



C.T.S. S.R.L.

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## SAFETY DATA SHEET

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

#### 1.1. Product identifier

Product name GUSTAV BERGER'S 371 (BEVA® 371)

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

Intended use Heat-seal adhesive for the lining of paintings.

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

Name C.T.S. S.r.l.  
Full address VIA PIAVE, 20/22  
District and Country 36077 Altavilla Vicentina (VI)  
Italy  
Tel. +39 0444-349 088  
Fax +39 0444-349 039  
e-mail address of the competent person responsible for the Safety Data Sheet cts.italia@ctseurope.com

#### 1.4. Emergency telephone number

+39 0444 349 088 (Office hours)

### SECTION 2. Hazards identification.

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

The product is classified as hazardous pursuant to the provisions set forth in 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.

##### 2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

###### Hazard classification and indication:

Flam. Liq. 2	H225
Repr. 2	H361d
STOT RE 2	H373
Skin Irrit. 2	H315
STOT SE 3	H336
Aquatic Chronic 2	H411

##### 2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments.

Danger Symbols: F-Xn-N  
R phrases: 11-38-48/20-51/53-Repr. Cat. 3 63-67

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 EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



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SINCERT



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Hazard pictograms:



Signal word: Danger

Hazard statements:

H225	Highly flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements:

P201	Obtain special instructions before use.
P210	Keep away from heat / sparks / open flames / hot surfaces. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P304+P340	IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice / attention.

Contains: TOLUENE

2.3. Other hazards.

Information not available.

## SECTION 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)
<b>TOLUENE</b> CAS. 108-88-3	24-29	Repr. Cat. 3 R63, R67, F R11, Xn R48/20, Xn R65, Xi R38	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
<b>EC. 203-625-9</b> <b>INDEX. 601-021-00-3</b>			
<b>Idrocarburi,C7-C9, isoalcani</b> CAS. -	15-20	R67, F R11, Xn R65, Xi R38, N R51/53	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411
<b>EC. 921-728-3</b> <b>INDEX. -</b> <b>Reg. no. 01-2119471305-42</b>			
<b>NAPHTHA (PETROL.) HYDROTREATED HEAVY</b> CAS. 64742-48-9	10-16	Xn R65, Note P	Asp. Tox. 1 H304, Note P
<b>EC. 265-150-3</b> <b>INDEX. 649-327-00-6</b>			
<b>Idrocarburi,C9-C10,n-alceni,isoalcani,ciclici,aromatici (2-25%)</b> CAS. -	7 - 9	R10, R66, R67, Xn R65, N R51/53	Flam. Liq. 3 H226, Asp. Tox.1 H304,STOT SE 3 H336, Aquatic Chronic 2 H411,EUH066
<b>EC. 927-344-2</b> <b>INDEX.-</b> <b>Reg. no. 01-2119463586-28</b>			

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**Note:** Upper limit is not included into the range.

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

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)

## SECTION 4. First aid measures.

### 4.1. Description of first aid measures.

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. **INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

### 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.

Information not available.

## SECTION 5. Firefighting measures.

### 5.1 Extinguishing media.

#### SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### 5.2. Special hazards arising from the substance or mixture.

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

### 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

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures.

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. 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.



## SECTION 7. Handling and storage

### 7.1 Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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

Information not available.

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters.

Regulatory References:

**United Kingdom:** EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as amended).

**Éire:** Code of Practice Chemical Agent Regulations 2011.

**OEL EU:** Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.

**TLV-ACGIH:** ACGIH 2012

TOLUENE						
Threshold Limit Value.						
Type	Country	TWA/8h		STEL/15min		
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
OEL	EU	192	50	384	100	SKIN
OEL	IRL	192	50	384	100	SKIN
TLV-ACGIH		75.4	20			
WEL	UK	191	50	384	100	SKIN

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

### 8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344).

Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various



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kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

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## SECTION 9. Physical and chemical properties

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

Appearance: gelatinous liquid  
Colour: opalescent  
Odour: characteristic  
Odour threshold. Not available.  
pH.: Not available.  
Melting point / freezing point. Not available.  
Initial boiling point. Not available.  
Boiling range. Not available.  
Flash point.  $21 < ^\circ\text{C}$ .  
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.  
Relative density. Not available.  
Solubility soluble in organic solvents  
Partition coefficient: n-octanol/water Not available.  
Auto-ignition temperature. Not available.  
Decomposition temperature. Not available.  
Viscosity Not available.  
Explosive properties Not available.  
Oxidising properties Not available.

### 9.2. Other information.

VOC (Directive 1999/13/EC) : 100,00 %  
VOC (volatile carbon) : 0

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## SECTION. 10 Stability and reactivity

### Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.  
TOLUENE: breaks down in sunlight.

### 10.2. Chemical stability.

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

### 10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.  
TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

### 10.4. Conditions to avoid.

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

### 10.5. Incompatible materials.

Information not available.

### 10.6. Hazardous decomposition products.

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





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## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product must be handled carefully because of its possible teratogenic effects, which may be toxic and damage the foetus development.

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure and/or may accumulate inside the human body and is thus graded as dangerous.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin.

Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

TOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopathies and polyneuritis). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

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## SECTION 12. Ecological information

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

### 12.1. Toxicity.

Information not available.

### 12.2. Persistence and degradability.

Information not available.

### 12.3. Bioaccumulative potential.

Information not available.

### 12.4. Mobility in soil.

Information not available.

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

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects.

Information not available.

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## SECTION 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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

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## SECTION 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.

### Road and rail transport:

ADR/RID Class: 3 UN: 1263

Packing Group: II

Label: 3

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HIN - Kemler: 33  
Limited Quantities: 5 L  
Tunnel restriction code: (D/E)  
Proper Shipping Name: PAINT RELATED MATERIAL  
Special Provision: 640D

**Carriage by sea (shipping):**

IMO Class: 3 UN: 1263  
Packing Group: II  
Label: 3



EMS: F-E, S-E  
Marine Pollutant: YES  
Proper Shipping Name: PAINT RELATED MATERIAL (Idrocarburi, C7-C9, isoalcani)

**Transport by air:**

IATA: 3 UN: 1263  
Packing Group: II  
Label: 3



Cargo:  
Packaging instructions: 364 Maximum quantity: 60 L  
Pass.:  
Packaging instructions: 353 Maximum quantity: 5 L  
Special Instructions: A3, A72, A192  
Proper Shipping Name: PAINT RELATED MATERIAL  
For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

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## SECTION 15. regulatory information

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

**Seveso category:** 7b, 9ii

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

**Product.**

Point. 3 - 40

**Contained substance.**

Point. 48 TOLUENE

**Substances in Candidate List (Art. 59 REACH).**

None.

**Substances subject to authorisation (Annex XIV REACH).**

None.

**Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:**

None.

**Substances subject to the Rotterdam Convention:**

None.

**Substances subject to the Stockholm Convention:**

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.

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## SECTION 16. OTHER INFORMATION

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

**Flam. Liq. 2** Flammable liquid, category 2

**Flam. Liq. 3** Flammable liquid, category 3

**Repr. 2** Reproductive toxicity, category 2

**Asp. Tox. 1** Aspiration hazard, category 1

**STOT RE 2** Specific target organ toxicity - repeated exposure, category 2

**Skin Irrit. 2** Skin irritation, category 2

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**STOT SE 3** Specific target organ toxicity - single exposure, category 3  
**Aquatic Chronic 2** Hazardous to the aquatic environment, chronic toxicity, category 2  
**H225** Highly flammable liquid and vapour.  
**H226** Flammable liquid and vapour.  
**H361d** Suspected of damaging the unborn child.  
**H304** May be fatal if swallowed and enters airways.  
**H373** May cause damage to organs through prolonged or repeated exposure.  
**H315** Causes skin irritation.  
**H336** May cause drowsiness or dizziness.  
**H411** Toxic to aquatic life with long lasting effects.  
**EUH066** Repeated exposure may cause skin dryness or cracking.

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

**R10** FLAMMABLE.  
**R11** HIGHLY FLAMMABLE.  
**R38** IRRITATING TO SKIN.  
**R48/20** HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.  
**R51/53** TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.  
**Repr. Cat. 3** Reproductive toxicity, development, category 3.  
**R63** POSSIBLE RISK OF HARM TO THE UNBORN CHILD.  
**R65** HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.  
**R66** REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.  
**R67** VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
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. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament
8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament
9. The Merck Index. - 10th Edition
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique (toxicological sheet)
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
15. ECHA website

This MSDS cancels and replaces any preceding release.

Information contained in this data sheet is based on our state of knowledge and on laboratory testing at the above-specified date. The User should determine, by preliminary tests, the suitability of the product for his intended purpose, and should observe the laws and regulations regarding health and safety. C.T.S. S.r.l. guarantees the constant quality of the product but is not accountable for any damages caused by the incorrect use of a material. The product is intended for professional use only. In addition, the components and packaging can change at any time, without any obligation of prior notice.