

SAFETY DATA SHEET

Date of issue: 14.04.2006

Date to update : 11.05.2009

Number: SB_8_23_03

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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-141 ORANGE RED**
- 1.2. Use of the preparation:** Two-component acryl enamel (component A) which are part of SPECTRAL system.
- 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:** Toxic product. Repeated exposure may cause skin dryness or cracking. Danger of cumulative effects. Repeated exposure may cause skin dryness or cracking. Repr. Cat.3 Possible risk of impaired fertility. Repr. Cat.1 May cause harm to the unborn child. Carc. cat.2 May cause cancer. Vapours may cause drowsiness and dizziness.
- DANGEROUS PROPERTIES:** Flammable liquid; avoid contact with strong oxidants. Product dangerous for the environment. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
- 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	3-10%
607-025-00-1	Butyl acetate	204-658-1	123-86-4	R10 R66-67	R: 10-66-67 S: (2-)25	5-15%
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	3-10%
082-010-00-5	lead chromate molybdate sulfate red (C.I. 77605);	235-759-9	12656-85-8	Carc. Cat.2; R45 Repr. Cat.1; R61 Repr. Cat.3; R62 R33 N; R50-53	T; N R: 61-33-45-50/53-62 S: 53-45-60-61	<15%

4. FIRST AID MEASURES

- GENERAL INFORMATION:** See 11 point Product Date 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, lead oxides.
- 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. Do not eat and drink during working with product. Wear suitable protective clothing, gloves and eye/face protection.

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

- *TRGS 900:* MAK: 50ppm, MAK: 270 mg/m³, 1(I),DFG, EU, Y
- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 274 mg/m³, STEL 100ppm, 548 mg/m³, 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/m³, STEL 200ppm, 966 mg/m³

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

PROTECTION OF HANDS: Protective gloves suitable for handling solvents (viton, 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: red
Smell: pungent, penetrating odour
pH: --
Boiling point: 126-190°C
Flash-point: 23°C
Autoignition point: approx.300°C
Explosion limits: % lower: 1.1 vol.% upper: 8.0 vol.% (butyl acetate)
% lower: 1.07 vol.% upper: 10.55 vol.% (Xylene)
Vapour pressure: not available
Density: approx. 1.2 g/cm³ (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, lead oxides 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: LD₅₀ (rat, oral) 5000 mg/kg
 LC₅₀ (rat, inhalation) 4550 ppm/4h
 lead chromate molybdate sulfate red: LD₅₀ (rat, oral) 5000 mg/kg

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.

OTHER (lead chromate molybdate sulfate red): Danger of cumulative effects. Danger of very serious irreversible effects.. Possible risk of impaired fertility. May cause harm to the unborn child.

12. ECOLOGICAL INFORMATION

Ecological studies at the preparation are not available.

Product contains heavy metals lead and chrome. Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment The product is very poorly soluble in water. Keep away from the sewage system, surface water, underground water, and soil.

lead chromate molybdate sulfate red Fish LC50>10000mg/l/96h
 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
 Classification under Hazard to Water: 2
 Butyl acetate: ID-Number: 42
 Classification under Hazard to Water: 1

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!

CLEAN TIN: The tin is subject to cash deposit as guarantee and should be return to manufacturer.
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. MARINE POLLUTANT
 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: lead chromate molybdate sulfate red (C.I. 77605);

HAZARD SYMBOL(S)



T Toxic
N Product dangerous for the environment

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children. Product for professional use only.

RISK-PHRASES:

R10 Flammable
R33 Danger of cumulative effects
R45 May cause cancer
R61 May cause harm to the unborn child
R62 Possible risk of impaired fertility
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

SAFETY-PHRASES:

S ½ Keep locked up and out of the reach of children
S 23 Do not breathe spray.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 38 In case of insufficient ventilation, wear suitable respiratory equipment.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
S 53 Avoid exposure - obtain special instructions before use.
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

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

R33 Danger of cumulative effects

R36 Irritating to eyes;

R38 Irritating to skin.

R45 May cause cancer

R61 May cause harm to the unborn child

R62 Possible risk of impaired fertility

R66 Repeated exposure may cause skin dryness or cracking

R67 Vapours may cause drowsiness and dizziness.

R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

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