

SAFETY DATA SHEET

Date of issue: 20.07.2006

Date to update: 09.10.2007

Number: SB_8_25_02

Page: 1 of 4

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

1.1. Identification of the preparation: **SPECTRAL BASE SB-2200 BINDER HS METALIC, PERL**

1.2. Use of the preparation: Resin binder to mixed with pigment pastes SPECTRAL BASE obtained base coat

1.3. Company/undertaking identification: **NOVOL Sp. z o.o.** Tel: (061) 810-98-00
ul. Żabikowska 7/9 Fax: (061) 810-98-09
62-052 Komorniki www.novol.pl
Emergency tel: (061) 810-98-00

2. HAZARD IDENTIFICATION

HEALTH HAZARDS: Irritant product. Irritating to eyes Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness

DANGEROUS PROPERTIES: **Highly flammable liquid; that catch fire at temperatures in excess of 21°C if exposed to an ignition source. Avoid contact with strong oxidants.**

OTHER: No data available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

EEC No.	Name of the substance	WE No.	CAS No.	Classification of the substance	Marking of the substance	Composition
---	Ethyl acetate	205-500-4	141-78-6	F; R11 Xi; R36 R66-67	F; Xi R: 11-36-66-67 S: (2-)16-26-33	80-90%
603-117-00-0	Propan-2-ol	200-661-7	67-63-0	F; R11 Xi, R36 R67	F, Xi R: 11-36-67 S: (2-)7-16-24/25-26	1-3%

4. FIRST AID MEASURES

GENERAL INFORMATION: See 11 point Product Data Sheet.

INHALATION: Take the casualty into the fresh air and keep warm irregular breathing/no breathing artificial respiration call a physician.

SKIN: Take off soiled clothes. Wash off with plenty of lukewarm water with soap (at least 15 minutes).consult a doctor in the event of skin reaction.

EYES: Hold the eyes open and rinse immediately with plenty of lukewarm water (at least 15 minutes). Contact with ophthalmologist.

ALIMENTARY TRACT: Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present Safety data sheet. Administer petrolatum; administer neither milk nor animal or vegetable fats of any kind.

5. FIRE-FIGHTING MEASURES

FIRE EXTINGUISHING SUBSTANCES: Water, CO₂., powder, foam, sand.

SPECIAL HAZARDS: Fire may cause the generation of carbon monoxide.

PROTECTIVE EQUIPMENT: Firemen have to wear self-contained breathing apparatus and protective clothing.

OTHER INFORMATION: Cool adjacent tanks by spraying water from a safe distance.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION: Eliminate sources of ignition. Ensure sufficient ventilation in this room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Put on protective equipment see chapter 8.

PROTECTION OF THE ENVIRONMENT: Prevent to get through to the sewage system, to the surface water, underground water, to the soil. In case of a major spillage the affected area should be separated with bounds.

ACTION IN CASE OF SPILLAGE: Seal the container; damaged containers should be placed in emergency containers. Besprinkle spillage, use e.g. mica, sand, wood flour. Remove the substance mechanically and put to emergency containers. For further disposal measures: see chapter 13.

SAFETY DATA SHEET
SPECTRAL BASE SB-2200 BINDER HS METALIC, PERL

Date of issue: 20.07.2006

Date to update: 09.10.2007

Number: SB_8_25_02

Page: 2 of 4

7. HANDLING AND STORAGE

HANDLING RULES: Keep away from heat and sources of fire. Do not smoke. Do not inhale vapours. Avoid contact with skin and eyes. Take precautionary measures against electrostatic loading. Do not eat and drink during working with product. Avoid contact with source of fire, incandescent materials and direct sunshine. Use only in well ventilated place. Put on protective equipment see chapter 8.

STORAGE: Keep in sealed containers in cool, well ventilated rooms. Storage in the vicinity of a large quantity of organic peroxides or strong oxidants is prohibited.

PECULIAR APPLICATION: See the technical product data sheet.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

LIMIT VALUES:

for Ethyl acetate CAS 141-78-6 according to:

- *TRGS 900:* MAK: 400ppm, MAK: 1500 mg/m³, 2(I),DFG, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 200 ppm, STEL 400ppm

for Propan-2-ol CAS: 67-63-0 according to:

- *TRGS 900:* MAK: 200ppm, MAK: 500 mg/m³, 2(II),DFG, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 400 ppm, 999 mg/m³, STEL 500ppm, 1250 mg/m³

RESPIRATORY TRACT PROTECTION: Gas mask with "A" type absorbing canister.

PROTECTION OF HANDS: Protective gloves (viton, nitrile rubber).

EYES PROTECTION: Protective glasses.

SKIN PROTECTION: Suitable protective clothing (antistatic,impregnated clothing).

WORKPLACE: Topical stays and exhausting ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: liquid
Colour: milk
Smell: characteristic
Boiling point: 77°C
Flash-point: -2°C
Autoignition point: approx.370°C
Explosion limits: % lower:: 2.2 vol% upper: 11.5 vol% (ethyl acetate)
Vapour pressure: 97 hPa (20°C) (ethyl acetate)
Density: approx. 0.95g/cm³ (20°C)
Water solubility: poorly soluble
Viscosity Ford φ4: 80 s

10. STABILITY AND REACTIVITY

STABILITY: The product remains stable under normal conditions.

AVOID THE CONTACT OF THE MATERIAL WITH: Strong oxidants, high temperature, strong acids and basis.

DANGEROUS DECOMPOSITION PRODUCTS: Carbon monoxide and other toxic gasses are generated as a result of thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Toxicological studies at the preparation are not available.

TOXICITY:

Ethyl acetate	LD ₅₀ (rat, oral)	5620mg/kg
	LC ₅₀ (rat, inhalation)	200000 mg/m ³
Propan-2-ol:	LD ₅₀ (szczur, doustnie)	5045 mg/kg
	LC ₅₀ (szczur, inhalacja)	16000 ppm/8h

IRRITATING EFFECT: Skin: irritating to skin and mucous membranes.
Eyes: irritating effect.

SYMPTOMS OF POISONING: Headache and vertigo, fatigue, decreased muscle power, sleepiness and, in exceptional instances, loss of consciousness. If swallowed, the substance may cause irritation of the alimentary tract, nausea, vomiting, and diarrhoea.

SAFETY DATA SHEET**SPECTRAL BASE SB-2200 BINDER HS METALIC, PERL**

Date of issue: 20.07.2006

Date to update: 09.10.2007

Number: SB_8_25_02

Page: 3 of 4

12. ECOLOGICAL INFORMATION

Ecological studies at the preparation are not available.

Ethyl acetate: ID-Number: 95
Classification under Hazard to Water: 1

The product is very poorly soluble in water. Keep away from the sewage system, surface water, underground water, and soil.

13. DISPOSAL CONSIDERATIONS**RECOMMENDATION:** Product must be disposed of by special means in accordance with local regulations.**REMAINS OF PRODUCT:** Remains of product in the tin should be carefully remove and leave to dry (only in well ventilated places). Dried product is not harmful waste.**TIN PARTLY EMPTY:** See remains of product code of waste: 15 01 02**14. TRANSPORT INFORMATION****GENERAL INFORMATION:** Do not transport with materials class 1 (with the exception of materials class 1.4S) and with some of materials class 4.1 and 5.2. Avoid direct contact with materials class 5.1 and 5.2 in the time of transport. Do not use naked flame and do not smoke.**ADR/RID:** UN 1263 PAINT, 3, II

UN No.	Name of the raw material	Hazard identification number	Warning label required	Classification Code	Packaging group
1263	PAINT	30	3	F1	II

IMDG- Code: PAINT, CLASS 3, UN 1263, PG II
EmS: F-E, S-E**ICAO/IATA:** No data available.**15. REGULATORY INFORMATION**

Safety data sheet in accordance with Directives:

67/548/EWG(2006/121/WE)

91/155/EWG (2001/58/WE)

1999/45/EC (2006/8/WE)

2006/1907/WE REACH

Other regulations: ADR (2007-2009) , IMDG Code 2006 Edition

CONTAINS: Ethyl acetate**HAZARD SYMBOL(S)** F Highly flammable
Xi Irritant**RISK-PHRASES:** R11 Highly flammable
R36 Irritating to eyes
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness**SAFETY-PHRASES:** S (2-) Keep out of the reach of children
S16 Keep away from sources of ignition-No smoking.
S 23 Do not breathe vapour/spray.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 38 In case of insufficient ventilation, wear suitable respiratory equipment
S 46 If swallowed, seek medical advice immediately and show this container or label

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SPECTRAL BASE SB-2200 BINDER HS METALIC, PERL

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Number: SB_8_25_02

Page: 4 of 4

16. OTHER INFORMATION

Full text of the R-Phrases from section 2 and 3:

R11 Highly flammable

R36 Irritating to eyes

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness

Information contained herein is based on our current knowledge. This document does not constitute a warranty for product characteristics.

Issued by: NOVOL Sp. z o.o.

Information: Laboratory Research and Development; tel. +48 61 810 99 09