

MATERIAL SAFETY DATA SHEET

(GB/T 16483, GB/T 17519)

Product name: MAV 670 SUPER SONIC EURO CLEARCOAT HARDENER-FAST

Revised date: Nov 30, 2020 MSDS No.: MS-QMAV-H2001

Initial issue date: Apr 20, 2013 Version No.: 4.04

SECTION 1 Product and company identification

Product name: MAV 670 SUPER SONIC EURO CLEARCOAT HARDENER-FAST

Manufacturer: Morgan Distribution

Address: 4930 Old Maumee Rd. Suite 156 Fort Wayne, IN. 46803

Tel: 260-748-2311

E-mail: info@morgandist.com

Product usage: Basecoat for automotive refinishing. Professional use only.

SECTION 2 Hazards identification

Emergency Outline:

Viscous flammable liquid and vapor with slight odor. Its vapor forms explosive mixtures when meets air. May cause combustion and explosion when meets with open flames and high heat. Easy to generate and accumulate static electricity. Fast flow velocity. It may cause eye, nose and throat irritation. May cause central nervous system depression if inhaled.

GHS hazards categories:

Flammable liquids	Category 3	H226-flammable liquid and vapor
Acute toxicity (skin)	Category 4	H312-harmful in contact with skin
Acute toxicity (inhalation)	Category 4	H332-harmful if inhaled
Skin irritation	Category 2	H315-causes skin irritation
Eye irritation	Category 2A	H319-causes serious eye irritation
Reproduction toxicity	Category 2	H361-suspected injury to fertility or fetus
Specific target organ toxicity (single	Category 3	H336- may cause drowsiness or dizziness
exposure)		
Acute hazard to the aquatic environment	Category 3	H402-very toxic to aquatic life
Long-term aquatic hazard	Category 3	H412-harmful to aquatic life with long
		lasting effects

Label elements:



Hazard pictograms:

Signal word: Warning

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Precautionary statements:

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PROVA	ation.
Prevei	ıuvıı.

P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use
	non-sparking tools.
P243	Take action to prevent static discharges.
P241	Use explosive-proof [electrical/ventilating/lighting] equipment.
P280	Wear protective glove/protective clothing/eye protection/face protection
P261	Avoid breathing dust/fume/gas/mist/vapor/spray.

Response to accidents:

P273

P312	Call a POISON CENTER/doctor/if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin
	with water [or shower]. If irritation gets worse (redness, rash, blister), get medical
	attention immediately.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P370+P378	In case of fire: Useto extinguish.
P391	Collect spillage.

Safe storage:

P403+P235 Store in a well-ventilated place.

Avoid release to the environment.

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to...

Physical and chemical hazards:

Flammable liquid and vapor.

Health hazards:

It is hazardous if inhaled or on skin. It causes skin irritation and severe eye irritation, and it may cause respiration tract irritation.

Environmental hazards:

It is hazardous to aquatic life with long lasting effects.

SECTION 3 Composition/information on ingredients

Substance /mixture: mixture

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product ingredient:

Chemical name	%	CAS Number
Butyl acetate	50-60	123-86-4
Ethyl acetate	5-10	141-78-6
Resin curing agent	30-40	N/A

SECTION 4 First aid measures

Description of first aid measures:

Inhalation: Remove to fresh air. Keep person warm and at rest in a position comfortable for breathing.

Skin contact: Take off immediately all contaminated clothing. Rinse skin thoroughly with soap water. If irritation gets worse (redness, rash, blister), get medical attention immediately.

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart. Seek immediate medical advice.

Protection of first aiders: the rescuer should wear an appropriate mask or self-contained breathing apparatus before enter accident scene.

Notes to physician: the harmful ingredients are displayed in section 3 and 11.

SECTION 5 Firefighting measures

Extinguishing media:

Use dry chemical, sand, foam or CO2 extinguishers. Do not use water jet directly.

Special hazards:

Flammable liquid and vapor. Its vapor forms explosive mixtures when meets air. May cause combustion and explosion when meets with open flames and high heat. Fast flow velocity. Easy to generate and accumulate static electricity.

Special firefighting procedure and advice for protection:

Remove and process liquids from fire area in case of environment pollution. Fire-fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) and stand on upwind area for firefighting.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Be stored in well-ventilated place and keep away from ignition sources.

Ensure all devices are grounded while they are working.

Emergency responders should wear full protective clothing and self-contained breathing apparatus during clean-up. Follow the safety regulations.

Environmental precaution:

Avoid discharge into drains and water pipes. Inform the relevant authorities if there are pollutions entering into the rivers, lakes or waterways.

Methods and material for containment and cleaning up:

Small spills: Absorb with activated carbon or other inert material or wash out with lotion made by incombustible dispersant. After diluting, place it in an appropriate waste disposal container.

Large spills: Dike the spilled material and confine the sewers, where this is possible. Cover with foam to prevent evaporation. Collect and transfer spillage with explosive-proof pump, and place in tank trucks or

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containers for later recycle or disposal.

SECTION 7 Handling and storage

Precautions for safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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The operator should wear antistatic clothing and shoes and put on rubber oil-resistant gloves.

Workplace should be partial or comprehensive ventilated.

Use explosion-proof ventilation and equipment.

Filling speed should be controlled.

Grounding device is needed to prevent static accumulation.

Loading and unloading should be careful in order to prevent the damage of package and container.

Avoid contact with eyes, skin. Do not breathe mist or vapor.

Eating, drinking and smoking are prohibited in areas where this material is handled, stored and processed.

Conditions for safe storage, including any compatibility:

Store in a cool and well-ventilated warehouse.

Keep away from heat, direct sunlight or any source of ignition. Storage temperature: 0-35°C. Stored in a tightly closed container. Separate from oxidizing materials.

Use explosive lightning and ventilation devices with the switch outside the warehouse. Equipped with corresponding firefighting equipment with certain quality and quantity.

Barrel stacking should not be too large because it must keep a certain distance with wall, ceiling, column and fire inspection walkway.

Use only non-sparking tools and devices.

The storage area should be provided with a leak emergency operation device and appropriate containers.

SECTION 8 Exposure controls/personal protection

Occupational exposure limits:

Ingredient name	Maximum allowable concentration	Standard
Butyl acetate	PC-STEL: 300mg/m ³ ; PC-TWA: 200mg/m ³	GBZ 2.1 OEL (China)
	STEL: 200ppm; TWA: 150ppm	ACGIH TLV (USA)
Ethyl acetate	PC-STEL: 300mg/m ³ ; PC-TWA: 200mg/m ³	GBZ 2.1 OEL (China)

Methods of monitoring:

Method for determination of toxic substances in the air of workplace: Solvent Analysis-gas chromatography in GBZ/T 160.42, thermal desorption-gas chromatography, non-pump sampling -gas chromatography.

Engineering controls:

As flammable liquid separated workplace is needed. The operation should be done in a closed place, in order to prevent vapor leaking in the air. Promote ventilation and maintain the airborne concentrations below the occupation exposure limits. Set up automatic alarm and accidental ventilation equipment. Emergency exits and risk-elimination areas are necessary. Set up communication alarm system. Red zone warning line, warning signs and Chinese warning instructions are needed.

Personal protective equipment:

Respiration protection: If engineering controls do not maintain airborne concentrations below recommended

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exposure limits (where applicable), a self-absorption filter mask (half mask) must be worn. When emergency rescue or evacuation occurs, workers should wear air respirator or oxygen breathing apparatus.

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Eye protection: wear safety goggles with side shields.

Skin/body protection: wear appropriate chemical resistant clothing.

Hand protection: wear rubber oil-resistant gloves.

SETION 9 Physical and chemical properties

Appearance and character: Transparent mucus

Boiling point (°C): 105-266 Flash point (°C): 29 (closed cup)

Upper/lower flammability or explosive limits:

Flammability limit – lower (%): N/A
Flammability limit – upper (%): N/A
Viscosity (-4 cup, second, 30°C): 10-50

VOC (g/L): 570-670

Relative density (assume water as 1): 0.94

Solubility: Hardly soluble in water

SECTION 10 Stability and reactivity

Stability: The product is stable.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Avoid static electricity, high heat, open flames.

Incompatible materials: Strong acids, strong oxidizing agents, and strong alkali.

Hazardous decomposition products: No hazardous decomposition products are known under the condition of

normal use.

SECTION 11 Toxicological information

Acute toxicity:

Ingredient name	Result	Species	Dose	Exposure
Butyl acetate	LC50 Vapor Inhalation Rat		390ppm	4 hours
	LD50 Dermal	Rabbit	>17600mg/kg	-
	LD50 Oral	Rat	10768mg/kg	-
Ethyl acetate	LC50 Vapor Inhalation	Rat	>22.5g/L	6 hours
	LD50 Oral	Rat	10170mg/kg	-
	LD50 Dermal	Rabbit	>18000mg/kg	-

Irritation/corrosion:

Ingredient name	Exposure pathway	Result	Species	Dose/time	Observation
Putul agotata	Eye	Moderate irritant	Rabbit	100mg	-
Butyl acetate	Skin	Moderate irritant	Rabbit	500mg/24h	-

Reproductive toxicity:

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Butyl acetate: Rat inhaled a minimum toxic concentration (TCL₀) of 1500ppm/7h (7-16 days of gestation), which resulting in fetal toxicity and skeletal dysplasia.

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Specific target organ toxicity – single exposure:

Butyl acetate: Affects the central nervous system, may cause drowsiness or dizziness

Specific target organ toxicity – repeated exposure:

N/A

Aspiration hazards:

May cause nasal and throat irritation. It may cause neurasthenia. The typical symptoms are: headache, drowsiness, nausea, teetering, confusion of consciousness, and unconsciousness.

Ingestion hazard: It may cause gastrointestinal discomfort.

Contact hazards:

It may cause eye irritation or burns, even skin irritation with repeated or long-term contact. Discomfort and dermatitis may occur as well.

SECTION 12 Ecological information

Ecological toxicity:

Ingredient name	Result	Species	Exposure
Butyl acetate	Acute LC50 32000μg/L seawater	Crustacean- Artemiasalina	48hours
	Acute LC50 62000μg/L	Fish- Daniorerio	96hours
Ethyl acetate	Acute LC50 230mg/L freshwater	Fish- Pimephalespromelas	96hours
	Acute EC50 717mg/L freshwater	Daphnia -Daphnia magna	48hours

Persistence and degradability: Not available **Bio-accumulative potential:** Not available

Mobility in soil: No data available

SECTION 13 Disposal considerations

Chemical waste treatment methods:

Recommend the treatment method of transferring waste into energy if possible. Incineration or landfill should only be considered when recycling is not feasible. Discharging the product into the sewage is prohibited.

Contaminated package treatment methods:

Empty containers should be taken to an approved waste handling site for recycling or disposal. If not, disposal should be in accordance with applicable regional laws and regulations.

Notes for disposal:

The applicable regional, national regulations should be read before disposal.

SECTION 14 Transport information

UN number: UN 1263

UN proper shipping name: Paint related material

Transport hazard class (es): 3

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Danger Pictograms:



Packing group: III

Package label: flammable liquid

Marine pollutant substances: Not applicable

International shipping regulations:

United States Department of transportation: 49CFR rating: 3 (flammable liquid and vapor).

Marine, IMDG rating: 3 (flammable liquid and vapor). **Shipping, IATA rating:** 3 (flammable liquid and vapor).

Notes for transport:

The transportation vehicles shall be equipped with corresponding firefighting equipment and emergency treatment devices.

All transporting trucks should have grounded devices.

It cannot be transported with oxidant and food chemicals.

Transportation should prevent insolation, rain, and high temperature. Morning and evening transport are recommended.

Stay away from fire, heat, high temperature zone when stopover.

The vehicle exhaust pipe must be equipped with a fire-retardant device and use only non-sparking machines and tools for loading and unloading.

Drivers should follow the driven routes. Do not stay in residential areas and densely populated areas. Do not use wooden, cement ships for bulk transportation because it will pollute the ocean if it leaks.

SECTION 15 Regulatory information

Applicable laws and regulations:

Safe Production Law of the People's Republic of China

Code of Occupational Disease Prevention of PRC

Environmental Protection Law of the People's Republic of China

Laws of the People's Republic of China on the Prevention and Control of Atmospheric Pollution

Marine Environment Protection Law of the People's Republic of China

Law of the People's Republic of China on the prevention and control of environmental pollution by solid wastes

Fire Control Law of the People's Republic of China

Regulations on the Control over Safety of Dangerous chemicals

Occupational Exposure Limits for Hazardous Agents in the Workplace (part 1: chemical hazardous agents) (GBZ 2.1)

Occupational Exposure Limits for Hazardous Agents in the Workplace (part 2: Physical Agents) (GBZ 2.2)

General Rules for Chemical Classification and Risk Disclosure (GB 13690)

National Hazardous Waste List

General Rules for Storage of Dangerous Chemicals (GB 15603)

List of Dangerous Goods (GB 12268)

Classification and Code of Dangerous Goods (GB 6944)

Labels for Packages of Dangerous Goods (GB 190)

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SECTION 16 Other information

Key to abbreviations:

MAC --Maximum Allowable Concentration: refers to the concentration of toxic chemicals that should not exceed at any time during a working day in the workplace.

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PC-TWA -- Permissible Concentration-Time Weighted Average: refers to the average level of allowable contact in the stated working day of 8 hours.

PC-STEL ---Permissible Concentration- Short Term Exposure Limit: refer to the time weighted average for any allowable contact less than 15 minutes within 8 hours.

ACGIH TWA--- American Conference of Governmental Industrial Hygienists- Time weighted average

ACGIH STEL--- American Conference of Governmental Industrial Hygienists- Short Term Exposure Limit

 LD_{50} : It refers to lethal dose with oral and dermal exposure. In statistics, it is expected to cause 50% individual deaths in a group of subjects.

 LC_{50} : It refers to lethal concentration with respiration inhalation. In statistics, it is expected to cause 50% individual deaths in a group of subjects.

EC₅₀: It refers to the concentration that can cause the 50% of maximal effect.

References:

- 1. Zhou Guotai, *Hazardous chemicals safety technology*, Chemical Industry Press, 1997.
- 2. State Environmental Protection Administration of toxic chemicals management & Beijing Institute of chemical research, *Handbook of Environmental Data for Environmental Regulations*, China Environmental Science Press, 1992.
- 3. Cheng nenglin, Solvent Handbook, Chemical Industry Press, 1994.
- 4. Canadian Centre for Occupational Health and Safety. CHEMINFO Database, 1989.

Disclaimer:

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products, and to recommend precautionary measures for the storage and handling of the products. The users should have their own ideas about the practical appliance of this MSDS. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the product.

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