

MATERIAL SAFETY DATA SHEET

MSDS Name: Clearcoat

MSDS Creation Date: 2022-01-01

Edition: 2.0

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SECTION 1 PRODUCTION AND COMPANY IDENTIFICATION

Product Identification:-

-Trade Name: Clearcoat

-Application/Formula: Automotive refinish exclusively.

Manufacturer / Supplier Identification:

- Manufacturer: Vehicolor Limited

Zip code: 511363

Tel: 0086-20-83791220

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

2. Chemical ingredients: Mixture of synthesized resin and organic solvents.

<u>Harmful composition</u>	<u>CAS NO.</u>	<u>Weight %</u>	<u>Category</u>
n-butyl acetate	123-86-4	10-30	R 66-67
Ethyl-3-ethoxypropionate	763-69-6	5-10	-
1,2,4-Trimethylbenzene	95-63-6	1-5	Xn; R20-36/37/38
Xylene	1330-20-7	5-10	Xn; R 20/21-38
Aromatic hydrocarbons (150-190)	64742-95-6	5-10	Xn; R 37-65-66-67

R20– Harmful by inhalation;

R38 – Irritating to skins;

R20/21 – Harmful by inhalation and in contact with skin;

R65 – Harmful; may cause lung damage if swallowed;

R65 –Harmful; may cause lung damage if swallowed;

R36/37/38–Irritating to eyes, respiratory system and skin;

R66 – Repeated exposure may cause skin dryness or cracking;

R37 – Irritating to respiratory system;

R67 – Vapors may cause drowsiness and dizziness.

SECTION 3 HAZARDS IDENTIFICATION

Potential Health Effects:

Emergency Overview:

Warning: Class 3.3 Flammable-Irritating-Harmful-Harmful to environment-Sensitization-Hazard.

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Flammable; Irritating to skin; Harmful by inhalation and in contact with skin; Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Be allergic in contact with skin or by inhalation.

Uniform standards for drugs and toxins cataloging: S5.

Special Hazard: Unknown.

SECTION 4 FIRST AID MEASURES

- General Information:

Get medical aid immediately if symptoms persist or appear other doubts; Do not let unconscious person swallow anything.

- Inhalation:

Remove from exposure and move to fresh air immediately. keep victim warm and resting. If not breathing or breathing difficult, give artificial respiration. If victim is unconscious, keep lie on side and get medical aid.

- Skin:

Prohibiting the use of solvent and thinner, Immediately flush skin with soap and plenty of water or certified skin cleaner for a long time.

- Eye:

Remove contact lenses, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

- Ingestion:

Get medical aid immediately if accidentally swallowed. Keep rest and non-emetic.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media

Suitable: Use dry chemical, CO2, water spray (fog) or foam

Not suitable: Do not use water jet.

Special hazards from the product itself, side products and gas by combustion.

Decomposition products may include the following materials: carbon oxides

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Other advice: to cool a closed container in the fire by fog attack.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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-Personal protection:

Keep away from ignition source, use proper personal protective equipment as indicated in Section 7 and 8. keep ventilation and refuse vapor contact.

-Environmental protection:

Discharging is prohibited, Inform local government according to regulations if local river, pool and waste water are contaminated.

-Spills/Leaks:

Absorb spill or collect leaks with inert material (e.g. vermiculite, sand or earth, kieselguhr), then place in suitable container, disposal in accordance with local regulations. avoid using solvent.

Part 7 HANDLING AND STORAGE

Handling precautions

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Do not breathe vapor or mist. Do not swallow. Do not get in eyes or on skin or clothing. Avoid shock and friction. Avoid all possible sources of ignition (spark or flame). Use only with adequate ventilation. Wear appropriate respirator when ventilations inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. Vapors are heavier than air and may spread along floors. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Keep away from combustible material. Empty containers retain product residue and can be hazardous. Do not reuse container. If this material is part of a multiple component system, read the Material Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Precautions to prevent igniting and blast

Steam of solvent is heavier than air, thus could spread over the floor. The steam and the air together could form an explosive mixture.

Precautions for storage:

Requirements for storage area and container:

Keep the container hermetically sealed. Never clear up the container with pressure. Smoking Strictly Prohibited. People are not allowed to enter without permission. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Keep it far from an oxidizer, strong acid or alkaline

Materials have to stay in the container. Follow the safety measures. Stay far away from heat

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source and avoid strong sunlight. Keep away from source ignition.

SECTION 8 EXPOSURE CONTROL, PERSONAL PROTECTION

Exposure limit:

N-butyl acetate: Safety data TWA = 150 ppm = 713 mg/m³, STEL = 200 ppm = 950 mg/m³;

2-Butoxyethyl acetate: AEL(8 h TWA)=10 ml/m³, skin;

1,2,4-Trimethylbenzene: Safety data TWA = 25 ppm = 123 mg/m³;

Dimethylbenzene: Safety data TWA = 80 ppm = 350 mg/m³; STEL = 150 ppm = 655 mg/m³;

Aromatic hydrocarbons (150-190): AEL(8h TWA) = 50 ml/m³;

Notes: TWA – Time-weighted Average: STEL – Short-term Exposure Limit: AEL – Acceptable Exposure Limit.

Other recommendations:

Unless otherwise provided, HSE Management Memorandum EH40 (2001) must be complied and inhalation of spray dust must meet Occupational exposure limits EH40. For more information on respiratory protective please refer to the HSE publication "Respiratory protective equipment" third edition ISBN 011 8863827.

Exposure measures:

Keep ventilation for occupational staff, or wear appropriate respirator when it is necessary.

- Respiration protection

When workers face the concentration which is higher than exposure limits, they must use the appropriate and reliable respirator.

- Eye protection

Wear protective glasses to prevent solvent splash

- Skin protection

Personnel should wear an antistatic protective clothing or high temperature protective clothing made of man-made fibers.

- Protective measures / health measures

Clean the skin with soap and water or an approved skin cleanser thoroughly. Avoid the use of organic solvents

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Physical state:	Liquid
	Color:	Clear
	Odor:	Solvent-like odor
PH: (°C)		
Flash Point:	27 °C	Closed up test
Autoignition Temperature:	421 °C	

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Relative Density : (20 °C)	From 0.95 kg/l to 1.00 kg/l	
Solubility in water (°C)	Insoluble g/l	
Viscosity: (23°C)	40-60 s	Tu-4 cup viscometer
Explosion Limits, -lower:	0.7 vol. %	
-upper:	8.5 vol. %	

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability:

Stable under recommended storage conditions.(See Section 7)

Conditions to Avoid:

Avoid exothermic reaction, away from oxidizing agents, strong base and strong acid, etc.

Hazardous Decomposition products:

Exposure to high temperature may produce hazardous products: Carbon Oxide Carbon dioxide, smoke, nitrogen oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

It is harmful to the health when one is in more than occupational exposure limits described in the component solvent vapor concentrations, such as irritating to mucosa and respiratory system, as well as adverse effects on kidney, liver and central nervous system. Signs and symptoms include headache, dizziness, fatigue, weakness, drowsiness, etc., in extreme cases coma.

Acute toxicity:

No data on the product itself.

Local effects:

Repeated or prolonged contact with skin may cause lipa loss, lead to non-allergic contact dermatitis, or absorbed through skin. Liquid splashed into the eyes can cause irritation and reversible damage.

SECTION 12 ECOLOGICAL INFORMATION

Ecological impact: not available

SECTION 13 DISPOSAL CONSIDERATIONS

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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Suggestion: empty containers should be cracked and or recycled for use. The container which is not completely empty is hazardous waste.

SECTION 14 TRANSPORT INFORMATION

Inland Transport:

1. Classified as Class 3 Organic peroxides in Name List of Dangerous Goods (GB12268-90);
2. Regulation of Automobile Transport of Dangerous Goods (JT3130-88) has made specific provisions on its

Road Transport.

3. Rule of Rail Transport of Dangerous Goods (Rail transport [1995] No. 104) has made specific provisions on its Rail Transport.

4. Regulation of Waterway Transport of Dangerous Goods (November 4, 1996 Traffic Order No. 10 issued in 1996) has made specific provisions on its Waterway Transport.

5. Dangerous Goods Transport Regulations of Chinese Civil Aviation (February 27, 1996 CAAC Order No. 48 setting), has made specific provisions on its Air Transport.

International Transport: UN No.: 1263

Road, rail, sea and air transportation are available only in accordance with road and rail transport of dangerous goods (classification / packaging and labeling).

Road/Rail Transport:

Environment Protection Group(EPG): 3C1

Dangerous Chemical: 3[Y]

Hazard Class: 3 Item: 31(c) Risk Label: 3

Transport Emergency Card:30G80 HI/UN No.:

Shipping Name: Automotive Refinish

International Civil Aviation Organization (ICAO):

UN/ID No.: 1263 Hazard Class: 3 Sub Risk:

Packing Group: III Risk Label: Flammable Liquid

Shipping Name: Automotive Refinish

International Maritime Organization(IMO):

Hazard Class: 3.3

Page of International Maritime Dangerous Goods(IMDG): 3372 Sub Risk:

Packing group: III Risk Label: Flammable Liquid

Emergency Procedure Schedule (EmS):F-E, S-E

Medical First Aid Guide(MFAG):310

Shipping Name: Automotive Refinish

SECTION 15 REGULATORY INFORMATION

Domestic Regulations:

Name List of Dangerous Goods (GB12268-90),

Regulation of Automobile Transport of Dangerous Goods (JT3130-88).

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Rule of Rail Transport of Dangerous Goods (Rail transport [1995] No. 104).
Regulation of Waterway Transport of Dangerous Goods (November 4 1996 Ministry of Communication Order No. 10 issued in 1996).
Dangerous Goods Transport Regulations of Chinese Civil Aviation (February 27th, 1996 CAAC Order No. 48 setting).

International Regulations:

In accordance with Laws and Regulations of CHIP(2002) ,
Hazard Symbols: Xn –Harmful

Contains mixture of 2-Heptanone,
 α -3-(3-(2H-benzotriazol-2-yl)-5- tert-butyl-4-hydroxyphenyl) propionyl- ω -hydroxyl-propesterone (steroid) pregnenolone (ethylene oxide), α -3 - (3 ...; methyl 1,2,2,6,6 - pentamethyl -4 -piperidyl sebacate and bis (1,2,2,6,6 - pentamethyl-4 -piperidyl) sebacate, which may cause allergic reactions.

Risk Phrases:

R10 Flammable.

R_{20/22} Harmful by inhalation and if swallowed.

R_{52/53} Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Phrases:

S23 Do not breathe vapor.

S46 If swallowed, seek medical advice immediately and show this container or label .

S51 Use only in well-ventilated areas.

S57 Use appropriate containment to avoid environmental contamination

S61 Avoid release to the environment, Refer to special instructions/ safety data sheet

Swallow forbidden !

The information above is believed to be accurate and satisfied with European and National law requirements based on our current knowledge. However, we make no warranty of availability for any conditions beyond our knowledge and control, and we assume no liability resulting from other use beyond above unless special written permission. Users should make their own responsibility to take necessary measures for laws and rules purposes. In no way shall the company be liable for any guarantee and specifications because of information above just giving to guide the safety operation, use, processing, storage, transportation, disposal of waste and leakage, etc.. Related information is only for specific substance specified, for such material used in combination with any other substance, or in any process using is invalid, unless otherwise stated in the description.