

EC - SAFETY DATA SHEET
Product Identification **Kimodens Spray**

1. Product identification and manufacturer

- 1.1 Product information**
Commercial product name **Kimodens Spray**
- 1.2 Manufacturer's name/Supplier**
Manufacture / Supplier **Kimoto Ltd**
Addressee **Schwamendingenstr. 5**
CH - 8050 Zürich
Telephone / Telefax **+41 1 211 4747 / +41 1 311 40 31**
Information **Phone no.**
- 1.2 Emergency phone numbers**
Emergency phone no. CH **Emergency phone no.**
Swiss TOX Center 01 251 51 51

2. Product characterisation

2.1 Chemical composition	CAS-N	EC-No	Identification	Prop (%)	Code	R-Codes
	64-17-5	603-002-00-5	Ethanol	20	F	11
	79-01-6	602-027-00-9	Trichlorethylene	50	Xn	40
	106-97-8	601-400-00-0	Butane	30	F	12

Further information

Delivery form: Spray

3. Potential dangers

- 3.1 Human being**
Processing the substance can result in formation of explosive vapour/air mixtures. Do not breathe vapour. Contact with eyes or skin can result in irritation.
- 3.2 Environmental**
Do not empty into drains or sewers

4. First aid - Measures

- 4.1 Inhalation**
Bring out of area of risk and supply plenty of fresh air. Seek medical advice.
- 4.2 Skin contact**
Wash with plenty of water and soap
- 4.3 Eye contact**
Rinse immediately with plenty of water. Seek medical advice.
- 4.4 Ingestion**
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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5. Measures in case of fire

- 5.1 **Suitable extinguish media:** Foam CO2 dry fire extinguisher water
- 5.2 **Not to be used as extinguishing media:**
- 5.3 **Unusual fire / explosion hazards or hazardous decomposition products:**
Toxic gases can result from thermal decomposition of halogenated solvents.
- 5.4 **Special protective equipment for fire combat**
Use self contained air supply for respiratory assistance and wear protective clothing to avoid contact with eyes and skin.

6. Measure in case of accidental release

- 6.1 **Human related safety purposes**
see 8.3 "Personal protective equipment"
- 6.2 **Environmental protection measures and cleaning**

7. Handling and Storage procedures

- 7.1 **Handling**
- 7.1.1 Information for secure handling
Seek good ventilation when processing the substance
- 7.1.2 Information for fire and explosion protection
Keep away from sources of ignition - No smoking
- 7.2 **Storage**
- 7.2.1 Requirements on storage rooms and containers
Keep container tightly closed in a well ventilated and cool place. Avoid direct contact with sun rays.
- 7.2.2 Incompatible products
Avoid contact with oxidising substances
- 7.2.3 Further information / Storage classification

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8. Working place safety and personal protective equipments

8.1 Additional hints for design of working places

Prepare personal protective equipment, see 8.3

8.2 Substances with working place related limits, to be controlled

CAS-No.	Characterisation	Type	Value	Unit
106-97-8	Butane	MAK	2'350	mg/m ³
64-17-5	Ethanol	MAK	1'900	mg/m ³
79-01-6	Trichlorethylene	MAK	270	mg/m ³

8.3 Personal protective equipments

8.3.1 Industrial hygiene and general protective measurements

Direct Spray away fro body. Do not breathe vapour. Contaminated clothing should be removed from skin which has come in contact washed with soap and water.

8.3.2 Respiratory protection

8.3.3 Hand protection
Protective gloves

8.3.4 Eye protection
Protective glasses

8.3.5 Body protection

9. Physical and Chemical Properties

9.1 Appearance

9.1.1 **Form:** Aerosol

9.1.2 **Colour:** colourless

9.1.3 **Odour** alcohol/trichlor

9.2 Safety related information

9.2.1 Boiling point/range (°C)		Melting point/range (°C)	
9.2.2 Flash Point (°C)	14	in closed melting pot (°C)	
9.2.3 pH-Value, conc.		pH-Value, 1% in water	
9.2.4 Inflammability(EG A10/A 13)	yes		
9.2.5 Ignition temperature (°C)	>300		
9.2.6 Self ignition (EGA16)			
9.2.7 Fire supporting characteristics			
9.2.8 Danger of explosion	yes		
9.2.9 Explosion limits (Vol % lower)	4,3	(Vol % upper)	7,0
9.2.10 Thermal decomposition (°C)			

9.3 Other characteristics

9.3.1 Density(g/ml)		1,11	
9.3.2 Solubility			insoluble in water
9.3.3 Vapor pressure (mbar)			70
9.3.4 Vapor density (Air=1)			
9.3.5 Distribution coefficient n-Octanol/H ₂ O			
9.3.6 Viscosity			
9.3.7 Solvent separation test			
9.3.8 Solvent concentration (Gew.%)			100
9.3.9 Evaporation number			
9.3.10 Chem. Oxygen Demand COD (mg/l)			
9.3.11 Biochem. Oxygen demand BOD ₅ (mg/l)			

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10. Stability and Reactions

- 10.1 Conditions to avoid**
see point 7 "Handling and storage procedures"
- 10.2 Substances to keep away from**
- 10.3 Hazardous decomposition products**
Decomposition products of chlorinated solvent

11. Information on toxicity

- 11.1 Acute toxicity**
LcLo ihl man 2'900 ppm
LD50 orl mus 2'400 mg/mg
- 11.2 Subacute to chronic toxicity**
Possible risk of irreversible effects (Trichlorethylene)
- 11.3 Experience on human being / other information**

12. Information on ecological effects

- 12.1 Information about degradation**
- 12.1 Influence on biological sewage treatment plants**
- 12.3 Other information**

13. Disposal

- 13.1 Recommendation for product rests**
Dispose as organic chlorinated substance.
Dispose in compliance with applicable local, county, state or federal regulations regarding health and environment.
- 13.2 Recommendation for contaminated packing material**
Dispose in compliance with applicable local, county, state or federal regulations regarding health and environment.

14. Information on transport

- 14.1 Transport on road**
ADR/RID/GGVS/GGVE class No/Letter
Correct technical declaration
- 14.2 Transport by ship**
IMDG/GGVSea-Class 3.3 UN-No.: 3066
EmS-No MFAG:
Marine pollutant:
Correct technical declaration
- 14.3 Air transport**
ICAO/IATA - Class UN/ID-No.:
Correct technical declaration Aerosol, highly inflammable, containing chlorinated organic solvent

15. Regulations

15.1 Declaration

Safety symbols F /Xn Safety declaration Highly Flammable low toxicity /

Compounds

Ethanol/Butane (highly inflammable)

Trichlorethylene (low toxicity)

R-codes

12 Highly inflammable

40 Possible risk of irreversible effects

S-codes

7/9 Keep container tightly closed in a well ventilated place

16 Keep away from sources of ignition - No smoking

23.2 Do not breathe vapour

33 Take precautionary measures against static discharges

36/37 Irritating to eyes and respiratory organs

Special declarations

15.2 National declarations

16. Further Information

This information is based on the knowledge and experience made until the date of the elaboration of this document, without any guarantee related to the products characteristics