

1 Identification

· Product identifier

- Product number LRA870
- Trade name: **Glossy clear PE topcoat**
- Relevant identified uses of the substance or mixture and uses advised against
Paint and relative material only for wood
- Application of the substance / the mixture For professional use

· Details of the supplier of the safety data sheet

- Manufacturer/Supplier:
IVM Chemicals srl
Viale della Stazione 3 - 27020 Parona (PV) Italy tel +39 038425441
- Information department:
Environmental Health and safety office
hseoffice@ivmchemicals.com
- Emergency telephone number:
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labeling:

styrene
4-methylpentan-2-one
toluene

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· **Hazard statements**

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

· **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 1

Fire = 4

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = *1

Fire = 4

Reactivity = 0

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.



· **Dangerous components:**

100-42-5	styrene	30-49.9%
	Flam. Liq. 3, H226 Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	
141-78-6	ethyl acetate	2.5-4.99%
	Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	
108-10-1	4-methylpentan-2-one	1-2.49%
	Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
108-88-3	toluene	1-2.49%
	Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Chronic 3, H412	

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78-93-3	butanone	(Contd. of page 2)
	 Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336	1-2.49%

4 First-aid measures

· Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary). Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist , consult a doctor.

· After swallowing: Do not induce vomiting; immediately call for medical help.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by substances, refer to Section 11.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents: Alcohol resistant foam, CO, powder, water spray/mist.

· For safety reasons unsuitable extinguishing agents:

Do not use a jet water stream as it may scatter and spread fire.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

· Advice for firefighters

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

· Protective equipment:

Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

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· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to Section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

· **Reference to other sections**

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool, well-ventilated area, away from heat and sources of ignition
Provide solvent resistant, sealed floor.
Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
In cases where there is no reported expiration date, it means that the product must be used within 8 months.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

· **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

100-42-5 styrene

PEL	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
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REL Short-term value: 425 mg/m , 100 ppm
 Long-term value: 215 mg/m , 50 ppm

TLV Short-term value: 170 mg/m , 40 ppm
 Long-term value: 85 mg/m , 20 ppm
 BEI

141-78-6 ethyl acetate

PEL Long-term value: 1400 mg/m , 400 ppm

REL Long-term value: 1400 mg/m , 400 ppm

TLV Long-term value: 1440 mg/m , 400 ppm

108-10-1 4-methylpentan-2-one

PEL Long-term value: 410 mg/m , 100 ppm

REL Short-term value: 300 mg/m , 75 ppm
 Long-term value: 205 mg/m , 50 ppm

TLV Short-term value: 307 mg/m , 75 ppm
 Long-term value: 82 mg/m , 20 ppm
 BEI

108-88-3 toluene

PEL Long-term value: 200 ppm
 Ceiling limit value: 300; 500* ppm
 *10-min peak per 8-hr shift

REL Short-term value: 560 mg/m , 150 ppm
 Long-term value: 375 mg/m , 100 ppm

TLV Long-term value: 75 mg/m , 20 ppm
 BEI

78-93-3 butanone

PEL Long-term value: 590 mg/m , 200 ppm

REL Short-term value: 885 mg/m , 300 ppm
 Long-term value: 590 mg/m , 200 ppm

TLV Short-term value: 885 mg/m , 300 ppm
 Long-term value: 590 mg/m , 200 ppm
 BEI

· Ingredients with biological limit values:**100-42-5 styrene**

BEI 400 mg/g creatinine
 Medium: urine
 Time: end of shift
 Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)

0.2 mg/L
 Medium: venous blood
 Time: end of shift
 Parameter: Styrene (semi-quantitative)

108-10-1 4-methylpentan-2-one

BEI 1 mg/L
 Medium: urine
 Time: end of shift
 Parameter: MIBK

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108-88-3 toluene

BEI 0.02 mg/L
Medium: blood
Time: prior to last shift of workweek
Parameter: Toluene

0.03 mg/L
Medium: urine
Time: end of shift
Parameter: Toluene

0.3 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: o-Cresol with hydrolysis (background)

78-93-3 butanone

BEI 2 mg/L
Medium: urine
Time: end of shift
Parameter: MEK

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:

Fluid

· Color:

According to product specification

· Odor:

Characteristic

· Odour threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

77 °C (171 °F)

· Flash point:

-4 °C (25 °F)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

> 370 °C (> 698 °F)

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not selfigniting.

· Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· Explosion limits:

· Lower:

1.2 Vol %

· Upper:

11.5 Vol %

· Vapor pressure at 20 °C (68 °F):

105 hPa (79 mm Hg)

· Density at 20 °C (68 °F):

1.029 g/cm (8.587 lbs/gal)

· Relative density

Not determined.

· Vapour density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with

· Water:

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

· Dynamic:

Not determined.

· Kinematic at 20 °C (68 °F):

40 s (ISO 4 mm)

· Oxidising properties:

N.A.

· Solvent content:

· VOC content:

44.6 %

459.6 g/l / 3.84 lb/gl

· Solids content:

91.0 %

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Other information (HAPS)

100-42-5	styrene	30-49.9%
108-10-1	4-methylpentan-2-one	1-2,49%
108-88-3	toluene	1-2,49%
111-90-0	2-(2-ethoxyethoxy)ethanol	<0.01%
79-10-7	acrylic acid	<0.01%

Other information

No further relevant information available.

10 Stability and reactivity

- Reactivity** typical of the product as indicated in the data sheet

- Chemical stability**

Polymerise spontaneously, if not inhibited, with rapid increase of temperature. In closed containers, has also rapid increase of pressure. Polymerise violently with reaction that can be explosive by the action of light, heat, strong acids or peroxides. Presence of inhibitors reduces - but does not eliminate - the tendency to polymerization.

- Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 °C

- Possibility of hazardous reactions**

Exothermic polymerization.

Reacts with acids, alkalis and oxidizing agents.

Vapours may form explosive mixtures with air

- Conditions to avoid**

Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 °C

- Incompatible materials:** Acids, alkalis and oxidizing agents

- Hazardous decomposition products:**

in case of possible formation of combustion:

Carbon monoxide and carbon dioxide

11 Toxicological information

- Information on toxicological effects** Suspected of damaging fertility or the unborn child.

- Acute toxicity:**

- LD/LC50 values that are relevant for classification:**

100-42-5 styrene

Oral	LD50	5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Inhalative	LC50/4 h	11.8 mg/l (rat/szczur/mouse/souris/Maus/ratón)

141-78-6 ethyl acetate

Oral	LD50	4934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Dermal	LD50	20001 mg/kg (Con)
Inhalative	LC0	22.6 ppm (mouse)
	LC50/4 h	1600 mg/l (rat/szczur/mouse/souris/Maus/ratón)

108-10-1 4-methylpentan-2-one

Oral	LD50	2080 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	16000 mg/kg (rab)

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Inhalative	LC50/4 h	16.6 mg/l (rat/szczur/mouse/souris/Maus/ratón)
108-88-3 toluene		
Oral	LD50	5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	12124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)
78-93-3 butanone		
Oral	LD50	2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	5001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50	21 mg/l (rat/szczur/mouse/souris/Maus/ratón)

· **Primary irritant effect:**

· **on the skin:**

Irritant to skin and mucous membranes.
Causes skin irritation.

· **on the eye:**

Irritating effect.
Causes serious eye irritation.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

Causes skin irritation.
Causes serious eye irritation.
Suspected of damaging the unborn child.
May cause respiratory irritation.
Causes damage to the hearing organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.
Harmful
Irritant

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
100-42-5	styrene	2B
108-10-1	4-methylpentan-2-one	2B
67-63-0	propan-2-ol	3

· NTP (National Toxicology Program)		
100-42-5	styrene	30-49.9%

· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

12 Ecological information

· **Toxicity**

· <i>Aquatic toxicity:</i>	
100-42-5 styrene	
EC50	4.9 mg/l (algae) (72 h) 4.7 mg/l (daphnia) (48 h)
LC50 (96h)	4.02 mg/l (Fish)
141-78-6 ethyl acetate	
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)

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108-10-1 4-methylpentan-2-one

EC50 101 mg/l (daphnia) (48 h)

LC50 (96h) 101 mg/l (Fish)

108-88-3 toluene

EC50 134 mg/l (algae) (3 h)

3.78 mg/l (daphnia) (48 h)

58 mg/l (Fish)

78-93-3 butanone

EC50 2029 mg/l (algae) (96 h)

308 mg/l (daphnia) (48 h)

LC50 (96h) 2993 mg/l (Fish)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential** No further relevant information available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
 - **General notes:**
 - Water hazard class 2 (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation:**
 - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 - Hand over to hazardous waste disposers.
 - Dispose of contents and container in accordance with local state and federal regulations.
- **Uncleaned packagings:**
 - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|--------|
| · UN-Number | |
| · DOT | NA1263 |
| · IMDG, IATA | UN1263 |
| · UN proper shipping name | |
| · DOT | Paint |
| · IMDG, IATA | PAINT |

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· **Transport hazard class(es)**

· **DOT**



· Class	3 Flammable liquids
· Label	3
· Class	3 Flammable liquids
· Label	3

· **IMDG, IATA**



· Class	3 Flammable liquids
· Label	3

· **Packing group**

· DOT, IMDG, IATA	II
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· **Environmental hazards:**

· Marine pollutant:	No
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· **Special precautions for user**

Warning: Flammable liquids

· Danger code (Kemler):	33
· EMS Number:	F-E, S-E

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

Not applicable.

· **Transport/Additional information:**

· **IMDG**

· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":**

UN1263, Paint, special provision 640D, 3, II

15 Regulatory information

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

Requirements of Federal Register

· **SARA**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings) :**

100-42-5 styrene	30-49.9%
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108-10-1	4-methylpentan-2-one	1-2,49%
108-88-3	toluene	1-2,49%
78-93-3	butanone	1-2,49%
67-63-0	propan-2-ol	0.1-<0.5%
1338-02-9	Naphthenic acids, copper salts	<0.01%
79-10-7	acrylic acid	<0.01%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

108-10-1	4-methylpentan-2-one	*	1-2,49%
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· **Chemicals known to cause reproductive toxicity for females:**

108-88-3	toluene	1-2,49%
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· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

108-10-1	4-methylpentan-2-one	1-2,49%
108-88-3	toluene	1-2,49%

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

108-10-1	4-methylpentan-2-one	I	1-2,49%
108-88-3	toluene	II	1-2,49%
78-93-3	butanone	I	1-2,49%

· **TLV (Threshold Limit Value established by ACGIH)**

100-42-5	styrene	A4
108-88-3	toluene	A4
67-63-0	propan-2-ol	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **National regulations:**

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** IVM Chemicals Srl

· **Contact:** See emergency phone

· **Date of preparation / last revision** 09/18/2015 / 30

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

• **Sources**

Directive 1999/45/EC and following amendments

Directive 67/548/EEC and following amendments and adjustments

Agency ECHA web site

INRS Fiche Toxicologique

IARC International agency for research on cancer

• * **Data compared to the previous version altered.**