

SAFETY DATA SHEET

CHARBONNEL VERNIS LIQUIDE GRAVEUR ULTRAFLEX

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME: CHARBONNEL VERNIS LIQUIDE GRAVEUR ULTRAFLEX

APPLICATIONS: Etching ground

MANUFACTURER: ColArt International SA
5 Rue Rene Panhard
Z.I .Nord
72021 Le Mans Cedex 2
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2. COMPOSITION/INFORMATION ON INGREDIENTS

NAME			CONTENT
CAS No.:	EINECS Nr.:	CLASSIFICATION	
Essence d'aspic		Xn ,N R-10, 43, 51/53, 65	5-10 %
TURPENTINE			50-70 %
8006-64-2	232-350-7	Xn ,N R-10, 20/21/22, 36/38, 43, 51/53, 65	

The Full Text for all R-Phrases are Displayed in Section 16

3. HAZARDS IDENTIFICATION

Flammable. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful: may cause lung damage if swallowed.

4. FIRST AID MEASURES

GENERAL: Consult a physician for specific advice.

INHALATION: Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering 100% oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION: NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

SKIN: Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above.

EYES: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO₂). Dry chemicals, sand, dolomite etc.

SPECIAL FIRE FIGHTING PROCEDURES: Keep run-off water out of sewers and water sources. Dike for water control. Cool containers exposed to flames with water until well after the fire is out. Move container from fire area if it can be done without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. If risk of water pollution occurs, notify appropriate authorities.

UNUSUAL FIRE & EXPLOSION HAZARDS: Oxidizes readily in air to unstable peroxides that may explode spontaneously. May explode in a fire. May form explosive or toxic mixtures with air. May explode when heated or when exposed to flames or sparks. May travel considerable distance to source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers. May ignite other combustible materials.

6. ACCIDENTAL RELEASE MEASURES

SPILL CLEANUP METHODS: Ventilate well, stop flow of gas or liquid if possible. Remove ignition sources. Do not allow chemical to enter confined spaces such as sewers due to explosion risk. Sewers designed to preclude formation of explosive concentrations of vapour may be permitted. Absorb small quantities with paper towels and evaporate in safe place (fume hood). Allow sufficient time for vapours to completely clear the hood ducts, then burn the paper in a location away from combustible materials. Collect with noncombustible absorbent material. Flush with water. Dike for large spills. Let evaporate. Keep out of confined spaces because of explosion risk. Provide ventilation and confine spill. Do not allow runoff to sewer.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid acids, moisture, and combustible materials. Read and follow manufacturer's recommendations.

STORAGE PRECAUTIONS: Flammable/combustible - Keep away from oxidizers, heat and flames. Keep in cool, dry, ventilated storage and closed containers. Ground container and transfer equipment to eliminate static electric sparks.

STORAGE CRITERIA: Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
TURPENTINE	8006-64-2	OES	100 ppm	150 ppm
CHARBONNEL VERNIS LIQUIDE GRAVEUR ULTRAFLEX		OES	100 ppm	150 ppm

VENTILATION:	Provide adequate general and local exhaust ventilation.
PROTECTIVE GLOVES:	For exposure of 4 to 8 hours use gloves made of: Polyvinyl alcohol (PVA). P.T.F.E (Teflon).
EYE PROTECTION:	Wear approved chemical safety goggles where eye exposure is reasonably probable.
OTHER PROTECTION:	Use engineering controls to reduce air contamination to permissible exposure level. Provide eyewash, quick drench. Wear appropriate clothing to prevent any possibility of skin contact.
HYGIENIC WORK PRACTICES:	Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet. Promptly remove any clothing that becomes wet or contaminated. Isolate contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid.		
COLOUR:	Brown.		
ODOUR/TASTE:	Turpentine.		
BOILING POINT (°C, interval):	> 156	Pressure:	
DENSITY/SPECIFIC GRAVITY (g/ml):	0.9	Temperature (°C):	
VAPOUR DENSITY (air=1):	> 1		
VAPOUR PRESSURE:	5 mmHg	Temperature (°C):	
SOLUBILITY DESCRIPTION:	Insoluble in water.		
FLASH POINT (°C):	32	Method:	CC (Closed cup).
AUTO IGNITION TEMP. (°C):	> 250		
FLAMMABILITY LIMIT - LOWER(%):	0.8		
FLAMMABILITY LIMIT - UPPER(%):	6.0		

10. STABILITY AND REACTIVITY

STABILITY:	Normally stable. Avoid: Air and oxidizers. Light.
CONDITIONS TO AVOID:	Avoid heat.
HAZARDOUS POLYMERIZATION:	May polymerize.
MATERIALS TO AVOID:	NITRIC ACID
HAZARDOUS DECOMP. PRODUCTS:	Oxides of: Carbon.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE - LD 50:	5760 mg/kg (oral rat)
HEALTH WARNINGS:	Gas or vapour is harmful on prolonged exposure or in high concentration. This chemical may cause skin/eye irritation and burns (corrosive). Irritant of eyes and mucous membranes. CNS depressant. Bone marrow depressant. Knowledge about health hazard

is incomplete. Repeated exposure may cause chronic eye irritation. May cause chemical eye burns. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation). Swallowing concentrated chemical may cause severe internal injury. Unconsciousness, death.

ROUTE OF ENTRY:

Inhalation. Skin absorption.

TARGET ORGANS:

Central nervous system. Eyes. Gastro-intestinal tract. Kidneys. Liver. Respiratory system, lungs. Skin. Bladder.

MEDICAL SYMPTOMS:

Extreme irritation of eyes and mucous membranes, including burning and tearing. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Severe skin irritation. Allergic rash. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Headache. Behavioral changes. Hypotension (low blood pressure). Dizziness.

MEDICAL CONSIDERATIONS:

Skin disorders and allergies. Convulsive disorders, CNS problems.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Dangerous for the environment: May cause long-term adverse effects in the aquatic environment.

WATER HAZARD CLASSIFICATION: 2

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS:

Incinerate in suitable combustion chamber. Absorb in vermiculite or dry sand, dispose in licensed special waste. Collect on absorbent material, place in cardboard kegs and incinerate. Confirm disposal procedures with environmental engineer and local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:**UN No. ROAD:**

1263

ADR CLASS No.:

3

ADR CLASS:

Class 3: Flammable liquids.

ADR PACK GR.	III
HAZARD No. (ADR):	30 Flammable liquid (flash-point between 23°C and 61°C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 61°C, heated to a temperature equal to or above its flash-point, or self heating liquid.
ADR LABEL No.:	3
HAZCHEM CODE:	3y
PROPER SHIPPING NAME I:	Paint related material
RID CLASS No.:	3
RID PACK GR.	III
UN No. SEA:	1263
IMDG CLASS:	3
IMDG PAGE No.:	3391
IMDG PACK GR.:	III
EmS No.:	3-05
MFAG TABLE No.:	313
MARINE POLLUTANT:	Yes.
UN No., AIR:	1263
ICAO CLASS:	3
AIR PACK GR.:	III

15. REGULATORY INFORMATION

LABEL FOR SUPPLY:



RISK PHRASES:	<p>R-10 Flammable.</p> <p>R-20/21/22 Harmful by inhalation, in contact with skin and if swallowed.</p> <p>R-36/38 Irritating to eyes and skin.</p> <p>R-43 May cause sensitisation by skin contact.</p> <p>R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p>
SAFETY PHRASES:	<p>S-2 Keep out of the reach of children.</p> <p>S-46 If swallowed, seek medical advice immediately and show this container or label.</p> <p>S-36/37 Wear suitable protective clothing and gloves.</p> <p>S-61 Avoid release to the environment. Refer to special instructions/ Safety Data Sheets.</p> <p>S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.</p>

EU DIRECTIVES: Dangerous Substance Directive 67\548. Dangerous Preparations Directive 88\379.
System of specific information relating to Dangerous Preparations. 91\155.

16. OTHER INFORMATION

REVISION DATE: 16/07/2003

SAFETY DATA SHEET STATUS: Approved.

R-PHRASES (Full Text): R-10 Flammable. R-43 May cause sensitisation by skin contact. R-65 Harmful: may cause lung damage if swallowed. R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R-36/38 Irritating to eyes and skin. R-20/21/22 Harmful by inhalation, in contact with skin and if swallowed.