

SAFETY DATA SHEET BRILLUX

1) IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Commercial name BRILLUX
Company name KLINDEX srl via Vallone 16 65024 Manoppello (PE)
ITALIA

Tel ++39-085.859800 fax ++39-085- 8599224

2) COMPOSITION / INFORMATION ON INGREDIENTS

It contains:

Name	Concentr. (C)	Grading
METHYLETILCHETONE	10,00 ≤ C ≤ 12,00	
CAS NO: 78-93-3		
EEC NO: 201-159-0		
Classification: Xi R36/37		
PERCHLOROETHYLENE	67,00_c_ 72,00	Xn R40 N R51/53
CAS NO: 127-18-4		
EEC NO: 204-825-9		

R10 INFLAMMABLE
R22 TOXIC BY INGESTION
R37 IRRITANT TO THE RESPIRATORY WAYS
R51/53 TOXIC TO AQUATIC ORGANISMS, IT MAY PROVOKE
LONG-TERM NEGATIVE EFFECTS ON THE AQUATIC
ENVIRONMENT
R40 POSSIBILITY OF IRREVERSIBLE EFFECTS

3) HAZARDS IDENTIFICATION

INFLAMMABLE. TOXIC BY INGESTION. IRRITANT TO RESPIRATORY TRACT. POSSIBILITY OF IRREVERSIBLE EFFECTS. TOXIC TO AQUATIC ORGANISM, MAY PROVOKE LONG-TERM NEGATIVE EFFECTS ON THE AQUATIC ENVIRONMENT.

4) FIRST AID MEASURES

General warnings:

Do not dry contaminated clothes near to a burning heat or white-hot source.

Bring contaminated clothes in the open air

Eyes: Wash carefully and generously water for at least 15 minutes. See a eye specialist

Skin: Remove contaminated clothes and take a shower. Call a doctor in case of persisting pain.

Inhalation: Bring the person in the open air; if it becomes hard to breathe or breathing stops, act with artificial respiration. Call a doctor in case of respiratory or nervous symptoms.

Ingestion: Immediately call a doctor. Do not cause vomit, nor give anything not specially authorized by the doctor.

5) FIRE-FIGHTING MEASURES

Idoneous fire-fighting measures: Foam, Powder, CO₂, nebulized water

6) ACCIDENTAL RELEASE MEASURES

Extinguish the source of fire or heat; cover the leakages with absorbent material; Ventilate rooms. Avoid throwing product on sewers or adjoining places. Pour everything in a container, compatible with the product, close and label.

7) HANDLING AND STORAGE

Carry out industrial operations in a closed circuit. For carriage/ pouring off and product handling do not use compressed air. Pouring off with pump or for gravity. Store in airy and cool place, away from direct rays of sun. Do not use flames or sparks. Inform staff about the product dangers.

8) EXPOSURE CONTROLS/ PERSONAL PROTECTION

PERCHLOROETHYLENE

. TLV TWA 170,000 mg/m³ ACGIH

. TLV STEL 685,000 mg/m³ ACGIH

METHYLETILCHETONE

. TLV TWA 590,000 mg/m³ ACGIH

SOLVESSO 100

. TLV TWA 250,000 mg/m³ ACGIH

Breathing protection: In case of exhalations, facial mask with type A filter. Air aqualung in the following cases: closed place/insufficient

oxygen / heavy exhalations in case facial mask is insufficient.

Hands protection: Protection gloves resistant to chemical agents (polyvinyl alcohol, viton).

Eye protection: Wear protection eyeglasses during any industrial operation.

Skin protection: Neoprene Suit/boots, in case of risk of spill.

Specific hygienic measures: Eye washing

9) PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour :	Colourless
Smell :	Chloroform like
Point of inflammability:	12° C
Solubility:	water insoluble
Specific weight:	25°C 1,180 kg/l

10) STABILITY AND REACTIVITY

This product is stable on normal use and stocking conditions. In case of thermal decomposition or in case of fire some vapours can be released potentially dangerous for health. Plastic materials deteriorate.

Perchloroethylene: in case of decomposition some vapours can be released: hydrochloric acid, carbon monoxide, phosgene.

Methyletilketone: it reacts with light metal, like aluminium and with strong oxidants; it etches different kind of plastic.

11) TOXICOLOGICAL INFORMATION

This product is carcinogen with cat. 3 (CEE), therefore it must be considered suspected for its possible carcinogen effects on human being.

Perchloroethylene: - LD50 oral rat : 2000 mg/Kg
- LC50 rat inhalation: 5000 ppm/4h

Not dangerous during normal handling and usage conditions: Irritant effects on skin and eyes. Risks of effects on nervous, renal and hepatic system. Carcinogen effect on men not showed on man.

12) ECOLOGICAL INFORMATION

Toxic for aquatic organisms. But environment danger is limited according to the product properties: low biological magnification potential, high volatility, biodegradability, low persistence.

13) DISPOSAL CONSIDERATIONS

Waste disposal

Local and national norms apply.

See manufacturer for recycling.

Send the product to an authorised incineration plant for toxic noxious products. Incinerator must be provided from a neutralization system or hydrochloric acid recovery.

Packages and containers treatment

Wash packages with few volatile Hydrocarbon, treat effluents as waste.

Packages that cannot be cleaned must be treated as waste.

14) TRANSPORT INFORMATION

ROAD TRANSPORT

ONU UN 1993 inflammable liquid n.a.s. (it contains methylacetone), "special arrangements 640D: 50° vapor pressure inferior to 110 kPa

Class 3 , F1, II, ADR

TRANSPORT BY SEA

CODE UN 1993 inflammable liquid n.a.s. (it contains methylacetone)

Class 3 PACKING GROUP II PACKING INST. Y305 Accessory risks:-

TRANSPORT BY AIR

CODE UN 1993 inflammable liquid n.a.s. (it contains methylacetone)

Class 3 P.G. II PACKING INST. Y305 Accessory risks:-

15) REGULATORY INFORMATION

Symbol of health hazard: Xn NOXIOUS F Easily inflammable N

Dangerous for environment

- R11 EASELY INFLAMMABLE
- R22 NOXIOUS BY INGESTION
- R37 IRRITANT TO RESPIRATORY WAYS
- R40 POSSIBILITY OF IRREVERSIBLE EFFECTS
- R51/53 TOXIC TO AQUATIC ORGANISM , MAY PROVOKE
NEGATIVE LONG-TERM EFFECTS TO THE AQUATIC
ENVIRONMENT
- S23 DO NOT BREATH VAPOURS
- S24 AVOID CONTACT WITH SKIN
- S36/37 USE PROTECTIVE CLOTHES AND ADEQUATE GLOVES
- S43 IN CASE OF FIRE USE ADEQUATE TOOLS AS REFERENCE
IN CAP 5 OF THIS SHEET
- S57 USE ADEQUATE CONTAINERS TO AVOID
ENVIRONMENTAL POLLUTION
- S60 THIS PRODUCT AND ITS CONTAINERS SHOULD BE
DISPOSED AS HAZARDOUS WASTE
- S61 DO NOT CAST AWAY ON THE ENVIRONMENT . REFER TO
THE SPECIAL INSTRUCTIONS/ SAFETY INFORMATION

DATA SHEETS

It contains: PERCHLOROETHYLENE

16) OTHER INFORMATION

- NO FURTHER INDICATION

Revised sheet 01/09/04