

SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1. Identification of the preparation:** SPECTRAL WAVE: SW-004 CLEAR BLACK**1.2. Use of the preparation:** Water based pigment paste, mixed with binder gives base coat designed for car refinsh.

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:** Irritating to eyes. Vapours may cause drowsiness and dizziness.**OTHER:** Avoid contact with strong oxidants.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

EEC No.	Name of the substance	WE No.	CAS No.	Classification of the substance	Marking of the substance	Composition
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	7-10%
603-014-00-0	2-butoksyetanol	203-905-0	111-76-2	Xn; R20/21/22 Xi; R36/38	Xn R: 20/21/22-36/38 S: (2-)36/37-46	7-10%

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:** Induce vomiting. SEEK A MEDICAL EXAMINATION IMMEDIATELY and present Safety data sheet. A suspension of activated charcoal in water, or a liquid petrolatum may be administered.**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.

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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 2-Butoxyethanol CAS: 111-76-2 according to:

- *TRGS 900:* MAK: 20ppm, MAK: 98 mg/m³, 4(II),DFG, H, Y
 - Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 25 mg/m³, STEL 50ppm, Sk, BMGV
- 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 mg/m³, 999mg/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: according to pallet colour
Smell: pungent, penetrating odour
Boiling point: 100°C
Flash-point: 100°C
Autoignition point: approx. 100°C
Explosion limits: % lower:: 2.0 vol% upper: 10.0 vol% (for Propan-2-ol)
Vapour pressure: 42,5 hPa (20°C (20°C) (for Propan-2-ol)
Density: 1.0 g/cm³ (20°C)
Water solubility: soluble

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:

Propan-2-ol:	LD ₅₀ (rat, oral)	>2000 mg/kg
	LD ₅₀ (rat, skin)	>2000 mg/kg
2-butoxyethanol:	LD ₅₀ (rat, inhalation)	>470 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.

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12. ECOLOGICAL INFORMATION

Ecological studies at the preparation are not available.

Propan-2-ol:	ID-Number: 42 Classification under Hazard to Water: 1
2-butoxyethanol:	ID-Number: 47 Classification under Hazard to Water: 1

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 removed and left 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****ADR/RID:** --**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:**HAZARD SYMBOL(S)** Xi Irritant**RISK-PHRASES:** R36 Irritating to eyes
R67 Vapours may cause drowsiness and dizziness.**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 and Phrases from section 2 and 3:

R11 Highly flammable.

R20/21 Harmful by inhalation and in contact with skin

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

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