



**MATERIAL SAFETY DATA SHEET**  
**According 91/155/CEE (93/112/EEC)**

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**3. HAZARDS IDENTIFICATION (CONTINUED)**

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**Eye contact:** Redness, watering, blurred vision. Risk of irritant effect on eyes.  
**Ingestion:** Health risk even in small quantities. Product should not come into contact with foodstuffs.

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**4. FIRST AID MEASURES**

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**In general, in case of doubt or if symptoms persist, consult a physician and show the product label or this MSDS. Never give anything by mouth to a person who is unconscious or likely to become so (state of shock, etc ...)**

**Inhalation:** Move to fresh air, keep warm and get medical advice.  
If breathing is irregular or stops, give artificial respiration (if possible give oxygen) and contact the local Emergency Services.

**Skin contact:** Remove soiled clothing, clean affected areas with copious amounts of soapy water.  
Do not use solvents (thinners ...).

**Eye contact:** In case of contact with eyes, rinse immediately with fresh water for 15 minutes holding eyelids open.  
Refer the victim to an ophthalmologist immediately and show the product label or this MSDS; this should be treated as an emergency in case of symptoms (redness, pain, visual problems).

**Ingestion:** If quantity is small (less than a mouthful), rinse mouth with water. **DO NOT** induce vomiting. In all cases, seek medical attention.

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**5. FIRE-FIGHTING MEASURES**

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**Extinguishing media:**

**- for minor fires:** Chemical powders, carbon dioxide and other extinguishing gases may be suitable for minor fires.

**- recommended:** Special foam for polar liquids.

**- to avoid:** Water without additives.

**Prevention:** Avoid naked flames or other sources of ignition in areas where product is used; protect electrical equipment (risk of explosive zones). No smoking. Dry residue stay highly flammable (contain nitrocellulose)

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**5. FIRE-FIGHTING MEASURES (CONTINUED)**

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- Special procedure:** Exercise caution when fighting any chemical fire. Use water to keep the containers exposed to fire cool.  
Avoid increase in pressure causing the release of the drum lid.  
Fire often produces a dense black smoke; vapours heavier than air; exposure to decomposition products constitutes a serious health hazard.  
Do not inhale smoke.  
Prevent fire-fighting effluent from entering drains, watercourses and/or environment.
- Special equipment:** Self-contained breathing apparatus to protect against toxic gases produced by thermal decomposition.

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**6. ACCIDENTAL RELEASE MEASURES**

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- Personal precautions:** Remove all possible sources of ignition and thoroughly ventilate premises. Do not inhale fumes. Avoid skin and eye contact. See § 7 et 8.
- Environmental precautions:** Prevent product from entering drains or watercourses.  
If product contaminates ground water, rivers or drains (or is likely to do so), notify the relevant authorities, following the statutory procedures.
- Cleaning / taking up:** Clean up any spills as soon as possible, using a non-combustible absorbent material to collect it, for example: sand, earth, vermiculite, diatomic earth.  
Collect material into suitable drums for disposal in accordance with regulations (see Section 13).  
It is preferable to clean with detergents, do not use solvents.

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**7. HANDLING AND STORAGE**

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- General:** Handle in accordance with good industrial hygiene and safety procedures. Avoid naked flames or other sources of ignition in areas where product is used. No smoking.  
Do not allow unauthorized persons into areas where product is used.
- Precautions in handling and storage:** Handle empty containers with care because residual vapours are flammable. Dry residue stay highly flammable (contain nitrocellulose)

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**7. HANDLING AND STORAGE (CONTINUED)**

**Technical protective measures:** Provide proper grounding. Use only non-sparking tools. Do not use compressed air to either agitate or transfer the contents of storage containers (tanks) / shipping drums containing this material

Avoid build-up of static charges by:

- ensuring that flooring is conductive and keeping it clean,
- ensuring that equipment is earthed during transfer or stirring of the product or preparations containing the product,
- the use of antistatic shoes, clothing and packaging.

Fumes are heavier than air and they may spread at ground level and form explosive mixtures with air.

Avoid the formation of explosive concentrations and concentrations above occupational exposure limits.

**Storage:** Store in tightly closed containers in a cool, dry, well-ventilated place, away from sources of ignition.

**Handling:** Ensure prompt removal from eyes, skin and clothing.

**Recommended equipment and procedures:** For personal protection, see Section 8.

Observe the precautions indicated on the label as well as workplace safety rules.

Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

<b>Exposure</b>	<b>limit values:</b>	<b>TLV</b>	<b>PEL</b>
Ethyl Acetate	400 ppm		-
Butyl Acetate	150 ppm		-
Isopropyl Alcohol	5mg/m <sup>3</sup>		-

**Respiratory protection:** If vapour concentrations exceed the established exposure limits, respiration protection is necessary, wear a gas mask with appropriate cartridge.

**Eye protection:** Use eye protection (chemical goggles or safety glasses) to avoid splashing.

**Hand protection:** Use gloves to prevent skin contact and possible irritation.

**Ingestion:** When using, do not eat, drink or smoke.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)**

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**Personal hygiene:** Minimize breathing of vapour. Avoid prolonged contact with skin.  
Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Appearance:</b>	Translucent liquid, viscous.		
<b>Odour:</b>	Solvent.		
<b>Boiling Point/Range (°C):</b>	> 77 °C		
<b>Flash Point (°C):</b>	< 21 °C		
<b>Explosive Limits % Vol:</b>	lower	upper	
Ethyl Acetate	2,1	11,5	
Butyl Acetate	1,2	7,5	
Isopropyl Alcohol	2		12,7
<b>Specific gravity:</b>	0,95 - 1,05 gr/cm <sup>3</sup> at 20 °C		
<b>Solubility in water:</b>	Not miscible.		
<b>Viscosity at 25°C (mpas):</b>	variable		

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**10. STABILITY AND REACTIVITY**

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<b>Stability:</b>	Stable under normal conditions.
<b>Conditions to be avoided:</b>	Heating
<b>Materials to avoid:</b>	Alkali metals, strong acids/alkalis, fluorine, hydrides, strong oxidizing agents, water with air and light
<b>Hazardous decomposition:</b>	Thermal decomposition may liberate carbon and nitrogen oxides
<b>Further Information</b>	Light sensitive, sensitive to air; unsuitable working materials: various plastics Explosible with air in a vaporous/gaseous state

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***11. TOXICOLOGICAL INFORMATION***

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Exposure to levels above the values under Section 8, or regular exposure even if levels are lower, of vapours from solvents present in the preparation may be harmful for health; the effects through inhalation of the vapours and/or contact with skin on long or short time are: irritation of mucous membranes and respiratory tract, renal, liver and central nervous system affections.

Symptoms include headaches, dizziness, fatigue, muscular asthenia and, in extreme cases, unconsciousness.

Prolonged or repeated skin contact can lead to defatting, provoking non-allergic contact dermatitis and absorption of product through the skin.

Splashes to the eyes can cause irritation and irreversible damage (possibility of lesions of at least 24 hours' duration).

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***12. ECOLOGICAL INFORMATION***

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**Fish toxicity (LC50)**                                Specific to solvents

**Bacteria toxicity (LC50):**

**Do not allow to enter waters, waste water, or soil !**

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***13. DISPOSAL CONSIDERATIONS***

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**Material**            Avoid release to the environment.

**disposal:**        Dispose of this material at hazardous or special waste collection point or give to an agreed waste collector / transporter for elimination or treatment.  
Dispose in a safe manner in accordance with local regulations.

**Container:**      Empty containers /drums for storage or transport before giving to an agreed collector. Keep label (Flame, Class 3) on the container and dispose of it as hazardous waste.

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**14. TRANSPORT INFORMATION**

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<b>Proper shipping name</b>	Paint related material	<b>UN:</b>	1263
<b><u>ADR/RID:</u></b>			
<b>H.I.:</b>	33	<b>ADR/RID:</b>	3
<b>Packaging Group</b>	II		
<b><u>IMDG</u></b>			
<b>IMCO:</b>	3	<b>EMS</b>	3-05
<b>Packaging Group</b>	II	<b>Flashpoint</b>	- 4 °C
<b><u>IATA/IACO</u></b>			
<b>ICAO Label:</b>	Flammable liquid	<b>Packaging Group</b>	II

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**15. REGULATORY INFORMATION**

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<b>Symbols</b>	rI r t i a n t Highly flammable	<b>X i</b>	F
<b>R Phrases</b>	R11	Highly flammable	
	R36	Irritant to eyes	
	R66	Repeated exposure may cause skin dryness or cracking.	
	R67	Vapours may cause drowsiness and dizziness.	
<b>S Phrases</b>	S9	Keep container in a well-ventilated place	
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice	
	S27	Take off immediately all contaminated clothing	
	S29	Do not empty into drains	
	S33	Take precautionary measures against static discharges	
	S37/39	Wear protective gloves and eye/face protection.	
	S43	In case of fire, use special foam for polar liquids or chemical powders, carbon dioxide. Never use water.	
	S45	In case of accident or if you feel unwell, seek medical advice	

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**16. OTHER INFORMATION**

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*The contents and format of this MSDS are in accordance with EEC Commission Directive 93/112/EEC.*

*DISCLAIMER OF LIABILITY      The information contained in this Material Safety Data Sheet was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge.*

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*This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.*

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Department issuing data specification sheet: EHS Department      Approved: Laboratory

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