

METALSTAR LOW VOC 06-5000 NON-LEAFING SILVER

Version	Revision Date:	SDS Number:	Date of last issue: 01/17/2024
4.1	03/26/2025	102000031132	Date of first issue: 01/30/2019

SECTION 1. IDENTIFICATION

Product name Product code	:	METALSTAR LOW VOC 06-5000 NON-LEAFING SILVER 045962D00
Manufacturer or supplier's	deta	ails
Company name of supplier	:	ECKART America Corporation
Address	:	830 East Erie Street
		Painesville OH 44077
Telephone	:	866-458-7837
		(440) 954-7600
Telefax	:	(440) 354-6224
e-mail adresse	:	info.eckart.america.oh@altana.com
Emergency telephone	:	CHEMTREC: 800-424-9300
		CHEMTREC: 1-703-527-3387 (International)
		NCEC:
		(contract no. ECKART29003-NCEC)
		US: +1 866 928 0789 (Toll free)
		Canada: +1 800 579 7421 (Toll Free)
		Mexico: +52 55 5004 8763

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in acco 1910.1200)	GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)		A Hazard Communication Standard (29 CFR
Skin sensitization	:	Category 1	
GHS label elements			
Hazard pictograms	:		
Signal Word	:	Warning	
Hazard Statements	:	H317 May caus	e an allergic skin reaction.
Precautionary Statements	:	Prevention: P261 P272	Avoid breathing mist or vapors. Contaminated work clothing must not be allowed out of the workplace.



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		P280	Wear protective gloves.
		Response:	
		P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
		P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
		P363	Wash contaminated clothing before reuse.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients which must be listed on the label:

9-Octadecenoic acid (9Z)-, cobalt salt (1:?)

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum	7429-90-5	>= 10 - < 20
Safflower oil	8001-23-8	>= 5 - < 10
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 5 - < 10
9-Octadecenoic acid (9Z)-, cobalt salt (1:?)	14666-94-5	>= 0.1 - < 1
Actual concentration is withheld as a trade s	ecret	

SECTION 4. FIRST AID MEASURES

General advice	: Take the victim into fresh air. Move out of dangerous area.
	Show this material safety data sheet to the doctor in attendance.
	Do not leave the victim unattended.
If inhaled	: Remove to fresh air.
	If unconscious, place in recovery position and seek medical advice.
	If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with soap and plenty of water.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses.

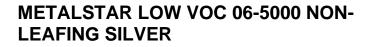


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If swallowed Most important symptoms and effects, both acute and delayed		:	If eye irritation persists, consult a specialist. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. May cause an allergic skin reaction.		
SECTIO	N 5. FIRE-FIGHTING ME	ASI	JRES		
Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire fighting		:	Dry sand ABC powder Foam High volume wate Carbon dioxide (C Do not allow run-o courses.		
Spe	Further information Special protective equipment for fire-fighters		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. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Wear self-contained breathing apparatus for firefighting if necessary.		
SECTIO	N 6. ACCIDENTAL RELE	AS	E MEASURES		
prot	sonal precautions, ective equipment and orgency procedures	:	Evacuate personr	nel to safe areas.	

General advice	:	The product should not be allowed to enter drains, water courses or the soil. Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
Environmental precautions	:	The product should not be allowed to enter drains, water courses or the soil.
		Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.





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	ids and materials for nment and cleaning up	Soak up with ine acid binder, univ Soak up with ine acid binder, univ	handling equipment. rt absorbent material (e.g. sand, silica gel, ersal binder, sawdust). rt absorbent material (e.g. sand, silica gel, ersal binder, sawdust). closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.
Technical measures/Precautions	:	Protect from humidity and water.
Materials to avoid	:	Do not store near acids. Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. No materials to be especially mentioned.
Further information on storage stability	:	No decomposition if stored and applied as directed.





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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable particulate matter)	1 mg/m3	ACGIH
		TWA	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Total)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (Respirable fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (total dust)	15 mg/m3 (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1
		TWA (Total dust)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA	5 mg/m3	NIOSH REL



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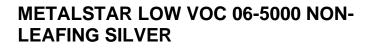
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			(welding fumes)	(Aluminum)	
			TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
			TWA (Respirable particulate	1 mg/m3 (Aluminum)	ACGIH

		particulate matter)	(, iterminality)	
		TWA (Fumes)	5 mg/m3	OSHA P0
		TWA (powder)	5 mg/m3 (Aluminum)	OSHA P0
Safflower oil	8001-23-8	TWA (mist - total)	10 mg/m3	NIOSH REL
		TWA (mist - respirable)	5 mg/m3	NIOSH REL
Distillates (petroleum), hydrotreated middle	64742-46-7	TWA	500 ppm 2,000 mg/m3	OSHA Z-1
		TWA	400 ppm 1,600 mg/m3	OSHA P0
		TWA	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

Per	SOI	nal	protect	ive	equipment	
_						

Respiratory protection: Use suitable breathing protection if workplace concentration requires. No personal respiratory protective equipment normally required.Hand protection Material: Solvent-resistant gloves (butyl-rubber)Remarks: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.			
Material:Solvent-resistant gloves (butyl-rubber)Remarks:Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the	Respiratory protection	:	requires. No personal respiratory protective equipment normally
Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the	Hand protection		
concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the	Material	:	Solvent-resistant gloves (butyl-rubber)
0/44	Remarks	:	concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection





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Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Goggles Safety glasses

Skin and body protection	:	Protective suit
Hygiene measures	:	General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color Odor Odor Threshold pH Melting point/freezing point Boiling point/boiling range		liquid silver characteristic No data available substance/mixture is non-soluble (in water) No data available > 100 °C
Flash point	:	> 100 °C
Evaporation rate Flammability (solid, gas) Upper explosion limit / Upper flammability limit Lower explosion limit / Lower flammability limit Vapor pressure Relative density Density		No data available No data available No data available No data available No data available No data available 1.0 g/cm3
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Autoignition temperature Decomposition temperature Viscosity Viscosity, kinematic		insoluble No data available No data available > 21 mm2/s (40 °C)
Total Volatile organic compounds (VOC) content	:	5.00 - 10.00 %

SECTION 10. STABILITY AND REACTIVITY



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	nical stability ibility of hazardous	: No decompos : Contact with a	ition if stored and applied as directed. ition if stored and applied as directed. icids and alkalis may release hydrogen. recommended storage conditions.
Conditions to avoid Incompatible materials		 Do not allow e No data availa Acids Bases Oxidizing age 	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

9-Octadecenoic acid (9Z)-, cobalt salt (1:?):

Result: May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

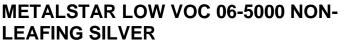
Not classified based on available information.

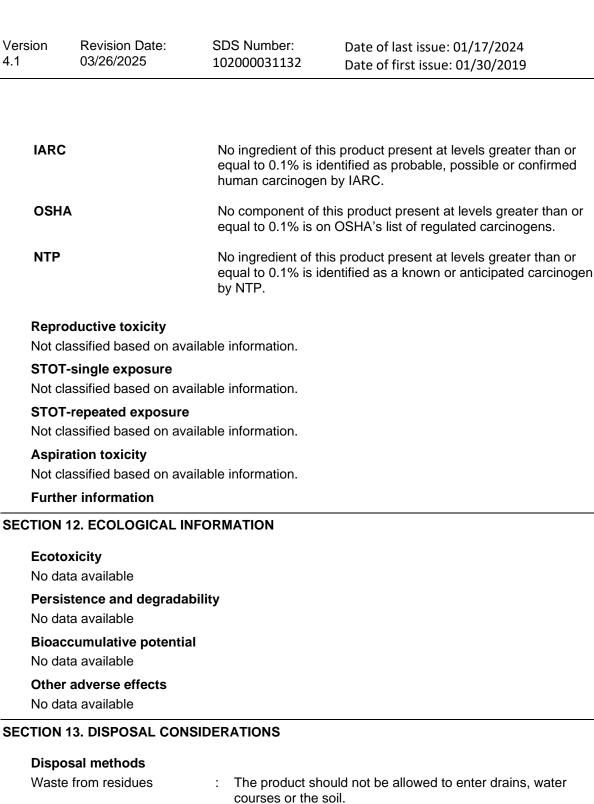
Components:

Distillates (petroleum), hydrotreated middle:

Carcinogenicity -	:	Classified based on the conditions cited in Nota N (Regulation
Assessment		(EC) 1272/2008, Annex VI, Part 3, Note N)

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SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (paint related material)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous Dangerous Goods
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964
IMDG-Code		
UN number		UN 3082
Proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(paint related material)
Class	:	9
Packing group	:	
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Remarks	:	For single packagings <=5L / 5 kg, or combination packagings containing inner packagings <= 5L / 5 kg net per inner packaging, SV375 ADR, 2.10.2.7 IMDG-Code, A197 IATA-DGR may be applied.
The second in built as a solid.		Annov II of MADDOL 72/79 and the IDC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.



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SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Respiratory or skin sensit	ization	
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:		
		Aluminum	7429-90-5	>= 10 - < 20 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Distillates (petroleum), solvent- 64741-91-9 >= 5 - < 10 % refined middle

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know				
Aluminum	7429-90-5			
Distillates (petroleum), hydrotreated middle	64742-46-7			
Pennsylvania Right To Know				
Aluminum	7429-90-5			
Resin	Not Assigned			

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Safflower oil	8001-23-8
Kein gefährlicher Stoff oder gefährliches Gemisch gemäß dem Global Harmonisierten System (GHS).	Not Assigned
Kein gefährlicher Stoff oder gefährliches Gemisch gemäß dem Global Harmonisierten System (GHS).	Not Assigned
Distillates (petroleum), hydrotreated middle	64742-46-7
Tung oil	8001-20-5
Soybean oil	8001-22-7
Fatty acids, tall-oil, Bu esters	67762-63-4
rosin resin	Not Assigned
Dodecanoic acid, 2-ethylhexyl ester	20292-08-4

California Prop. 65



WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.



WARNING: This product can expose you to chemicals including Distillates (petroleum), hydrotreated middle, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances

Aluminum	7429-90-5
Distillates (petroleum), hydrotreated middle	64742-46-7
California Permissible Exposure Limits for Chemical Contaminants Aluminum	7429-90-5
Safflower oil	8001-23-8
Distillates (petroleum), hydrotreated middle	64742-46-7

The ingredients of this product are reported in the following inventories:



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DSL		 This product co 	intains one or several components listed in the

TSCA

This product contains one or several components listed in the Canadian NDSL.
All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH NIOSH REL	:	USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA PO	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated
OSHA Z-1	:	values) USA. Occupational Exposure Limits (OSHA) - Table Z-1
		Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population



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(Median Lethal Dose): MARPOL - International Convention for the Prevention of Pollution from Ships: MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA -Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very **Bioaccumulative**

Revision Date

: 03/26/2025

The information provided in this Material 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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