

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Product name : MACROFAN 1K TOP COAT BINDER

Product code : LOM50000

Use of the
Substance/Preparation : Colourless clearcoat

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2. HAZARDS IDENTIFICATION



Highly flammable



Irritant

Hazardous components which must be listed on the label:

R-phrases :

Highly flammable.

Risk of serious damage to eyes.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

S-phrases :

Keep container in a well-ventilated place.

Keep away from sources of ignition - No smoking.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Take precautionary measures against static discharges.

Wear suitable protective clothing and eye/face protection.

This material and/or its container must be disposed of as hazardous waste.

SAFETY DATA SHEET according to Regulation (EU) No. 1907/2006
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Revision date 17.04.2008
Version 1

Print Date 23/05/2008

3. 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		Xn	R20/21, R38, R10	>= 1 - < 3
Butanol			Xn	R10, R41, R67, R22, R37/38	>= 10 - < 12,5
Acetone	67-64-1		F, Xi	R11, R36, R66, R67	>= 7 - < 10
Ethyl Acetate	141-78-6		F, Xi	R11, R67, R36, R66	>= 15 - < 20
N-Butyl Acetate	123-86-4			R10, R66, R67	>= 20 - < 30
Ethoxypropylacetate	54839-24-6			R10, R67	>= 1 - < 3

4. FIRST AID MEASURES

- General advice** : When symptoms persist or in all cases of doubt seek medical advice.
Never give anything by mouth to an unconscious person.
- After Inhalation** : Remove to fresh air.
Keep patient warm and at rest.
If breathing is irregular or stopped, administer artificial respiration.
If unconscious place in recovery position and seek medical advice.
- After Skin contact** : Take off all contaminated clothing immediately.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Do NOT use solvents or thinners.
Put shower on working place
- After Eye contact** : Irrigate copiously with clean, fresh water for at least 10 minutes,
holding the eyelids apart.
Remove contact lenses.
Seek medical advice.
Put eye-washer on working place
- After Ingestion** : If accidentally swallowed obtain immediate medical attention.
Keep at rest.
Do not induce vomiting.

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 shall 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

- Personal precautions : Solvent vapours are heavier than air and may spread along floors.
Ensure adequate ventilation.
Use personal protective equipment.
Evacuate personnel to safe areas.
Keep people away from and upwind of spill/leak.
Ventilate the area.
- 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 spillage, and then collect 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). The contaminated area should be cleaned up immediately with a suitable decontaminant. One possible (flammable) decontaminant comprises water (45 parts by volume)/ethanol or isopropanol (50 parts)/ concentrated (d: 0,880) ammonia solution (5 parts). A non flammable alternative is sodium carbonate (5 parts)/ water (95 parts).
Pick up and transfer to properly labelled containers.
Clean contaminated surface thoroughly.
Dam up.
Soak up with inert absorbent material and dispose of as hazardous waste.
- 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			20,00	
Acetone	67-64-1	1.210,00	500,00	
Ethyl Acetate	141-78-6	1.400,00	400,00	
N-Butyl Acetate	123-86-4	713,00 950,00	150,00 200,00	
Ethoxypropylacetate	54839-24-6	597,00	100,00	

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 : liquid
- Flash point : 0 - < 21 °C
- Density : 0,97 g/cm³

Viscosity : > 60 s
Transversale section: 6 mm
Method: 2431 '84 (ISO 6)

Solids by weight : 29,88 %

Volatile organic compounds
(VOC) content : 70,11 %

10. STABILITY AND REACTIVITY

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.

Skin irritation : Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin.
The product may be absorbed through the skin.

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

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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.
Acetone	OBSERVATIONS ON HUMAN SUBJECTS: Acetone's routes of entry to the body are skin absorption, swallowing and, especially, inhalation. It is eliminated through the lungs (40- 70%), in urine (15-30%), and through the skin (10%). Tests carried out with C14 have demonstrated that acetone takes part as an intermediary in the metabolism of lipids and indirectly in the glycidolcycle. Trials on human subjects have demonstrated that it is impossible to inhale concentrations of 22 mg/l (9300 ppm) for more than 5 minutes owing to throat irritation. Subjects exposed to 500 ppm of acetone have displayed irritation to the eyes, throat, and nose. Concentrations > 300 ppm cause: slight irritation to the mucous membranes. Concentrations = 800 ppm (30') cause: malaise. DL (oral, estimated) = 50 ml
Ethyl Acetate	OBSERVATIONS ON HUMAN SUBJECTS: 400 ppm: eye irritant. Serious toxic effects at 2,000 ppm/60 mins, symptoms of malaise at 800 ppm. Inhalatory toxicity: TCLo 400 ppm, irritation to nose, eyes, and respiratory system.
N-Butyl Acetate	OBSERVATIONS ON HUMAN SUBJECTS: Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose. Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose. Inhaling the vapours can irritate the respiratory system. The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation. Symptoms of illness at 500 ppm. Serious toxic effects at 2,000 ppm for 60 min. TCLo: 200 ppm

12. ECOLOGICAL INFORMATION

Further information : There is no data available for this product.

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

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ADR	: UN-Number	1263
	Class	3
	Packing instruction (LQ)	F1
	Packaging group	II
	Description of the goods	PAINT
IMDG	: UN-Number	1263
	Class	3
	EmS	F-E, S-E
	Packaging group	II
	Description of the goods	PAINT
IATA	: UN-Number	1263
	Class	3
	Packaging group	II
	Description of the goods	Paint

15. REGULATORY INFORMATION

Hazardous components which must be listed on the label:

Symbol(s)	: F Xi	Highly flammable Irritant
R-phrases(s)	: R11 R41 R66 R67	Highly flammable. Risk of serious damage to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.
S-phrases(s)	: S 9 S16 S26 S33 S36/39 S60	Keep container in a well-ventilated place. Keep away from sources of ignition - No smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take precautionary measures against static discharges. Wear suitable protective clothing and eye/face protection. This material and/or its container must be disposed of as hazardous waste.

National legislation

Germany

Risk classification according to BetrSichV (Germany)	: AI
Water contaminating class (Germany)	: WGK 1slightly water endangering

16. OTHER INFORMATION

Further information

Xylene	R20/21	Harmful by inhalation and in contact with skin.
	R38	Irritating to skin.
	R10	Flammable.
Butanol	R10	Flammable.
	R41	Risk of serious damage to eyes.
	R67	Vapours may cause drowsiness and dizziness.
	R22	Harmful if swallowed.
	R37/38	Irritating to respiratory system and skin.
Acetone	R11	Highly flammable.
	R36	Irritating to eyes.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
Ethyl Acetate	R11	Highly flammable.
	R67	Vapours may cause drowsiness and dizziness.
	R36	Irritating to eyes.
	R66	Repeated exposure may cause skin dryness or cracking.
N-Butyl Acetate	R10	Flammable.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
Ethoxypropylacetate	R10	Flammable.
	R67	Vapours may cause drowsiness and dizziness.

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 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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This safety datasheet has been prepared according to European Union legislation.