil		0,63 mg/kg
78-93-3	butanone; ethyl methyl ketone	
Freshwater		55,8 mg/l
Marine wate	r	55,8 mg/l
Freshwater sediment		284,74 mg/kg
Marine sediment		284,7 mg/kg
Micro-organisms in sewage treatment plants (STP)		709 mg/l
Soil		22,5 mg/kg

### 8.2. Exposure controls









## Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

## Individual protection measures, such as personal protective equipment

### Eye/face protection

Use eye protection according to EN 166.

#### Hand protection

Tested protective gloves are to be worn: EN ISO 21420:2020

Suitable material: Polyethylene (LLPDE)
Thickness of the glove material >= 0,062 mm

penetration time (maximum wearing period): > 480 min.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

### Skin protection

Wear suitable protective clothing.

## **Respiratory protection**

Respiratory protection necessary at: insufficient ventilation, exceeding exposure limit values.

# Thermal hazards

Flame-retardant protective clothing. Wear anti-static footwear and clothing

## **Environmental exposure controls**

Avoid release to the environment.



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### **SECTION 9: Physical and chemical properties**

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

Physical state: Liquid
Colour: blue
Odour: like: Alcohol
Odour threshold: not determined

Melting point/freezing point:

Boiling point or initial boiling point and

91 °C

boiling range:

Highly flammable. Flammability: Lower explosion limits: not determined Upper explosion limits: not determined 21 °C Flash point: 421 °C Auto-ignition temperature: not determined Decomposition temperature: 6 - 9 pH-Value: Viscosity / kinematic: 1.64 mm<sup>2</sup>/s

(at 20 °C)

Water solubility: very soluble

Solubility in other solvents not determined

Partition coefficient n-octanol/water: not determined Vapour pressure: 41,09 hPa

(at 20 °C)

Vapour pressure: 198,82 hPa

(at 50 °C)

Density (at 20 °C): 0,891 - 0,911 g/cm³
Relative vapour density: not determined
Particle characteristics: not applicable

### 9.2. Other information

# Information with regard to physical hazard classes

Explosive properties

Vapours can form explosive mixtures with air.

### Other safety characteristics

Viscosity / dynamic: 1,43 mPa·s

(at 20 °C)

### **Further Information**

No information available.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Highly flammable.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

## 10.3. Possibility of hazardous reactions

Vapours can form explosive mixtures with air.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Heat. UV-radiation/sunlight.



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## 10.5. Incompatible materials

Strong alkali, Strong acid, strong base

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Pyrolysis products, toxic

## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
64-17-5	ethanol; ethyl alcohol					
	oral	LD50 mg/kg	6200	Rat	Pre-supplier/manufact urer	
	dermal	LD50 mg/kg	20000	Rabbit	Pre-supplier/manufact urer	
	inhalation (4 h) vapour	LC50 mg/l	124,7	Rat	Pre-supplier/manufact urer	
78-93-3	butanone; ethyl methyl k	etone				
	oral	LD50 mg/kg	4000	Rat	Pre-supplier/manufact urer	
	dermal	LD50 mg/kg	6400	Rabbit	Pre-supplier/manufact urer	
	inhalation (4 h) vapour	LC50	23,5 mg/l	Rat	Pre-supplier/manufact urer	

## Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

### Information on likely routes of exposure

oral, Skin contact, Eye contact, Inhalation.

### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.



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# **SECTION 12: Ecological information**

### 12.1. Toxicity

Based on available data, the classification criteria are not met.

The product is not: Ecotoxic.

CAS No	Chemical name	Chemical name					
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
64-17-5	ethanol; ethyl alcohol	ethyl alcohol					
	Acute fish toxicity	LC50 mg/l	11000	96 h	Alburnus alburnus (alburnum)	Pre-supplier/manu facturer	
	Acute crustacea toxicity	EC50 mg/l	9268		Daphnia magna (Big water flea)	Pre-supplier/manu facturer	
78-93-3	butanone; ethyl methyl ke	tone					
	Acute fish toxicity	LC50 mg/l	3220		Pimephales promelas (fathead minnow)	Pre-supplier/manu facturer	
	Acute crustacea toxicity	EC50 mg/l	5091	48 h	Daphnia magna (Big water flea)	Pre-supplier/manu facturer	

## 12.2. Persistence and degradability

The product has not been tested

CAS No	Chemical name							
	Method	Value	d	Source				
	Evaluation	•		•				
64-17-5	ethanol; ethyl alcohol							
		89 %	14	Pre-supplier/manufactur er				
	Biodegradation	•	-	•				
78-93-3	butanone; ethyl methyl ketone							
		89 %	20	Pre-supplier/manufactur er				
	Biodegradation	•	-					

# 12.3. Bioaccumulative potential

The product has not been tested.

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol; ethyl alcohol	-0,31
78-93-3	butanone; ethyl methyl ketone	0,29

## 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

No information available.

### **Further information**

Avoid release to the environment.



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## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### List of Wastes Code - residues/unused products

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; discarded organic chemicals consisting of or containing hazardous

substances; hazardous waste

### List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; discarded organic chemicals consisting of or containing hazardous

substances: hazardous waste

### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Classification code: F1

Special Provisions: 274 601 640D

Limited quantity: 1 L
Excepted quantity: E2

# Marine transport (IMDG)



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14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Marine pollutant:

Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E. S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1993

14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (Ethanol)

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3



Special Provisions:

Limited quantity Passenger:

Passenger LQ:

Excepted quantity:

A3

1 L

Y341

Excepted quantity:

E2

IATA-packing instructions - Passenger:353IATA-max. quantity - Passenger:5 LIATA-packing instructions - Cargo:364IATA-max. quantity - Cargo:60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: flammable liquids.

14.7. Maritime transport in bulk according to IMO instruments

No information available.

## **SECTION 15: Regulatory information**

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

## **EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2010/75/EU (VOC): 60 %

Information according to 2012/18/EU P5c FLAMMABLE LIQUIDS

(SEVESO III):

**Additional information** 

Regulation (EC) No. 648/2004 [Detergents regulation]

**National regulatory information** 

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Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

1 - slightly hazardous to water

work protection guideline' (94/33/EC).

Water hazard class (D): Additional information

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Observe in addition any national regulations!

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 2,3,6,7,8,9,10,11,12,13,14,15,16.

#### Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

**UN: United Nations** 

CAS: Chemical Abstracts Service
M-Factor: Multiplication Factor
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate LC50: Lethal concentration, 50%

LD50: Lethal dose, 50% LL50: Lethal loading, 50% EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

IMDG: International Maritime Code for Dangerous Goods

EmS: Emergency Schedules MFAG: Medical First Aid Guide

IATA: International Air Transport Association ICAO: International Civil Aviation Organization

TI: Technical Instructions

DGR: Dangerous Goods Regulations

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds EG or EC: European Community

IE: Industrial Emissions

SVHC: Substance of Very High Concern

Flam. Liq: Flammable liquid Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure



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### Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method

## Relevant H and EUH statements (number and full text)

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.

### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)