

# ILPA ADESIVI SRL

## EXTRA WAX - EXTRA WAX SOLIDA

Revision nr.1  
Dated 17/12/2013  
Printed on 17/12/2013  
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EN

### Safety Data Sheet

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Code: EXTRA WAX  
Product name: EXTRA WAX SOLIDA

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: EXTRA WAX Solida

##### 1.3. Details of the supplier of the safety data sheet

Name: ILPA ADESIVI SRL  
Full address: Via Ferorelli, 4  
District and Country: 70123 BARI (BARI)  
ITALIA  
Tel. 0805383837  
Fax 0805377807  
e-mail address of the competent person responsible for the Safety Data Sheet: aborricelli@ilpa.it

##### 1.4. Emergency telephone number

For urgent inquiries refer to: 3355405598

#### 2. Hazards identification.

##### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

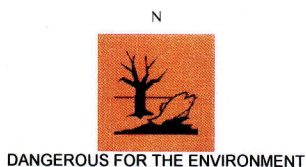
Danger Symbols: Xn-N

R phrases: 40-51/53

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

##### 2.2. Label elements.

Hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.



**R40** LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.  
**R51/53** TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**S29** DO NOT EMPTY INTO DRAINS.  
**S36/37** WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.  
**S61** AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

**Contains:** TETRACHLOROETHYLENE

**EXTRA WAX - EXTRA WAX SOLIDA****2.3. Other hazards.**

Information not available.

**3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

**3.2. Mixtures.****Contains:**

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
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**TETRACHLOROETHYLENE**

CAS. 127-18-4 74 - 78

Carc. Cat. 3 R40, N R51/53

Carc. 2 H351, Aquatic Chronic 2 H411

EC. 204-825-9

INDEX. 602-028-00-4

**INERT**

CAS. - 24 - 25.5

EC. -

INDEX. -

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

**4. First aid measures.****4.1. Description of first aid measures.**

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms and effects, both acute and delayed.**

For symptoms and effects caused by the contained substances see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.**

Follow doctor's orders.

**5. Firefighting measures.****5.1. Extinguishing media.****SUITABLE EXTINGUISHING MEDIA**

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

**EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS**

None in particular.

**5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

**5.3. Advice for firefighters.****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.



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### 6. Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet.

#### 6.2. Environmental precautions.

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

#### 6.3. Methods and material for containment and cleaning up.

Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

### 7. Handling and storage.

#### 7.1. Precautions for safe handling.

Do not smoke while handling and use.

#### 7.2. Conditions for safe storage, including any incompatibilities.

Store in a well ventilated place, keep far away from sources of heat, bright flames and sparks and other sources of ignition.

#### 7.3. Specific end use(s).

Information not available.

### 8. Exposure controls/personal protection.

#### 8.1. Control parameters.

Name	Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	
TETRACHLOROETHYLENE	TLV-ACGIH			25		100	Skin
	OEL	IRL		25			Skin
	WEL	UK		50		100	Skin

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

##### HAND PROTECTION

Protect hands with category III (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVA, butyl, fluoroelastomer or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

##### EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166).

##### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

##### RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half

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mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

The product must be used in a closed cycle, in well-aired environments fitted with strong localised aspiration systems (capture speed > 1.5 m/s), otherwise it is compulsory to use the personal protection equipment indicated and always in well-aired environments fitted with strong localised aspiration systems (capture speed > 1.5 m/s).

### 9. Physical and chemical properties.

#### 9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	colourless
Odour	Clorurato
Odour threshold.	Not available.
pH.	Not available.
Melting or freezing point.	Not available.
Boiling point.	Not available.
Distillation range.	Not available.
Flash point.	> 60 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Specific gravity.	Not available.
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available.
Ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Reactive Properties	Not available.

#### 9.2. Other information.

VOC (Directive 1999/13/EC) :	75.00 %
VOC (volatile carbon) :	10.85 %

### 10. Stability and reactivity.

#### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

TETRACHLOROETHYLENE: incombustible, however it decomposes above 150°C. Decomposition also occurs due to the action of UV rays and moisture.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

TETRACHLOROETHYLENE: risk of explosion on contact with: alkaline metals, aluminium, alkaline hydroxides, sodium amide. May react violently on contact with: strong bases, strong oxidising agents, alkaline earth metals, light metals, metal powders and zinc oxide.

#### 10.4. Conditions to avoid.

None in particular, however the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials.

Information not available.

#### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

TETRACHLOROETHYLENE: hydrogen chloride, phosgene, chlorine, ethane tetrachloride, other toxic chlorine compounds.



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### 11. Toxicological information.

#### 11.1. Information on toxicological effects.

This product must be handled carefully because of its possible carcinogenic effects. Anyway, currently available data do not allow us to comprehensively assess this product.

TETRACHLOROETHYLENE: has a toxic effect on the central and peripheral nervous system, liver, kidneys and heart. Mucous membranes and skin are affected by its irritant effect.

TETRACHLOROETHYLENE

LC50 (Inhalation): 4000 ppm/4h Rat

### 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.

#### 12.1. Toxicity.

TETRACHLOROETHYLENE

EC50 (48h): 18 mg/l/48h Daphnia magna

#### 12.2. Persistence and degradability.

TETRACHLOROETHYLENE: not easily biodegradable.

#### 12.3. Bioaccumulative potential.

TETRACHLOROETHYLENE: low bioaccumulation potential (log Ko/w>3).

#### 12.4. Mobility in soil.

TETRACHLOROETHYLENE: slightly mobile in soil.

#### 12.5. Results of PBT and vPvB assessment.

Information not available.

#### 12.6. Other adverse effects.

Information not available.

### 13. Disposal considerations.

#### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

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### Road and rail transport:

ADR/RID Class: 6.1 UN: 1897  
Packing Group: III  
Label: 6.1  
Nr. Kemler: 6.1  
Proper Shipping Name: TETRACHLOROETHYLENE



### Carriage by sea (shipping):

IMO Class: 6.1 UN: 1897  
Packing Group: III  
Label: 6.1  
Marine Pollutant: NO  
Proper Shipping Name: TETRACHLOROETHYLENE



### Transport by air:

IATA: 6.1 UN: 1897  
Packing Group: III  
Label: 6.1  
Proper Shipping Name: TETRACHLOROETHYLENE



## 15. Regulatory information.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. 9ii

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

## 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

**Carc. 2** Carcinogenicity, category 2  
**Aquatic Chronic H351** Hazardous to the aquatic environment, chronic toxicity category 2  
Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
**H411** Toxic to aquatic life with long lasting effects.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

**R40** LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.  
**R51/53** TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

### GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments

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2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. - 10th Edition
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.



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### Safety Data Sheet

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Code: EXTRA WAX  
Product name: EXTRA WAX SOLIDA

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: EXTRA WAX Solida

##### 1.3. Details of the supplier of the safety data sheet

Name: ILPA ADESIVI SRL  
Full address: Via Ferorelli, 4  
District and Country: 70123 BARI (BARI)  
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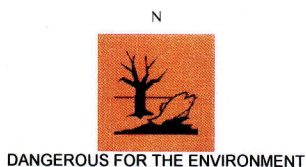
Danger Symbols: Xn-N

R phrases: 40-51/53

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

##### 2.2. Label elements.

Hazard labelling pursuant to Directives 67/548/EEC and 1999/45/EC and subsequent amendments and supplements.



R40  
R51/53  
S29  
S36/37  
S61

LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.  
TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.  
DO NOT EMPTY INTO DRAINS.  
WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.  
AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

Contains: TETRACHLOROETHYLENE



**EXTRA WAX - EXTRA WAX SOLIDA****2.3. Other hazards.**

Information not available.

**3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

**3.2. Mixtures.****Contains:**

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
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**TETRACHLOROETHYLENE**

CAS. 127-18-4 74 - 78 Carc. Cat. 3 R40, N R51/53

EC. 204-825-9

INDEX. 602-028-00-4

Carc. 2 H351, Aquatic Chronic 2 H411

**INERT**

CAS. - 24 - 25.5

EC. -

INDEX. -

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

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**4. First aid measures.****4.1. Description of first aid measures.**

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

**4.2. Most important symptoms and effects, both acute and delayed.**

For symptoms and effects caused by the contained substances see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.**

Follow doctor's orders.

**5. Firefighting measures.****5.1. Extinguishing media.****SUITABLE EXTINGUISHING MEDIA**

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

**EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS**

None in particular.

**5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

**5.3. Advice for firefighters.****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

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### 6. Accidental release measures.

#### 6.1. Personal precautions, protective equipment and emergency procedures.

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The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

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#### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

### 7. Handling and storage.

#### 7.1. Precautions for safe handling.

Do not smoke while handling and use.

#### 7.2. Conditions for safe storage, including any incompatibilities.

Store in a well ventilated place, keep far away from sources of heat, bright flames and sparks and other sources of ignition.

#### 7.3. Specific end use(s).

Information not available.

### 8. Exposure controls/personal protection.

#### 8.1. Control parameters.

Name	Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	
TETRACHLOROETHYLENE	TLV-ACGIH			25		100	Skin
	OEL	IRL		25			Skin
	WEL	UK		50		100	Skin

#### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent. If such operations do not make it possible to keep the concentration of the product below the permitted workplace exposure thresholds a suitable respiratory tract protection must be used. See product label for hazard details during use. Ask your chemical substance suppliers for advice when choosing personal protection equipment. Personal protection equipment must comply with the rules in force indicated below.

##### HAND PROTECTION

Protect hands with category III (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVA, butyl, fluoroelastomer or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

##### EYE PROTECTION

Wear protective airtight goggles (ref. standard EN 166).

##### SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

##### RESPIRATORY PROTECTION

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an A or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half



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mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

The product must be used in a closed cycle, in well-aired environments fitted with strong localised aspiration systems (capture speed > 1.5 m/s), otherwise it is compulsory to use the personal protection equipment indicated and always in well-aired environments fitted with strong localised aspiration systems (capture speed > 1.5 m/s).

### 9. Physical and chemical properties.

#### 9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	colourless
Odour	Clorurato
Odour threshold.	Not available.
pH.	Not available.
Melting or freezing point.	Not available.
Boiling point.	Not available.
Distillation range.	Not available.
Flash point.	> 60 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Specific gravity.	Not available.
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available.
Ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Reactive Properties	Not available.

#### 9.2. Other information.

VOC (Directive 1999/13/EC) :	75.00 %
VOC (volatile carbon) :	10.85 %

### 10. Stability and reactivity.

#### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

TETRACHLOROETHYLENE: incombustible, however it decomposes above 150°C. Decomposition also occurs due to the action of UV rays and moisture.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

TETRACHLOROETHYLENE: risk of explosion on contact with: alkaline metals, aluminium, alkaline hydroxides, sodium amide. May react violently on contact with: strong bases, strong oxidising agents, alkaline earth metals, light metals, metal powders and zinc oxide.

#### 10.4. Conditions to avoid.

None in particular, however the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials.

Information not available.

#### 10.6. Hazardous decomposition products.

In the event of thermal decomposition or fire, vapours potentially dangerous to health may be released.

TETRACHLOROETHYLENE: hydrogen chloride, phosgene, chlorine, ethane tetrachloride, other toxic chlorine compounds.

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### 11. Toxicological information.

#### 11.1. Information on toxicological effects.

This product must be handled carefully because of its possible carcinogenic effects. Anyway, currently available data do not allow us to comprehensively assess this product.

TETRACHLOROETHYLENE: has a toxic effect on the central and peripheral nervous system, liver, kidneys and heart. Mucous membranes and skin are affected by its irritant effect.

TETRACHLOROETHYLENE

LC50 (Inhalation): 4000 ppm/4h Rat

### 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.

#### 12.1. Toxicity.

TETRACHLOROETHYLENE

EC50 (48h): 18 mg/l/48h Daphnia magna

#### 12.2. Persistence and degradability.

TETRACHLOROETHYLENE: not easily biodegradable.

#### 12.3. Bioaccumulative potential.

TETRACHLOROETHYLENE: low bioaccumulation potential (log Ko/w>3).

#### 12.4. Mobility in soil.

TETRACHLOROETHYLENE: slightly mobile in soil.

#### 12.5. Results of PBT and vPvB assessment.

Information not available.

#### 12.6. Other adverse effects.

Information not available.

### 13. Disposal considerations.

#### 13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.



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### Road and rail transport:

ADR/RID Class: 6.1 UN: 1897  
Packing Group: III  
Label: 6.1  
Nr. Kemler: 6.1  
Proper Shipping Name: TETRACHLOROETHYLENE



### Carriage by sea (shipping):

IMO Class: 6.1 UN: 1897  
Packing Group: III  
Label: 6.1  
Marine Pollutant: NO  
Proper Shipping Name: TETRACHLOROETHYLENE



### Transport by air:

IATA: 6.1 UN: 1897  
Packing Group: III  
Label: 6.1  
Proper Shipping Name: TETRACHLOROETHYLENE



## 15. Regulatory information.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category. 9ii

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Product.

Point. 3

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

## 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

**Carc. 2** Carcinogenicity, category 2  
**Aquatic Chronic H351** Hazardous to the aquatic environment, chronic toxicity category 2  
Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.  
**H411** Toxic to aquatic life with long lasting effects.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

**R40** LIMITED EVIDENCE OF A CARCINOGENIC EFFECT.  
**R51/53** TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

### GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments

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2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. - 10th Edition
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.