SPECTRAL WAVE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

1.1. Product identifier
SPECTRAL WAVE

1.2. Relevant identified uses of the substance or mixture and uses advised against
SPECTRAL WAVE – ready to use basecoat, for application with the use of a spray gun. For professional use in car refinish.

1.3. Data of the supplier Safety Data Sheet
NOVOL Sp. z o.o. 
Ul. Żabikowska 7/9
PL 62-052 Komorniki
Tel: +48 61 810-98-00
Fax:+48 61 810-98-09
www.novol.pl
Person responsible for the Safety Data Sheet dokumentacja@novol.pl

1.4. Emergency telephone number
+48 61 810-99-09 (from 7.00 to 15.00)

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture
The mixture was classified as dangerous pursuant to current regulations - see section 15.

Classification 1272/2008/WE:
Acute toxicity (inhal. Dermal, oral), Hazard Category 4 (Acute Tox. 4). Harmful if swallowed, in contact with skin or if inhaled. Serious eye damage/eye irritation, Hazard Category 2. Causes serious eye irritation. Irritating effect on skin, category 2 (Skin Irrit.2). Causes skin irritation.

Classification 1999/45/EC:
Harmful mixture. Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin.

2.2. Label elements:
Contains: 2-butoxyethanol

Pictograms: !

Signal word: Warning
H315 Causes skin irritation.
H319 Causes serious eye irritation.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 Avoid breathing vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a doctor if you feel unwell.

2.3. Other hazards
No available data.
# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.1. Substances
Not applicable.

## 3.2. Mixtures

### Product identification

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Identification numbers</th>
<th>Classification and marking</th>
<th>Concentration [wt%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>WE: 203-905-0 CAS: 111-76-2 Index no.: 603-014-00-0 Registration no.: 01-2119475108-36-XXXX</td>
<td>Classification 67/548/EWG: Xn; R20/21/22 Xi; R36/38 Classification 1272/2008/WE: Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319 Skin Irrit. 2; H315</td>
<td>12-19</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>WE: 200-661-7 CAS: 67-63-0 Index no.: 603-117-00-0 Registration no.: 01-2119457558-25-XXXX</td>
<td>Classification 67/548/EWG: F; R11 Xi; R36 R67 Classification 1272/2008/WE: Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>4-10</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated heavy (contains less than 0.1 % w/w benzene (Einens No 200-753-7)</td>
<td>WE: 265-150-3 CAS: 64742-48-9 Index no.: 649-327-00-6 Registration no.: --</td>
<td>Classification 67/548/EWG: Note H and Note P R10 Xn; R65 Xi; R37 R53 Classification 1272/2008/WE: Carc. 1B; H350 Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 Aquatic Chronic 4; H413</td>
<td>0.1-0.8</td>
</tr>
<tr>
<td>N,N-dimethylethanolamine</td>
<td>WE: 203-542-8 CAS: 108-01-0 Index no.: 603-047-00-0 Registration no.: --</td>
<td>Classification 67/548/EWG: R10 Xn; R20/21/22 C; R34 Classification 1272/2008/WE: Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Skin Corr. 1B; H314</td>
<td>&lt;1.8</td>
</tr>
</tbody>
</table>

Full text of the phrases identifying the types of hazards and R phrases is provided in section 16.

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# SECTION 4: FIRST AID MEASURES

## 4.1. Description of first aid measures

### General information:
See section 11 of the Safety Data Sheet.

### Inhalation:
Take the victim outside into fresh air, ensure quiet surrounding; in case of no breath, apply artificial respiration. Call a doctor.

### Skin:
Take off contaminated clothing. Rinse contaminated skin with plenty of lukewarm water for about 15 minutes. If irritation persists, consult a doctor.
SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures
Eyes:
Rinse immediately with plenty of lukewarm water for about 15 minutes, avoid strong water jet-risk of cornea damage, consult a doctor.

Alimentary tract:
Provoke vomiting. Rinse mouth with water. If conscious, a suspension of activated charcoal in water, or a liquid petrolatum may be administered. Call a doctor.
Person giving first aid should wear medical gloves.

4.2. Most important symptoms and effects, both acute and delayed
Vapours might cause drowsiness and vertigo. Repeated exposure might cause skin dryness or rupture.

4.3. Indications of any immediate medical attention and special treatment needed
Special measures allowing for specialist and immediate aid should be available in the place of work.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media
Powder, foam resistant to alcohols, carbon dioxide, water mist.

5.2. Special hazards arising from the substance or mixture
Fire may cause generation of carbon dioxide and other toxic gases.

5.3. Advice for firefighters
Fire-fighting teams should wear self-contained breathing apparatus and light protective clothing. Cool adjacent tanks by spraying water at a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
For persons not being the members of aid giving staff:
Eliminate sources of ignition. Ensure sufficient ventilation of the room. Avoid direct contact with the released substance. Avoid contact with skin and eyes. Personal protection measures - section 8 of the Safety Data Sheet.

For persons giving aid:
Persons giving aid should wear protective clothing made of coated, impregnated fabric, protective gloves (viton), tight protective glasses and breathing apparatus: gas mask with A type absorber.

6.2. Environmental precautions
Prevent leakage to the sewage system, surface waters, underground waters and soil.

6.3. Methods and materials for containment and cleaning up
Stop the leakage (close the liquid inflow, seal), place damaged container in an emergency container, remove the liquid mechanically and place it in an emergency container. In case of large leakage, embank the area. In case of small amounts, collect with the use of a binding agent (e.g. mica, diatomaceous earth, sand).

6.4. Reference to other sections
Personal protection measures - see section 8 of the Safety Data Sheet.
Disposal considerations - see section 13 of the Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Keep away from heat and fire sources. Prevent leakage to the sewage system, surface waters, underground waters and soil. Use in well ventilated rooms. Do not smoke. Do not inhale fumes. Avoid contact with skin and eyes. Take precaution measures against electrostatic discharge. Use personal protection measures - section 8 of the Safety Data Sheet.

7.2. Conditions for safe storage, including any incompatibilities
Store in tightly sealed, original containers. Do not store near large amounts of organic peroxides and other strong oxidants. Take precaution measures against electrostatic discharge. Store in cool, well ventilated rooms. Protect from low temperatures, the influence of sunrays and heat sources.

7.3. Special end use(s)
SPECTRAL WAVE paste for professional use in car refinishing taking into consideration the information included in subsections 7.1 and 7.2.
SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. Control parameters
No data.

8.2. Exposure control
Respiratory tract protection: Gas mask with A type absorber (EN 141).
Hand protection:
Protective gloves PN-EN 374-3 (viton, 0.7 mm thick, penetration time > 480 min, nitrile rubber, 0.4 mm thick, penetration time > 30 min)
Eye protection:
Tight protective glasses.
Skin protection: Proper protective clothing (coated impregnated fabrics).
Workplace: Fixed fume extraction and general ventilation.
Environmental exposure control: Prevent leakage to the sewage system, surface waters, underground waters and soil.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
Physical state liquid
Colour according to palette’s colour
Odour strong, powerful
Odour threshold no data
pH 8.5
Melting/freezing point no data
Boiling point NA
Flash point about 100°C
Autoignition point NA
Breakdown point not specified
Evaporation rate not specified
Flammability (solid, gas) not applicable
Explosion limits NA
Vapour pressure NA
Vapour density (with regard to air) >1
Density about 1.0 g/cm³ (20°C)
Solubility (in water) soluble
N-octanol/water division ratio 0.05 (Isopropanol)
Viscosity no data
Explosive properties not applicable
Oxidizing properties not applicable

9.2 Other informations
No available data.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
The product is not reactive under normal conditions.

10.2. Chemical stability
The product remains stable under normal conditions.

10.3. Possibility of hazardous reactions
Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.

10.4. Conditions to be avoided
Avoid contact with strongly oxidizing agents, peroxides, strong acids and bases. Avoid generation and accumulation of static electricity. Protect from the influence of sunrays and heat sources.

10.5. Incompatible materials
Avoid contact with large amounts of organic peroxides, strong acids and bases as well as other strong oxidants.

10.6. Hazardous decomposition products
Carbon monoxide and other toxic gases are generated as a result of thermal decomposition.
SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
No experimental data available on the preparation. Evaluation was performed based on the data on dangerous ingredients included in the preparation.

a) Acute toxicity
Isopropanol
LD50 (rat, ingestion)  5045mg/kg
LC50 (rat, inhalation)  16000ppm/8h
2-butoxyethanol
LD50 (rat, ingestion)  470mg/kg
LC50 (rat, inhalation)  450ppm/4h

b) Irritating effect
Skin: irritating to skin and mucous membrane
Eyes: irritating effect

c) Caustic effect
The mixture has not been classified as caustic. No available data confirming the hazard class.

d) Allergenic effects
The mixture has not been classified as allergenic. No available data confirming the hazard class.

e) Toxicity for repeated exposure
Repeated exposure might cause skin dryness or rupture.

f) Cancerogenity
The mixture has not been classified as cancerogenic. No available data confirming the hazard class.

g) Mutagenity
The mixture has not been classified as mutagenic. No available data confirming the hazard class.

h) Harmful effect on reproduction
The mixture has not been classified as having any harmful effect on reproduction. No available data confirming the hazard class.

Exposure methods:
Inhalation: Harmful by inhalation, in contact with skin and if swallowed.
Skin: Irritating to skin.
Eyes: irritating effect.
If swallowed, the substance may cause irritation of the alimentary tract, nausea, vomiting and diarrhoea.

Poisoning symptoms:
Headache and vertigo, fatigue, decreased muscle power, drowsiness and, in exceptional instances, loss of consciousness. Fumes might cause drowsiness and vertigo. Repeated exposure might cause skin dryness or rupture.

SECTION 12: ECOLOGICAL INFORMATION

No experimental data available on the preparation. Evaluation was performed based on the data on dangerous ingredients included in the preparation.

12.1. Toxicity
Isopropanol
Daphnia magna EC50 (48h) > 100 mg/l
Acute toxicity for fish LC50 100 mg/l/48h
Number in the catalogue of water hazardous substances: 135
Water hazard class: 1

2-butoxyethanol
Number in the catalogue of water hazardous substances: 47
Water hazard class: 1

12.2. Persistence and degradability
No data

12.3. Bioaccumulative potential
Isopropanol
Log Pow = 0.05

12.4. Mobility in soil
Product soluble in water.

12.5. Results of PBT and vPvB assessment
No available data.

12.6. Other adverse effects
No available data.
SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
The product must be disposed of in compliance with proper local and statutory regulations with regard to waste - see point 15. The product should be disposed with entities which are authorised to conduct activity in the area of collecting, recycling or utilization of waste.

Product remains:
Do not dispose the product into the sewage system. Do not store with communal waste. Remove the remains of the mixture carefully and leave to dry only in good ventilated rooms. The dried product is not harmful waste.

CAUTION: The remains should be dried in small portions. Keep them away from flammable products. High amounts of heat are released during chemical reaction!

Contaminated container:
A container containing unhardened remains of the product is harmful waste. Do not store with communal waste. The contaminated container should be disposed with entities which are authorized to collection, recover or disposal.

SECTION 14: TRANSPORT INFORMATION

ADR/RID IMO/IMGD IATA-DGR

Product is not dangerous goods.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Directive 67/548/EWG(2006/121/WE)
Directive 91/155/EWG (2001/58/WE)
REACH - Regulation 2006/1907/WE
CLP - Regulation 1272/2008/WE

15.2. Chemical safety assessment
Not performed

SECTION 16: OTHER INFORMATION

Full text of the phrases identifying the types of hazards and R phrases mentioned in sections 2-15
R11 Highly flammable.
R10 Flammable.
R34 Causes burns.
R36 Irritating to eyes.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
Flam.Liq.2/3 Liquid, flammable substances, category 2/3.
H226 Flammable liquid and vapour.
H225 Highly flammable liquid and vapour.
STOT SE 3 Specific target organ toxicity– single exposure, category 3
H335 May cause respiratory irritation.
H336 Might cause drowsiness or or dizziness.
Acute Tox. 4. Acute toxicity, category 4
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 4 Hazardous to the aquatic environment — Chronic Hazard, Category 4
H413 May cause long lasting harmful effects to aquatic life.
**SECTION 16: OTHER INFORMATION**

**Explanation of the abbreviations and acronyms used in the Safety Data Sheet**

- **CAS no** – numerical symbol ascribed to a chemical substance by the American organization, Chemical Abstracts Service (CAS).
- **EC no.** – a number ascribed to a chemical substance in the European List of Notified Chemical Substances (ELINCS) or a number in the European Inventory of Existing Chemical Substances mention in "No-longer polymers" publication (EINECS).
- **MPC** – maximum permissible concentration of health hazardous substances in the workplace.
- **MPIC** – maximum permissible instantaneous concentration.
- **MPCC** – maximum permissible ceiling concentration.
- **PCB** – permissible concentration in biological material.
- **UN number** – four-digit identification number of a substance, preparation or product pursuant to UN model regulations.
- **ADR** – European agreement on international road transport of hazardous materials.
- **IMO** – International Marine Organization.
- **RID** – Regulations for international rail transport of hazardous materials.
- **IMDG-Code** – International marine code for hazardous materials.

The information is based on our current knowledge. This document shall not constitute warranty for product characteristics. Classification of the mixture results from the application of the classification rules contained in Directive 1999/45/EC.

**Other sources of information**

- **ESIS** European Chemical Substances Information System
- **TOXNET** Toxicology Data Network
- **IUCLID** International Uniform Chemical Information Database

**Changes:** General update

**Trainings:**
- With regard to handling, health and safety while working with hazardous substances and mixtures.
- With regard to transport of hazardous goods pursuant to the requirements of ADR regulations.

**Issued by:** NOVOL Sp. z o.o.

Information available from: Research and Development Laboratory, tel. +48 61 810 99 09.