X **SAFETY DATA SHEET** (INFORMATION FORM FOR CHEMICALS DATA)

Date: June 25, 2015 **Former date:** August 31, 2010

(*) concerns only chemical notification
(**) either 3.1 or 3.2 must be filled

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name / Substance name
Ice Power Cold Spray

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

The uses of the chemical
Cooling aerosol

Classification of economic activities (NACE) (*)	246 Manufacture of other chemical products
Use categories (UC62) (*)	55. Other chemicals
The chemical can be used by the general public (*)	X
The chemical is used by the general public only (*)	☐

1.3 Details of the supplier of the Safety Data Sheet

Supplier (manufacturer, importer, only representative, downstream user, distributor)
Responsible for placing a chemical on the market in Finland (*)
Fysioline Oy

Street address	Arvionkatu 2
Postcode and post office	FI-33840 Tampere
Telephone number	+358 3 2330 300
Telefax	+358 3 2330 333
E-mail address	info@fysioline.fi
Finnish Business ID (Y code) (*)	FI 0927611-8

1.4 Emergency telephone number

Poison Information Centre/HUS (09) 471 977 (direct) tai (09) 4711 (exchange)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The mixture is classified in accordance with the 1272/2008 (CLP)
H222
67/548/EEC - 1999/45/EC
F+; R12

2.2 Label elements

Danger GHS 02

Vaaralausekkeet
H222 Extremely flammable aerosol

Turvalausekkeet
P251 Pressurized container: Do not pierce or burn, even after use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P102 Keep out of reach of children.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F

2.3 Other hazards

Danger of fire and explosion: Extremely flammable. Easily volatile.
Risks to health: Inhale of great amounts of vapor may cause headache, dizziness

and nausea. Excessive use may cause local frostbite.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures (**)

Substance name	CAS-, EC- or index number	REACH Registration No.	Concentration	Classification
Ethanol	64-17-5, 200-578-6	01-2119457610-43-xxxx	2-8 %	**1272/2008 (CLP)** Flammable liq., cat. 2, H225 Eye irrit., cat. 2, H319 **67/548/EEC** F, R11; Flammable
Menthol	2216-51-5, 218-690-9		< 2	**1272/2008 (CLP)** Eye irrit., cat. 2, H315. **67/548/EEC** Xi; Irritative R38: Skin irritative.
Propane	74-98-6, 200-827-9		30-50 %	**1272/2008 (CLP)** Flammable gas, cat.1, H220 **67/548/EEC** F+; R12 Extreamly flammable
Butane	106-97-8, 203-448-7		30-50 %	**1272/2008 (CLP)** Flammable gas, cat. 2, H220 **67/548/EEC** F+; R12 Extreamly flammable

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

If the symptons are continuous, get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation

If a person has been exposed to vapors and feels unusually tired or nauseous, he must removed to fresh air. If the symptons are continuous, get medical advice/attention.

Skin

Take notice of that contaminated clothing can be flammable. Contaminated clothing must be wet before removing. Clothing must be washed before next use. Rinse skin with water/shower. If irritation continues, get medical advice/attention.

Splashes in eyes

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.If irritation continues, get medical advice/attention.

Indigestion

Rinse mouth. Do NOT induce vomiting.

Information to doctor or other trained persons giving first aid

Symptomatic treatment. Frostbites can be covered up with a sterile bandage.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Foam, dry extinguishing media, carbon dioxide, sand and soil – in small fires.

5.2 Special hazards arising from the substance or mixture

Danger of explosion: pressure increases in the spray cans, if they heat up in a fire.

5.3 Advice for firefighters

Proper protective equipments and pneumatic respirator.

Spray cans near open fire must be chilled with water syringe from a sufficient distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Unnecessary persons must be evacuated from the area.

6.2 Environmental precautions

6.3 Methods and material for containment and cleaning up

Vaporizing under surveillance. Take notice of the fire-, explosive- and health risks.

6.4 Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid inhaling the vapours and repetitive or long contact with skin. Keep away from sources of ignition. No smoking. Avoid sparks.

7.2 Conditions for safe storage, including any incompatibilities

Store in a warehouse suitable for extremely flammable aerosols. Do not pierce or burn, even after use.

7.3 Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limit values

HTP values

Propane:
800 ppm (8h), 1 100 ppm (15 min)
1 500 mg/m³ (8h), 2 000 mg/m³ (15 min)
Butane:
800 ppm (8h), 1 000 ppm (15 min)
1 900 mg/m³ (8h), 2 400 mg/m³ (15 min)
Ethanol:
1 000 ppm (8h), 1 300 ppm (15 min)
1 900 mg/m³ (8h), 2 500 mg/m³ (15 min)

Other limit values

DNEL

Ethanol

Exposure routes / Inhalation : 950 mg/m3
(Potential health effects: Chronic effects / End use / Workers)
Exposure routes / Inhalation : 1900 mg/m3
(Potential health effects: Acute effects, local effects / End use / Workers)
Exposure routes / Dermal: 343 mg/kg
(Potential health effects: Chronic effects / End use / Workers / Exposure time 1 d)
Exposure routes / Inhalation: 950 mg/m3
(Potential health effects: Acute effect, local effect / End use / Consumer)
Exposure routes / Dermal: 206 mg/kg
(Potential health effects: Chronic effects / End use / Consumer / Exposure time 1 d)
Exposure routes / Inhalation: 114 mg/m3
(Potential health effects: Chronic effects / End use / Consumer)
Exposure routes / Ingestion: 87 mg/kg
(Potential health effects: Chronic effects / End use / Consumer / Exposure time 1 d)

PNEC

Ethanol

Untreated sewage: 580 mg/l
Local fresh water: 0.96 mg/l
Soil: 0.63 mg/kg
Marine water: 0.79 mg/l

8.2 Exposure controls

Appropriate engineering controls

No special requirements under normal conditions of use.

Eye / face protection

Avoid contact with eyes.

Skin protection

Avoid continuous skin contact.

Hand protection

Not necessary under normal conditions.

Respiratory protection

Not necessary under normal conditions.

Thermal hazards

Product may cause frost bites if sprayed too close to the skin.

Environmental exposure controls

Not necessary under normal conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Aerosol
Odour	Mentholic, mon-perfumed
Odour threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	- 22 ºC
Flash point	Below 0 ºC
Evaporation rate	Not available
Flammability (solid, gas)	Flammable gas
Upper/lower flammability or explosive limits	Lower 1.9 vol-% (butane), upper 8.5 vol-% (butane)
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,55 g/cm^3
Solubility(ies)	Not soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	405 ºC (butane)
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

9.2 Other information

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

-

10.2	**Chemical stability**
	Stable under normal conditions.
10.3	**Possibility of hazardous reactions**
	No hazardous reactions known.
10.4	**Conditions to avoid**
	Do not spray on an open flame or other ignition source. Keep away from sources of ignition. No smoking. Avoid sparks.
10.5	**Incompatible materials**
	Significant additional information is not available.
10.3	**Hazardous decomposition products**
	No known hazardous decomposition products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

-

Skin corrosion/irritation

May cause mild skin irritation.

Serious eye damage/irritation

No eye irritation expected.

Other information

SECTION 12: ECOLOGICAL INFORMATION

12.1	**Toxicity**
	-
12.2	**Persistence and degradability**
	-
12.3	**Bioaccumulative potential**
	No bioaccumulative potential.
12.4	**Mobility in soil**
	No information available.
12.5	**Results of PBT and vPvB assessment**
	-
12.6	**Other adverse effects**

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**
	Large amounts should be taken to an approved waste disposal plant. Product residues should be disposed of waste management in accordance with the instructions of the person responsible. Empty containers can be disposed of with household waste.

SECTION 14: TRANSPORT INFORMATION

14.1	**UN number**
	1950
14.2	**UN proper shipping name**
	Aerosol
14.3	**Transport hazard class(es)**
	2.1
14.4	**Packing group**
	2
14.5	**Environmental hazards**
	Unknown.
14.6	**Special precautions for user**

-

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

---

SECTION 15: REGULATORY INFORMATION

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

Medical Device Directive MDD 93/42/EEC

15.2 Chemical safety assessment

No harm if used as instructed.

SECTION 16: OTHER INFORMATION

Indication of changes

The new SDS template in accordance with REACH-2010; mixture CLP classification and labeling.

Abbreviations and acronyms

-

Key literature references and sources for data

Chemical Safety Assessment.

CLP-SETTING (EY) N:o 1272/2008

Classification according to EU Directive 67/548/EEC or 1999/45/EC

Data prepared by raw material suppliers

Used method in evaluating classification

Regulation (EU) No. 1272/2008, and the correlation table 67/548/EEC or 1999/45/EC (CLP Annex VII) rating.

List of relevant R-and S-phrases or/and safety and precautionary statements

F	Flammable
F+	Extreamly flammable
Xi	Irritating
R11	Highly flammable
R12	Extremely flammable
R38	Irritating to skin
H220	Flammable gas, cat.1
H225	Flammable liquid, cat. 2
H319	Eye irritation, cat. 2

Training advice for workers

Take notice of labels and material safety data sheets for the working chemicals.