

Safety Data Sheet

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

1.1. Product identifier

Code: **PAX--001044**
Product name: **Platino Brillante**
Metallorganic compound for 3rd. fire.

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

Intended use: **third firing decoration in the glass/ceramics/porcelain sectors**

1.3. Details of the supplier of the safety data sheet

Name: **COLOROBIA S.P.A.**
Full address: **Via A. Gramsci 14**
District and Country: **50056 Montelupo Fiorentino (FI)**
Italia
Tel.: **+39 0571 70 81**
Fax: **+39 0571 708.800**
e-mail address of the competent person responsible for the Safety Data Sheet: **ambientemsds@colorobbia.it**

1.4. Emergency telephone number

For urgent inquiries refer to: **+39 0571 709.565**

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: 10-20/21/22-36/38-43-51/53-65-68/22

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.



R10 FLAMMABLE.
R20/21/22 HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R36/38 IRRITATING TO EYES AND SKIN.
R43 MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R51/53 TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R65 HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R68/22 HARMFUL: POSSIBLE RISK OF IRREVERSIBLE EFFECTS IF SWALLOWED.
S29 DO NOT EMPTY INTO DRAINS.

S36/37 WEAR SUITABLE PROTECTIVE CLOTHING AND GLOVES.
S60 THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF AS HAZARDOUS WASTE.
S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.
S62 IF SWALLOWED, DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

Contains: Synthetic Camphor
TURPENTINE
Eugenol
Eucalyptus Oil
(R)-P-MENTHA-1,8-DIENE

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).
Synthetic Camphor			
CAS. 76-22-2	9 - 25	F R11, Xn R20, Xn R68/22	Flam. Aerosol 1 H222, Flam. Liq. 2 H225, Acute Tox. 4 H332, STOT SE 2 H371
EC. 200-945-0			
INDEX. -			
TURPENTINE			
CAS. 8006-64-2	10 - 25	R10, Xn R20/21/22, Xn R65, Xi R36/38, Xi R43, N R51/53	Flam. Liq. 3 H226, Acute Tox. 4 H332, Acute Tox. 4 H312, Acute Tox. 4 H302, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC. 232-350-7			
INDEX. 650-002-00-6			
Eugenol			
CAS. 97-53-0	5 - 9	Xi R36, Xi R43	Eye Irrit. 2 H319, Skin Sens. 1 H317
EC. -			
INDEX. -			
Eucalyptus Oil			
CAS. 8000-48-4	2,5 - 5	R10, Xn R65, Xi R43, N R51/53	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC. -			
INDEX. -			
CYCLOHEXANOL			
CAS. 108-93-0	1 - 5	Xn R20/22, Xi R37/38	Acute Tox. 4 H332, Acute Tox. 4 H302, Skin Irrit. 2 H315, STOT SE 3 H335
EC. 203-630-6			
INDEX. 603-009-00-3			
Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)			
CAS. -	1 - 2,5	R10, R66, R67, Xn R65, N R51/53, Note H P	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC. 919-446-0			
INDEX. -			
Reg. no. 01-2119458049-33			
(R)-P-MENTHA-1,8-DIENE			
CAS. 5989-27-5	1 - 2,5	R10, Xi R38, Xi R43, N R50/53, Note C	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400, Aquatic Chronic 1 H410, Note C
EC. 227-813-5			
INDEX. 601-029-00-7			
Linalool			
CAS. 78-70-6	1 - 5	Xi R38	Skin Irrit. 2 H315
EC. 201-134-4			
INDEX. -			
Nitroethane			
CAS. 79-24-3	1 - 5	R10, Xn R20/22	Flam. Liq. 3 H226, Acute Tox. 4 H332, Acute Tox. 4 H302
EC. 201-188-9			
INDEX. 609-035-00-1			

Alpha-Pinene

CAS. 80-56-8 0,5 - 1 R10, Xn R65, Xi R43, N R50/53
EC. 201-291-8
INDEX. -

Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317,
Aquatic Acute 1 H400, Aquatic Chronic 1 H410

4-METHYLPENTAN-2-ONE

CAS. 108-10-1 0,5 - 1 R66, F R11, Xn R20, Xi R36/37
EC. 203-550-1
INDEX. 606-004-00-4

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319,
STOT SE 3 H335, EUH066

CYCLOHEXANONE

CAS. 108-94-1 0 - 0,5 R10, Xn R20
EC. 203-631-1
INDEX. 606-010-00-7

Flam. Liq. 3 H226, Acute Tox. 4 H332

Camphene

CAS. 79-92-5 0 - 0,25 R10, Xi R36, N R50/53
EC. 201-234-8
INDEX. -

Flam. Liq. 3 H226, Eye Irrit. 2 H319, Aquatic Acute 1 H400,
Aquatic Chronic 1 H410

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 contain carbon dioxide, foam or chemical powders. For product leaks and spills that have not caught fire, nebulised water can be used to disperse flammable fumes and protect the individuals taking part in stemming the leak.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

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 (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 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 ties around arms, legs and waist) work gloves (fireproof, cut proof and dielectric), self-respirator (self-protector).

6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Eliminate sources of ignition (cigarettes, flames, sparks, etc.) from the area in which the leak occurred. 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 leaked product before donning appropriate protective gear. Send away individuals who are not suitably equipped. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, refer to 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.

For liquid products, suck into a suitable container (made of material not incompatible with the product) and soak up any leaked product with absorbent inert material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc). Collect the majority of the remaining material and deposit in containers for disposal. For solid products, use spark proof mechanical tools to collect the leaked product and place in plastic containers. 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		STEL/15min		
			mg/m ³	ppm	mg/m ³	ppm	
Synthetic Camphor	TLV-ACGIH		13	2			
TURPENTINE	TLV-ACGIH		111				
	OEL	IRL		100		150	
	WEL	UK		100		150	
CYCLOHEXANOL	TLV-ACGIH			50			Skin
	OEL	IRL		50			Skin
	WEL	UK		50			Skin
Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)	TLV-ACGIH			100			
	TLV		300	52			
4-METHYLPENTAN-2-ONE	TLV-ACGIH			50		75	
	OEL	EU	83	20	208	50	
	OEL	IRL		20		50	
	WEL	UK		50		100	
CYCLOHEXANONE	TLV-ACGIH			20		50	Skin
	OEL	EU	40,8	10	81,6	20	Skin
	OEL	IRL		10		20	Skin
	WEL	UK		10		20	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 II (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in PVC, neoprene, nitril 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 II 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 B 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 mask or mouthpiece (ref. standard EN 138).

An emergency eye washing and shower system must be provided.

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

9. Physical and chemical properties.**9.1. Information on basic physical and chemical properties.**

Appearance	Not available.
Colour	Not available.
Odour	characteristic
Odour threshold.	Not available.
pH.	Not available.
Melting or freezing point.	Not available.
Boiling point.	Not available.
Distillation range.	Not available.
Flash point.	38 - 43 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Specific gravity.	1,000
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.

Information not available.

10. Stability and reactivity.**10.1. Reactivity.**

The product may react exothermically on contact with strong oxidizing agents or reducers, strong acids or bases.

TURPENTINE: dissolves rubber.

10.2. Chemical stability.

Excessively high temperatures can cause thermal decomposition.

10.3. Possibility of hazardous reactions.

See paragraph 10.1.

TURPENTINE: reacts violently with strong oxidants and chlorine. May ignite on contact with tin chloride, dissolves rubber. In oxygen atmospheres it generates explosive peroxides. Generates a strongly exothermic reaction on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with nitric acid, fluorine.

CYCLOHEXANOL: risk of explosion on contact with nitric acid, strong antioxidants. Can react dangerously with: alkaline metals, chromium trioxide. Forms explosive mixtures with the air.

10.4. Conditions to avoid.

Avoid heating the product.

CYCLOHEXANOL: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

Oxidizing agents or reducers, strong acids or bases.

CYCLOHEXANOL: plastic (it attacks it), strong oxidising agents.

10.6. Hazardous decomposition products.

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

TURPENTINE: acyclic and monocyclic terpenes, hydroterpenes, pyrones; cymenes.

11. Toxicological information.

Informazioni riferite all'eugenolo:

LD50 orale ratto 2650 mg/Kg

LD50	dermale	coniglio	5000	mg/Kg
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11.1. Information on toxicological effects.

Acute effects: inhalation, cutaneous absorption and ingestion of this product are harmful. This product may irritate mucosae, the upper respiratory tract, and eyes. Exposure symptoms may include: stinging and irritated eyes, mouth, nose, throat; cough, respiratory disorders, dizziness, headache, nausea and sickness.

In the most serious cases, inhalation of this product may cause larynx and bronchial tube edema and irritation, chemical pneumonia and pulmonary edema. Upon contact with skin, this product may irritate it, causing an increase in skin temperature, swelling and itchiness.

Ingestion of even small amounts of this product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurries, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas.

Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

This product may cause irreversible, non-lethal damages after a single exposure by ingestion.

TURPENTINE

LD50 (Oral):	5760 mg/Kg Rat				
Hydrocarbons,	C9-C12	n-alkanes,	ISOALCANI,	CYCLIC,	AROMATIC (2-25%)

LD50 (Oral):	> 5000 mg/Kg Rat
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LD50 (Dermal):	> 4 ml/Kg Rabbit
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LC50 (Inhalation):	> 8,2 mg/l Rat
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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.

(R)-P-MENTHA-1,8-DIENE

LC50 (96h): 35 mg/l/96h Oncorhynchus mykiss
EC50 (48h): 69,6 mg/l/48h Daphnia pulex

12.2. Persistence and degradability.

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable.

TURPENTINE: Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharge into the environment. In general the product is poorly biodegradable.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

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.

Road and rail transport:

ADR/RID Class: 3 UN: 1263
Packing Group: III
Label: 3
Nr. Kemler: 30
Limited Quantity: 5 L
Tunnel restriction code: (D/E)
Proper Shipping Name: PAINT or PAINT RELATED MATERIAL
Special Provision: 640E




Carriage by sea (shipping):

IMO Class: 3 UN: 1263
Packing Group: III
Label: 3
EMS: F-E , S-E
Marine Pollutant: YES
Proper Shipping Name: PAINT or PAINT RELATED MATERIAL (TURPENTINE)



Transport by air:

IATA:	3	UN:	1263	
Packing Group:	III			
Label:	3			
Cargo:				
Packaging instructions:	366	Maximum quantity:	220 L	
Pass.:				
Packaging instructions:	355	Maximum quantity:	60 L	
Special Instructions:	A3, A72			
Proper Shipping Name:	PAINT or PAINT RELATED MATERIAL			

15. Regulatory information.

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

Seveso category. 9ii, 6

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

Product.
Point. 3 - 40

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:

Flam. Aerosol 1 Flammable aerosol, category 1
Flam. Liq. 2 Flammable liquid, category 2
Acute Tox. 4 Acute toxicity, category 4
STOT SE 2 Specific target organ toxicity - single exposure, category 2
Flam. Liq. 3 Flammable liquid, category 3
Asp. Tox. 1 Aspiration hazard, category 1
Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
Skin Sens. 1 Respiratory / skin sensitization, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity category 2
STOT SE 3 Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity category 1
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H312 Harmful in contact with skin.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H371 May cause damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
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.
R20	HARMFUL BY INHALATION.
R20/21/22	HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R20/22	HARMFUL BY INHALATION AND IF SWALLOWED.
R36	IRRITATING TO EYES.
R36/37	IRRITATING TO EYES AND RESPIRATORY SYSTEM.
R36/38	IRRITATING TO EYES AND SKIN.
R37/38	IRRITATING TO RESPIRATORY SYSTEM AND SKIN.
R38	IRRITATING TO SKIN.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
R68/22	HARMFUL: POSSIBLE RISK OF IRREVERSIBLE EFFECTS IF SWALLOWED.

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 Atq. 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.

Changes to previous review:

The following sections were modified:

03 / 08 / 11 / 15.