

**SAFETY DATA SHEET**

Date of issue: 14.04.2006

Date to update: 09.10.2007

Number: SB\_8\_23\_2

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****1.1. Identification of the preparation:****SPECTRAL ACRYL ENAMEL:**

**S-000 BLACK , S-001 LIGHT BLACK, S-090 WHITE, S-091 LIGHT WHITE, S-100 BRIGHT RED, S-140 RED OXIDE, S-160 PINK, S-410 YELLOW OXIDE, S-411 RED YELLOW, S-413 BRILLIANT YELLOW, S-451 BRIGHT YELLOW, S-500 GREEN , S-600 BLUE, S-700 VIOLET, S-710 RED VIOLET, S-800 WHITE ALUMINIUM, S-540 GREEN GOLD, S-610 RED BLUE**

**1.2. Use of the preparation:**

Two-component acryl enamels (component A) which are part of SPECTRAL system.

**1.3. Company/undertaking identification:**

NOVOL Sp. z o.o.  
ul. Żabikowska 7/9  
62-052 Komorniki

Tel: (061) 810-98-00  
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**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; 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
607-195-00-7	2-Methoxy-1-methylethyl acetate	203-603-9	108-65-6	R10 Xi; R36	Xi R: 10-36 S: (2-)25	4-12%
607-025-00-1	Butyl acetate	204-658-1	123-86-4	R10 R66-67	R: 10-66-67 S: (2-)25	5-18%
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	5-10%
607-038-00-2	2-butoxyethyl acetate	203-933-3	112-07-2	Xn; R20/21	Xn R: 20/21 S: (2-)24	1-5%
	Ethyl 3-ethoxypropionate		763-69-9	R10	R10 S: 16-3/7	1-5%

**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 (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 provoke vomiting (risk of choking). Rinse mouth with water. Medical help is required.

**5. FIRE-FIGHTING MEASURES****FIRE EXTINGUISHING****SUBSTANCES:**

Powder, foam resistant to alcohols, carbon dioxide, watermist.

**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.

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**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.

**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. 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/m<sup>3</sup>, 2(II),DFG, H
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 mg/m<sup>3</sup>, 220mg/m<sup>3</sup>, STEL 100ppm, 441 mg/m<sup>3</sup>, Sk, BMGV

for 2-methoxy-1-methylethyl acetate CAS 108-65-6 according to:

- *TRGS 900:* MAK: 50ppm, MAK: 270 mg/m<sup>3</sup>, 1(I),DFG, EU, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 274 mg/m<sup>3</sup>, STEL 100ppm, 548 mg/m<sup>3</sup>, Sk

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/m<sup>3</sup>, STEL 200ppm, 966 mg/m<sup>3</sup>

for 2-butoxyethyl acetate CAS: 112-07-2 according to:

- *TRGS 900:* MAK: 20ppm, MAK: 130 mg/m<sup>3</sup>, 4(II),DFG, H, Y

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

**PROTECTION OF HANDS:** Protective gloves suitable for handling solvents (viton, nitrile rubber, vinyl polialcohol).

**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: according to colour on the tin  
 Smell: pungent, penetrating odour  
 pH: --  
 Boiling point: 127°C  
 Flash-point: 23°C  
 Autoignition point: approx.300°C  
 Explosion limits: % lower: 1.0 vol.% upper: 8.0 vol.% (butyl acetate)  
 % lower: 1.07 vol% upper: 10.55 vol% (xylene)  
 Vapour pressure: --  
 Density: 1.0 – 1.26 g/cm<sup>3</sup> (20°C)  
 Water solubility: insoluble  
 Partition coefficient n-octanol/water: --  
 Viscosity (Ford φ4): 110-130s

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**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:** Xylene LD<sub>50</sub> (rat, oral) 5000 mg/kg  
LC<sub>50</sub> (rat, inhalation) 4550 ppm/4h

**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.**12. ECOLOGICAL INFORMATION**

Ecological studies at the preparation are not available.

2-Methoxy-1-methylethyl acetate: Daphnia magna/EC50 (48h.) > 500 mg/l  
Oncorhynchus mykiss/LC50 (96h.) 100-180 mg/l  
Number in catalogue includes substance danger to water : 5033  
Water hazard class : 1

Xylene: Daphnia magna/EC50 (48h.) > 7,4 mg/l  
ID-Number: 206

Butyl acetate: Classification under Hazard to Water: 2  
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 harden using suitable hardener. Harden product is not harmfully substance and could be treat like plastics wastes (in accordance with the regulations).  
**code of waste:** 08 01 11**ATTENTION:** Remains should be harden in small portions far from flammable substances. Much amount of heat is emitting in the time of reaction!**TIN PARTLY EMPTY:** See remains of product.**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.  
EmS: F-E, S-E**ICAO/IATA:** No data available.

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**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:**

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**HAZARD SYMBOL(S)**

Xn Harmful

**RISK-PHRASES:**

R10 Flammable.  
R20/21 Harmful by inhalation and in contact with skin.  
R 66 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 46 If swallowed, seek medical advice immediately and show this container or label.

**16. OTHER INFORMATION**

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

R10 Flammable.

R20/21 Harmful by inhalation and in contact with skin.

R36 Irritating to eyes.

R38 Irritating to skin

R 66 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