

ENERGY LINE CLEARCOAT

Version 1

Print Date 16/12/2004

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Product name : ENERGY LINE CLEARCOAT

Product code : L0EL0090L0.4

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Colourless clearcoat

Hazardous components :

Components	CAS-No.	EEC-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Xylene	1330-20-7	601-022-00-9	Xn	R20/21, R38, R10	>= 12,5 - < 20
Butanol	71-36-3	603-004-00-6	Xn	R10, R41, R67, R22, R37/38	>= 1 - < 3
Ethyl Methyl Ketone	78-93-3	606-002-00-3	Xi, F	R11, R66, R67, R36	>= 12,5 - < 20
Solvent Naphtha, Light Aromatic	64742-95-6	649-356-00-4	Xn, N	R37, R51/53, R10, R66, R67, R65	>= 5 - < 7
1,2,4-trimethylbenzene	95-63-6	601-043-00-3	N, Xn	R10, R36/37/38, R51/53, R20	>= 1 - < 3
DIMETILETERE	115-10-6	603-019-00-8	F+	R12	>= 30 - < 50
GPL			F+	R12	>= 10 - < 12,5

3. HAZARDS IDENTIFICATION

5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Keep containers and surroundings cool with water spray.
- Extinguishing media which must not be used for safety reasons : Do NOT use water jet.
- Specific hazards during fire fighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.
Cool closed containers exposed to fire with water spray.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- Environmental precautions : Try to prevent the material from entering drains or water courses.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods for cleaning up : Clean with detergents. Avoid solvents.
Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
- Additional advice : Refer to section 15 for specific national regulation.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Avoid exceeding of the given occupational exposure limits (see section 8).
Use only in area provided with appropriate exhaust ventilation.
Avoid contact with skin, eyes and clothing.
Smoking, eating and drinking should be prohibited in the application area.
Avoid inhalation of vapour or mist.
For personal protection see section 8.
Thoroughly mix before using
After using, store in a well-sealed container

Advice on protection against fire and explosion : Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.
When transferring from one container to another apply earthing measures and use conductive hose material.
No sparking tools should be used.
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
No smoking.

Storage

Requirements for storage areas and containers : Observe label precautions.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Solvent vapours are heavier than air and may spread along floors.
Vapours may form explosive mixtures with air.
Electrical installations / working materials must comply with the technological safety standards.
Keep away from sources of ignition - No smoking.
Store between 5° an 35°C in a dry, well ventilated place away from source of heat, ignition and direct sunlight.
Store in accordance with the particular national regulations.

Advice on common storage : Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
Xylene	1330-20-7	221,00	50,00	
Butanol	71-36-3	152,00	50,00	
Ethyl Methyl Ketone	78-93-3	600,00	200,00	
Solvent Naphtha, Light Aromatic	64742-95-6	100,00	50,00	
1,2,4-trimethylbenzene	95-63-6	100,00	20,00	
DIMETILETERE	115-10-6	1.920,00	1.000,00	

Personal protective equipment

- Respiratory protection : Apply technical measures to comply with the occupational exposure limits.
This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment should be worn only for a short period of time.
- Hand protection : For prolonged or repeated contact use protective gloves.
Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
Skin should be washed after contact.
Wash your hands and put on barrier creams
- Eye protection : Chemical resistant goggles must be worn.
- Skin and body protection : Skin should be washed after contact.
Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire.
Personnel should wear protective clothing
Workers should wear antistatic footwear.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : aerosol
- Flash point : < -1 °C
- Solids by weight : 9 %

10. STABILITY AND REACTIVITY

ENERGY LINE CLEARCOAT

Version 1

Print Date 16/12/2004

- Conditions to avoid : Our products were manufactured in compliance with safety standards to avoid decomposition and degrading under the defined conditions. Taking the product type into account, it is advisable to leave the product in its original packaging thus avoiding transferring it.
- Hazardous reactions : Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. TOXICOLOGICAL INFORMATION

- Acute inhalation toxicity : Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects.
Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system.
Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.
Inhalation of airborne droplets may cause irritation of the respiratory tract.

- Note : The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

- Butanol
OBSERVATIONS ON HUMAN SUBJECTS: Exposure through inhalation causes coughing, irritation to the mucous membranes, dermatitis, headache, dizziness and drowsiness, irritation to the nose, throat and eyes, and the formation of translucent vacuoles on the surface layer of the cornea.

- Solvent Naphtha, Light Aromatic
ACUTE: INHALATION: Vapor concentration above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may other nervous system effects. SKIN CONTACT: Low order of toxicity. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. EYE CONTACT: Will cause eye discomfort, but will not injure eye tissue. INGESTION: Small amounts of liquid aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. Minimal toxicity.

12. ECOLOGICAL INFORMATION

- Further information : The product contains dangerous substances for the environment (see chapter n° 2), The concentration of each substance should be borne in mind in assessing the toxicological effects deriving from the preparation.

ENERGY LINE CLEARCOAT

Version 1

Print Date 16/12/2004

Solvent Naphtha, Light
Aromatic

R51/53

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water courses or the soil.
Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

14. TRANSPORT INFORMATION

ADR	:	UN-No	1950
		Class	2
		Code	F
		Packaging group	
		Description of the goods	AEROSOL
IMDG	:	UN-No	1950
		Class	2.1
		EmS	F-D, S-U
		Packaging group	
		Marine pollutant	
		Description of the goods	AEROSOLS

15. REGULATORY INFORMATION

Hazardous components which must be listed on the label:

- Xylene
- 1,2,4-trimethylbenzene

Symbol(s)	:	Xn F+	Harmful Extremely flammable
R-phrase(s)	:	R52/53 R20/21 R36/38 R12	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful by inhalation and in contact with skin. Irritating to eyes and skin. Extremely flammable.
S-phrase(s)	:	S23 S51 S36/37 S2 S9 S13	Do not breathe spray. Use only in well-ventilated areas. Wear suitable protective clothing and gloves. Keep out of reach of children. Keep container in a well-ventilated place. Keep away from food, drink and animal feedingstuffs.

ENERGY LINE CLEARCOAT

Version 1

Print Date 16/12/2004

Exceptional labelling of special preparations : Do not spray on a naked flame or any other incandescent material., Keep away from sources of ignition - No smoking., Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C., Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material., Keep away from children.

National legislationGermany

Risk classification according to BetrSichV (Germany) : AI
 Water contaminating class (Germany) : highly water endangering

16. OTHER INFORMATION**Further information**

Xylene	R20/21 R38 R10	Harmful by inhalation and in contact with skin. Irritating to skin. Flammable.
Butanol	R10 R41 R67 R22 R37/38	Flammable. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness. Harmful if swallowed. Irritating to respiratory system and skin.
Ethyl Methyl Ketone	R11 R66 R67 R36	Highly flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Irritating to eyes.
Solvent Naphtha, Light Aromatic	R37 R51/53 R10 R66 R67 R65	Irritating to respiratory system. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Flammable. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Harmful: may cause lung damage if swallowed.
1,2,4-trimethylbenzene	R10 R36/37/38 R51/53 R20	Flammable. Irritating to eyes, respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful by inhalation.
DIMETILETERE	R12	Extremely flammable.
GPL	R12	Extremely flammable.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or

ENERGY LINE CLEARCOAT

Version 1

Print Date 16/12/2004

quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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SDS updated to the last adjustment of EEC directive 67/548/CE, 1999/45/CE.