

SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1. Identification of the substance/mixture: SPECTRAL SOLV 845 ACTIVATOR****1.2. Use of the substance/mixture:** SPECTRAL SOLV 845 is SPECTRAL KLAR 545 additive which shortens spraying and drying time clearcoat.**1.3. Company/undertaking identification:** NOVOL Sp. z o.o. Tel: +48 61 810-98-00
ul. Żabikowska 7/9 Fax: +48 61 810-98-09
62-052 Komorniki www.novol.pl**Competent person responsible for the Safety Data Sheet:** dokumentacja@novol.pl
1.4 Emergency tel: +48 61 810-99-09 available: 7.00 – 15.00**2. HAZARD IDENTIFICATION****HEALTH HAZARDS:**

Harmful. Harmful by inhalation. Irritating to eyes and respiratory system. Harmful; may cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking.

DANGEROUS PROPERTIES:

Highly flammable liquid; avoid contact with strong oxidants. Harmful to aquatic organism, 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
606-004-00-4	Isobutyl methyl ketone	203-550-1	108-10-1	F; R11 Xn; R20 Xi; R36/37 R66	F, Xn R: 11-20-36/37-66 S: (2-)9-16-29	35-40%
606-024-00-3	Methyl amyl ketone	203-767-1	110-43-0	R10 Xn; R20/22	Xn R: 10-20/22 S: (2-)24/25	5-10%
607-025-00-1	Butyl acetate	204-658-1	123-86-4	R10 R66-67	R: 10-66-67 S: (2-)25	10-17%
606-029-00-0	Acetylacetone	204-634-0	123-54-6	R10 Xn, R22	Xn R: 10-22-38 S: (2-)21-23-24/25	5-12%
649-356-00-4	Solvent naphtha (petroleum), light arom.*	265-199-0	64742-95-6	Rakotw. Kat. 2; R45 Mutag. Kat. 2; R46 Xn; R65	Xn, N R: 10-37-51/53-65-66-67 S: (2-)23-24-57-60-62	<12
601-024-00-X	Propylbenzene	202-704-5	98-82-8	R10 Xn; R65 Xi; R37 N; R51-53	Xn, N R: 10-37-51/53-65 S: (2-)24-37-61-62	<1,2%
601-025-00-5	1,3,5-trimethylbenzene	203-604-4	108-67-8	R10 Xi; R37 N; R51-53	Xi; N R:10-37-51/53 S: (2-)26-61	<2,6%
601-043-00-3	1,2,4-trimethylbenzene	202-436-9	95-63-6	R10 Xn; R20 Xi; R36/37/38 N; R51-53	Xn; N R:10-20-36/37/38-51/53 S: (2-)26-61	<8,4%
--	dibutyltin dilaurate	201-039-8	77-58-7	Xn, R22, R48/25 Xi, R36 N, R50/53 Repro. Kat.2 R60 Repro. Kat 2 R61 Mutag. Kat.3 R68	T, N R:22-36-48/25-50/53-60-61-68 S: 24-26-36/37/39-45-53-61	<0.47%

*Note H, P and 4; contains less than 0,1 % w/w benzene (Einecs No 200-753-7)

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

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5. FIRE-FIGHTING MEASURES

FIRE EXTINGUISHING SUBSTANCES: Powder, foam, 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.

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 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 Methyl amyl ketone CAS 110-43-0 according to:

- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 50 ppm, 237 mg/m³, STEL 100ppm, 475 mg/m³, Sk
- TRGS 900: MAK: - ppm, MAK: 238 mg/m³, 2(I), EU, H

for methylcyclohexane CAS 108-87-2 according to:

- TRGS 900: MAK: 200ppm, MAK: 810 mg/m³, 2(II),DFG

for Cumene CAS 98-82-8 according to:

- Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]: TWA 25 ppm, 125 mg/m³, STEL 50ppm, 250 mg/m³, Sk
- TRGS 900: MAK: 20ppm, MAK: 100 mg/m³, 2,5 (I), EU, H, Y

for 1,2,4-trimethylbenzene CAS 95-63-6 according to:

- TRGS 900: MAK: 20ppm, MAK: 100 mg/m³, 2(II),DFG,EU, Y

RESPIRATORY TRACT PROTECTION: Gas mask with "A" type absorbing canister (EN 141).

PROTECTION OF HANDS: Protective gloves suitable for handling solvents (viton, nitrile rubber, PN-EN 374-3:1999).

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: colourless
Smell: pungent, penetrating odour
Boiling point: approx. 110°C
Flash-point: approx. 14°C
Autoignition point: approx. 350°C
Explosion limits: ---
Vapour pressure: 21 hPa (20°C) (keton izobutylovo-metylowy)
Density: approx. 0.9 g/cm³ (20°C)
Water solubility: soluble
Partition coefficient n-octanol/water: --
Viscosity: approx. 10 s

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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:	
Isobutyl methyl ketone	LD ₅₀ (rat, oral) >2000 mg/kg
Methyl amyl ketone:	LD ₅₀ (rat, oral) 1,600 mg/kg
	LC ₅₀ (rat, inhalation) 2000-4000 ppm/4h
Butyl acetate:	LD ₅₀ (rat, oral) 14000 mg/kg
	LC ₅₀ (rat, inhalation) 9660 mg/m ³ /8h
Acetylacetone:	LD ₅₀ (rat, oral) 575 mg/kg
Solvent naphta:	LD ₅₀ (rat, oral) 3000 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. May cause lung damage (oedema) if swallowed

12. ECOLOGICAL INFORMATION	
Ecological studies at the preparation are not available.	
Ddibutyltin dilaurate:	Daphnia magna /EC50 0.66 mg/l
Isobutyl methyl ketone	Daphnia magna 100<EC50 <1000 mg/l
Butyl acetale	Daphnia magna /EC50 34,4 mg/l 24h
Acetylacetone:	Daphnia magna /EC50 34,4 mg/l 48h
dibutyltin dilaurate:	Daphnia magna /EC50 0.66 mg/l
Solvent naphta:	Fish EC50 18mg/l/96h
The product iswater soluble. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Keep away from the sewage system, surface water, underground water, and soil. Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment	

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 add to mixed clearcoat with harden. Leave to dry only in well ventilated places.
code of waste: 08 01 11	
ATTENTION:	Remains should be harden in small portions far from flammable substances.
CLEAN TIN:	Tin carefully clean is not harmful waste.
code of waste: 15 01 02	
TIN PARTLY EMPTY:	See remains of product. Tin which contain remains of product is dangerous waste.
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 RELATED MATERIAL 3, II.

UN No.	Name of the raw material	Hazard identification number	Warning label required	Classification Code	Packaging group
1263	PAINT RELATED MATERIAL	33	3	F1	II

IMDG- Code:	PAINT RELATED MATERIAL, CLASS 3, UN 1263, PG II.MARINE POLLUTANT EmS: F-E, <u>S-E</u>
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

1272/2008/WE

Other regulations: ADR (2009-2011) , IMDG Code 2008 Edition

CONTAINS: Isobutyl methyl ketone

HAZARD SYMBOL(S) Xn Harmful
F Highly flammable



RISK-PHRASES:
R11 Highly flammable.
R20 Harmful by inhalation.
R36/37 Irritating to eyes and respiratory system.
R65 Harmful; may cause lung damage if swallowed
R66 Repeated exposure may cause skin dryness or cracking.
R52/53 Harmful to aquatic organism, may cause long-term adverse effects in the aquatic environment

SAFETY-PHRASES:
S (2-) Keep out of the reach of children.
S 16 Keep away of sources of ignition – No smoking.
S 23 Do not breathe vapour/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 62 If swallowed, do not induce vomiting; 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.
R11 Highly flammable.
R20 Harmful by inhalation.
R22 Harmful if swallowed.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R60 May impair fertility.
R61 May cause harm to the unborn child.
R65 Harmful; may cause lung damage if swallowed
R68 Possible risk of irreversible effects.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R50/53 Very toxic to aquatic organism, 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.

Changes: General update.

Training: In terms of conduct, occupational health and safety with hazardous substances and mixtures. In terms of transport of dangerous goods in accordance with the requirements of ADR.

Issued by: NOVOL Sp. z o.o.

Information: Laboratory Research and Development; tel. +48 61 810 99 09