

SAFETY DATA SHEET

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Date to update: 09.10.2007

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1. Identification of the preparation:** SPECTRAL BASE SB-1000 BINDER SOLID, 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:** Harmful product. Harmful by inhalation and in contact with skin. Repeated exposure may cause skin dryness or cracking.**DANGEROUS PROPERTIES:** 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
607-025-00-1	Butyl acetate	204-658-1	123-86-4	R10 R66-67	R: 10-66-67 S: (2-)25	40-50%
601-022-00-9	Xylene	215-535-7	1330-20-7	R10 Xn, R20/21 Xi, R38	Xn R: 10-20/21-38 S: (2-)25	12.5-15%
603-004-00-6	Butan-1-ol	200-751-6	71-36-3	R10 Xn; R22 Xi; R37/38-41 R67	Xn R: 10-22-37/38-41-67 S: (2-)7/9-13-26-37/39-46	3-5%

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 and 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:** Do not under any circumstances 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:** Powder, foam, sand, CO₂.**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.

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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 Xylene CAS 1330-20-7 according to:

- *TRGS 900:* MAK: 100ppm, MAK: 440 mg/m³, 2(II),DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m³, 220mg/m³, STEL 100ppm, 441 mg/m³, Sk, BMGV

for Butyl acetate CAS 123-86-4 according to:

- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 150 ppm, 724 mg/m³, STEL 200ppm, 966 mg/m³

for Butan-1-ol CAS 71-36-3: according to:

- *TRGS 900:* MAK: 100ppm, MAK: 310 mg/m³, 1(I),DFG, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA - mg/m³ -mg/m³, STEL 60 ppm, 154 mg/m³, Sk, BMGV

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: pungent, penetrating odour
Boiling point: 126-140°C
Flash-point: 23°C
Autoignition point: approx.370°C
Explosion limits: % lower:: 1.0 vol% upper: 8.0 vol% (butyl acetate)
Vapour pressure: 13 hPa (20°C) (butyl acetate)
Density: 1.0 g/cm³ (20°C)
Water solubility: poorly soluble
Viscosity Ford φ4: approx. 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: Butyl acetate LD₅₀ (rat, oral) 14000 mg/kg
LC₅₀ (rat, inhalation) 9660 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.

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12. ECOLOGICAL INFORMATION

Ecological studies at the preparation are not available.

Butyl acetate: ID-Number: 42
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).**ATTENTION:** Remains should be dried in small portions far from flammable substances. Dried product is not harmful waste.**TIN PARTLY EMPTY:** See remains of product code of waste: 15 01 10**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, III

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

IMDG- Code: PAINT, CLASS 3, UN 1263, PG III, MARRINE POLLUTANT
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: Xylene**HAZARD SYMBOL(S)** Xn Harmful**RISK-PHRASES:**
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R66 Repeated exposure may cause skin dryness or cracking.**SAFETY-PHRASES:**
S (2-) Keep out of the reach of children.
S 23 Do not breathe vapour/spray.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 38 In case of insufficient ventilation, wear suitable respiratory equipment
S 43 In case of fire, use powder, foam, sand, CO₂
S 46 If swallowed, seek medical advice immediately and show this container or label

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16. OTHER INFORMATION

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

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin

R22 Harmful if swallowed.

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage 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