



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME:	Salerm Laca Fuerte
MSDS#	ART.480-481
Revision date	18-apr-2006
CAS#	Mixture
Product use	Aerosol Hair Fixative
Company information	SALERM COSMETICA PROFESIONAL SA Pza. Victor Martinez 08185 Lliça de Vall BARCELONA Spain
Emergency	U.S.A. Emergency telephone 01 973 745 0410 SPAIN Emergency telephone 0034 93 860 8130
General information	Business telephone 0034 93 860 8111

2. HAZARDS IDENTIFICATION:

Emergency overview	Extremely Flammable. Contents under pressure. Will be easily ignited by heat ,spark or flames.
Potencial health effects	
Eyes	Contact with eyes may cause irritation
Skin	Health injuries are not known or expected under normal use
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal
Ingestion	Do not ingest. Health injuries are not known or expected under normal use.
Target organs	Central nervous system.
Chronic efect	May cause central nervous system disorder (e.g.,narcosis involving a loss of coordination,weakness,fatigue,mental confusion,and blurred vision) and/or damage.
Signs and symptoms	Narcosis.Behavioral changes.Decrease in motor functions.

3. COMPOSITION/INFORMATION ON INGREDIENTS:

NAME	CAS No.:	CONTENT
ALCOHOL DENAT.	64-17-5	< 47 %
ISOBUTANE	75-28-5	< 20%
BUTANE	106-97-8	< 1%
PROPANE	74-98-6	< 5%
DIMETHYL ETHER	115-10-6	< 30 %
Non-hazardous and other components below reportable levels		> 3%

74-98-6

Composition comments This product is not considered to be a carcinogen by IARC,ACGIH,NTP,or OSHA.

4. FIRST AID MEASURES

First aid procedures

Eye contact	Immediately flush eyes with plenty of water for at least 20 minutes.Get medical attention if irritation develops or persist.
Skin contact	Get medical attention if irritation develops or persists.Wash off with soap and water
Inhalation	Move to fresh air
Ingestion	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.Call a physician if symptoms develop or persist. If ingestion of large amount does occur, seek medical attention
Notes to physician	Symptoms may be delayed
General advice	Ensure that medical personnel are aware of the material(s) involved,and take precautions to protect themselves.Call a physician if symptoms develop or persist. If you feel unwell,seek medical advice (show the label where possible). Use only as directed.Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

5. FIRE FIGHTING MEASURES:

Flammable properties:	Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard. Containers may explode when heated.
Extinguishing media	
Suitable extinguishing media	Carbon dioxide (CO2).Dry chemical .Water fog
Protection of firefighters	
Protective equipment for firefighters	Structural firefighters protective clothing will only provide limited protection.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions	Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind or spill/leak.
Methods for containment	Eliminate all ignition sources (no smoking,flares,sparks,or flames in immediate aera). Stop the flow of material, if this is without risk. Dike the spilled material , where this is possible.
Methods for cleaning up	Large Spills: Dike far ahead of liquid spill for later disposal.Absorb with earth,sand or other non-combustible material and transfer to containers for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE:

Handling:	Do not handle or store near an open flame, heat or other sources of ignition. Vapours may form explosive mixtures with air. All equipment used when handling the product must be grounded. Avoid contact with skin and eyes. Keep away from sources of ignition- No smoking. May be ignited by open flame. Do not breathe gas/fumes/vapour/spray.
Storage:	Level 2 Aerosol Do not handle or store near an open flame, heat or other sources of ignition. Store in cool place. Keep in a well-ventilated place. This material can accumulate static charge which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Use care in handling/storage. Keep the container dry. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Must not be exposed for direct sunlight or temperatures above 50°C or 120 °F.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Exposure guidelines

ACGIH- Threshold Limits Values-Time Weighted Averages (TLV-TWA)

Ethyl Alcohol	64-17-5	1000 Ppm TWA
Isobutane	75-28-5	1000 Ppm TWA (listed under aliphatic hydrocarbon gases alkane C1-C4)
Propane	74-98-6	1000 Ppm TWA (listed under aliphatic hydrocarbon gases alkane C1-C4)
Butane	106-97-8	1000 Ppm TWA (listed under aliphatic hydrocarbon gases alkane C1-C4)
Dimethyl ether	115-10-6	1000 ppm TWA

ACGIH- Threshold Limits Values-TLV Basis- Critical Effects

Ethyl Alcohol	64-17-5	Irritation
Isobutane	75-28-5	CNS depression; cardiac sensitization
Propane	74-98-6	CNS depression; cardiac sensitization
Butane	106-97-8	CNS depression; cardiac sensitization
Dimethyl ether	115-10-6	Dermatitis

OSHA- Final PELs-Time Weighted Averages (TWAs)

Ethyl Alcohol	64-17-5	1000 Ppm TWA; 1900 mg/m3 TWA
Propane	74-98-6	1000 Ppm TWA; 1800 mg/m3 TWA
Dimethyl ether	115-10-6	1000 ppm TWA

Engineering controls	Use explosion-proof equipment if high dust/air concentrations are possible. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits
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Personal protective equipment

Eye/ Face protection	Avoid contact with eyes. Applicable for industrial settings only. Wear chemical goggles.
Skin protection	Not normally needed.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
General hygiene considerations	When using do not smoke. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	Not available
Clarity	Not available
Color	Not available
Form	Aerosol.
Odor	Not available
Odor threshold	Not available
Physical state	Gas.
pH	Not available
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	-4.0 °F (-20 °C) estimated
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	0.750 - 0.850 g/mL
Relative density	Not available
Solubility (H2O)	Not available
Octanol/H2O coeff	Not available
Auto-ignition temperature	685.4 °F (363 °C) estimated
Decomposition temperature	Not available
VOC (Weight %)	94,81% estimated (works as a 80%)

10. STABILITY AND REACTIVITY:

STABILITY: Normally stable.

CONDITIONS TO AVOID: Avoid heat, flames and other sources of ignition.

HAZARDOUS DECOMP.PRODUCTS: Fire creates: Vapours/gases/fumes of:
Carbon monoxide (CO). Carbon dioxide (CO2).

INCOMPATIBLE MATERIALS Acids. Amines. Isocyanates. Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION:

Acute effects Acute LD50: 2650 mg/kg estimated , Rat , Oral

Component analysis –LD50

Toxicology Data- Selected LD50s and LC50s

Ethyl alcohol	64-17-5	Inhalation LC50 Rat: 124,7 mg/L/4H ; Oral LD50 Rat: 1501 mg/kg
Isobutane	75-28-5	Inhalation LC50 Rat: 658 mg/L/4H
Propane	74-98-6	Dermal LD50 Rat: 658 mg/kg
Butane	106-97-8	Inhalation LC50 Rat:658 g/m3/4H
Dimethyl ether	115-10-6	Inhalation LC50 Rat: 3000 mg/m3

Local effects Contact may irritate or burn eyes

Chronic effects Prolonged exposure may cause chronic effects

Carcinogenicity

ACGIH-Treshold Limits Values- Carcinogens

Ethyl Alcohol	64-17-5	A4- Not Classifiable as a Human Carcinogen
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Reproductive effects Possible reproductive hazard

Further information Symptoms may be delayed

12. ECOLOGICAL INFORMATION:

Ecotoxicity This material is not expected to be harmful to aquatic life. Components of this product have been identified as having potential environmental concerns

Environmental effects

Ecotoxicity –Freshwater Fish Species Data

Ethyl alcohol	64-17-5	96 Hr LC50 rainbow trout (30 days old) : 12900 mg/L (flow-through); 24 Hr LC50 fingerling trout: 11200 mg/L; 96 Hr LC50 fathead minnow: 14200 mg/L (flow-through)
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Ecotoxicity- Microtox Data

Ethyl alcohol	64-17-55	Min EC50 Photobacterium phosphoreum: 35470 mg/L; 30 min EC50 Photobacterium phosphoreum : 34634 mg/L
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13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: Empty containers must not be burned because of explosion hazard. Dispose of in accordance with Local Authority requirements.

14. TRANSPORT INFORMATION:

GENERAL: LIMITED QUANTITIES derogation applies to volumes under 1Lt

LABEL FOR CONVEYANCE:



Department of Transportation (DOT) Requeriments:

Basic shipping requirements:
Proper shipping name Aerosols, flammable
Hazard class 2.1
UN number 1950
Additional information:
ERG code 10 L

IATA

Basic shipping requirements:
Proper shipping name Aerosols, flammable
Hazard class 2.1
UN number 1950
Packaging instructions 203

IMDG

Basic shipping requirements:
Proper shipping name AEROSOLS , flammable
Hazard class 2
UN number 1950
Additional information:
Marine pollulant: Yes
Transport Category 2
EmS No.: F-D, S-U

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:

**RISK PHRASES:** R-12 Extremely flammable.

SAFETY PHRASES: S-2 Keep out of reach of children.
 S-16 Keep away from sources of ignition - No Smoking.
 S-25 Avoid contact with eyes.

ENVIRONMENTAL LISTING: Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980.

EU DIRECTIVES: 75/324/CEE and 94/1/CEE regulation of Sprays
 76/768/CEE regulation of cosmetics products

16. OTHER INFORMATION:

ISSUED BY: P.Chiva
REV. No./REPL. SDS GENERATED: 1/
MSDS No.: 9.016-2
SAFETY DATA SHEET STATUS: Approved.
DATE: 18/04/2006