

MATERIAL SAFETY DATA SHEET

Prepared in accordance to Regulation (EC) No 1907/2006 of 18 December 2006

Cod: Spray Can ml 400

product **ICE SPRAY**

first compilation 03/2007

review 09/2010

1 IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Identification of the mixture **ICE SPRAY**
1.2 Use of the mixture Ice spray (spray can of ml 400)
1.3 Company identification PHYTO PERFORMANCE ITALIA S.r.l. - Via E. Fermi, 9 - 35030 VEGGIANO (PD)
tel +39 0499001919 - fax +39 0499002668
Email of the competent person acquisti@phytoperformance.com
1.4 Emergency telephone +39 049 9001919 (office hours)

2 HAZARDS IDENTIFICATION

The mixture is considered dangerous under directives 1999/45/EC and subsequent amendments. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. The aerosol containers overheated burst and can be ejected with violence from a distance and can take place a dangerous mechanism for the fire. Extremely flammable.

3 COMPOSITION/IDENTIFICATION ON INGREDIENTS

Components n° CAS/EINECS/INDEX	% by weight*	Symbols	Phrases R (for the wording of the listed risk phrase refer to section 16)				
Cineole	0,1÷1	--	10	--	--	--	--
EINECS 207-431-5 CAS 470-82-6 INDEX ---							
Butane	50÷75	F+	12	--	--	--	--
EINECS 203-448-7 CAS 106-97-8 INDEX 601-004-00-0							
Isobutane	20÷30	F+	12	--	--	--	--
EINECS 200-857-2 CAS 75-28-5 INDEX 601-004-00-0							
Propane	1÷5	F+	12	--	--	--	--
EINECS 200-827-9 CAS 74-98-6 INDEX 601-003-00-5							

*included superior limit

4 FIRST AID MEASURES

- 4.1 Ingestion
Although it is extremely unlikely event, do not induce vomiting or give anything without physician consent. Consult a physician immediately showing safety data sheets.
- 4.2 Inhalation
Remove immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.
- 4.3 Direct contact (pure product) with:
- 4.3.1 Skin
Take contaminated clothing immediately off. Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product. Call a physician in serious cases.
- 4.3.2 Eyes
Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Immediately flush eyes with a copious amount of running water for at least 15 minutes, keeping open eyelids; therefore protect the eyes with dry sterile gauze or a clean and dry cloth and resort to medical attentions.

5 FIRE-FIGHTING MEASURES

Manufactured under pressure in sealed metal container. Cool containers with water spray trying to remove them from the fire. The aerosol containers can be overheated and burst violently ejected from a distance (protect the head using a safety helmet).

- 5.1 Suitable extinguishing media
Dry chemical, foam, CO2 and spray water
- 5.2 Extinguishing media which shall not be used for safety reasons
Direct jets of water
- 5.3 Special exposure hazards arising from the mixture itself, combustion products, resulting gases
Dangerous thermal decomposition products.
- 5.4 Special protective equipment for fire-fighters
Use appropriate protective equipment for the breathing apparatus, skin and eyes (see also paragraph 8 below). The spray water can be used to protect the people involved in the extinction. Cool containers with water spray trying to remove them from the fire. You may also use self respirator, especially when working in confined and poorly ventilated spaces and in any case if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...).

6 ACCIDENTAL RELEASE MEASURES

Given the tightness of the aerosol, it is unlikely that the spillage may occur. However, in case some container suffer a damage that can cause a leak, isolate the cylinder in question leads to fresh air or covering it with inert and non-combustible material (eg sand, earth, vermiculite) and being careful to avoid any flash point that could lead to a serious fire hazard. Discard the residue in compliance with the regulations.

- 6.1 Personal precautions such as:
Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
- 6.2 Environmental precautions such as:
Isolate the cylinder in question leads to fresh air or covering it with inert and non-combustible material (eg sand, earth, vermiculite) and being careful to avoid any flash point that could lead to a serious fire hazard. Discard the residue in compliance with the regulations.
- 6.3 Methods for cleaning up such as:
Give only to specialized companies. Contain and absorb spilled liquid with inert absorbent material (sand, earth, sepiolite, and other specific products) with damaged containers and store in containers fitted with closing.

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7 HANDLING AND STORAGE

7.1 Handling

Vapors are heavier than air and may spread close to the ground and form explosive mixtures with air. Prevent formation of flammable or explosive concentrations in the air. Pressurized container. Do not pierce or burn even after use. Do not spray on naked flame or incandescent. Use in areas adequately ventilated.

7.2 Storage

Pressurized container. Store in a ventilated and fresh place, in original packaging away from heat and sources of ignition.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

SUBSTANCE	TLV/TWA	TLV/STEEL	REFERENCE
Cineole	Data not available	Data not available	- -
Butane	1000 ppm	Data not available	ACGIH/2009
Isobutane	1000 ppm	Data not available	ACGIH/2009
Propane	1000 ppm	Data not available	ACGIH/2009

8.2 EXPOSURE CONTROL

8.2.1 Occupational exposure control

a) Respiratory protection

Not needed PPE for normal use. Work in cool and adequately ventilated areas. Do not smoke at work. In case of insufficient ventilation or prolonged exposure use adequate protective respiratory equipment (UNI EN 529:2006 - Respiratory protective devices - Recommendations for selection, use, care and maintenance - Guidance document).

b) Hand protection

Not needed PPE for normal use.

c) Eye protection

When handling product use safety glasses (EN166).

d) Skin protection

When handling the product wear suitable protective skin clothing (EN368).

8.2.2 Environmental exposure control

Minimize product release in the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance (physical state, colour)	: Gas colorless liquid (under pressure in sealed metal container)
Odour	: Characteristic of eucalyptus

9.2 Important information on human health, safety and environment

pH as sampled	: Not applicable
Boiling point/ Boiling range	: Data not available
Container volume	: ml 520
Product volume	: ml 400
Pressure at 20°C	: 3,0 ± 0,3 bar
Pressure test of container	: 15 bar
Flash point of liquid phase	: Data not available
Flash point of propellant	: Extremely flammable
Explosion limits	: 1,8 ÷ 9,5 % in volume
Density of liquid phase	: 0,550 ± 0,030
Density of mixture	: 0,550 ± 0,030
Water solubility	: Insoluble

9.3 Other information

Fat solubility	: Data not available
Auto-ignition	: ~ 360°C

The indicated properties do not represent standard specific of the product. To have more information about the standard specific refer to the specific bulletins of analysis.

10 STABILITY AND REACTIVITY

The aerosol product is stable for a period exceeding 36 months under normal storage conditions can not be dangerous reactions as the container is almost hermetically sealed.

10.1 Condition to avoided

In order to prevent the metal container can be damaged, keep away from acidic or basic products. Attention to the heat as temperatures above 50°C there is increased pressure inside the container as to be able to deformation of the cylinder until the outbreak.

10.2 Materials to avoided

Strong acid, oxidizing agents and chemical products.

10.3 Hazardous decomposition products

Stokes are detrimental to health.

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11 TOXICOLOGICAL INFORMATION

11.1 Oral acute toxicity

No harmful effects for man are presently known in common practice and when regular health measures are implemented.

11.2 Inhalation acute toxicity

Produced slightly intoxicating to high concentrations can exert a narcotic and cause asphyxiation.

11.3 Primary irritant effect (pure product):

11.3.1 On the skin:

In case of persistent jets will cause frostbite.

11.3.2 On the eye:

Reddening and lacrimation. May cause irreversible harm to eyes in case of prolonged contact.

12 ECOLOGICAL INFORMATION

Use in accordance with the good working practices avoiding to disperse the product in the environment.

12.1 Ecotoxicity

Data not available

12.2 Mobility

The product is volatile and will be divided into phases of the air dispersing quickly.

12.3 Persistence and biodegradability

Photochemical degradation in air proceeds at a moderate rate. Regarded as of little importance in episodic ozone formation.

12.4 Bioaccumulative potential

Data not available

12.5 Results of PBT assessment

Data not available

12.6 Other adverse effects

Data not available

13 DISPOSAL CONSIDERATIONS

The residues, after the same has been used in its typical use, must be disposed of in accordance with the regulations by delivering empty containers for final disposal and equipped for safe handling of containers containing pressurized liquid and gas residues. The empty container heated to temperatures exceeding 70°C may burst.

14 TRANSPORT INFORMATION

Air (IATA)	: 2			
Sea (IMO)	: Class: 2	EmS: F-D; S-U	Marine pollutant	: NO
UN No. and proper shipping name	: 1950 AEROSOL flammable		Limited quantities	: 1 L
Road/Rail (ADR/RID)	: 5F	Label: 2.1	Tunnel restriction code	: D
	Packaging group	: Not provided	Transport category	: 2

These packages shall be thrown or subjected to shock.

Special disposition : The containers must be placed inside the vehicle or container so that they can not overturn or fall. When objects are loaded onto pallets and these pallets are stacked, each layer of the pallet must be distributed evenly on the bottom layer, interposing, if necessary, a material of appropriate strength.

15 REGULATORY INFORMATION

15.1 Labelling according to EU guidelines

WARNINGS

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn even after use. Do not spray on a naked flame or incandescent material. Avoid direct inhalation and spray in eyes. Keep out of reach of children.



R 12 : Extremely flammable
S 9 : Keep container in a well-ventilated place.
S 16 : Keep away from sources of ignition - No smoking.
S 29 : Do not empty into drains.
S 46 : If swallowed, seek medical advice immediately and show this container or label.
S 51 : Use only in well-ventilated areas.

15.2 REGULATION EC 648/2004 relative of detergents

This mixture not including into the field of application of the Regulations.

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16 OTHER INFORMATION

16.1 List of relevant R phrases

R 10: Flammable

R 12: Extremely flammable

16.2 Training advice

The society speed up the Customer whom this receives card to carefully examine it to be informed of the eventual risks and advises the spread of the contained information to workers and how many others come into contact with the product. In the event that the product is delivered to others, remember the obligation to supply a copy of the present card so as to favour the exchange of the information contained in it. If during the examination of the card it will be necessary to give explanations or clarifications, will be sufficient to contact the responsible to the address email indicated to point 1.4 of the present card.

16.3 References

- ACGIH - American Conference of Governmental Industrial Hygienists
- CESIO - Classification and labelling of anionic, nonionic surfactants (1990)
- ECB - European Chemicals Bureau
- ECDIN - Environmental Chemicals Data and Information Network
- IARC - International Agency for Research on Cancer
- INRS - Fiche Toxicologique
- IPCS - International Programme on Chemical Safety (Cards)
- NIOSH - Registry of toxic effects of chemical substances (1983)
- OSHA - Agenzia europea per la sicurezza e la salute sul lavoro
- PHATOX - Pharmacological and Toxicological Data and Information Network

sections modified regarding the precedence review

This Safety Data Sheet is based upon data considered to be accurate as at the time of its preparation. Despite our efforts, it may not be up to date or applicable to the circumstances of any particular case.

We are not responsible for any damage or injury resulting from abnormal use, from any failure to follow appropriate practices or from hazards inherent in the nature of the product.