

542 Surrogate Mix Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 12/22/2020 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form : Mixture			
Product name	: 542 Surrogate Mix		
Product code	: AL0-101833		
1.2. Recommended use and restriction No additional information available	ns on use		
1.3.SupplierPhenova6390 Joyce Dr. Suite 100Golden, CO 80403 - United StatesT 1-866-942-2978 - F 1-866-283-0269info@phenova.com- www.phenova.com			
1.4. Emergency telephone number			
Emergency number	: ChemTel Assistance (US/Canada) 1-800-255-3924 ChemTel Assistance (International) +1 813-248-0585		
SECTION 2: Hazard(s) identification	n		
2.1. Classification of the substance o	r mixture		
GHS US classification			
Flammable liquids H225	Highly flammable liquid and vapor		
Category 2 Acute toxicity (oral) H301	Toxic if swallowed		
Category 3 Acute toxicity (dermal) H311	Toxic in contact with skin		
Category 3 Specific target organ H370	Causes damage to organs		
toxicity (single exposure) Category 1			
Full text of H statements : see section 16			
2.2. GHS Label elements, including p	recautionary statements		
2.2. GHS Label elements, including p GHS US labeling	recautionary statements		
	recautionary statements		
GHS US labeling Hazard pictograms (GHS US)			
GHS US labeling	recautionary statements : : : : : Danger : H225 - Highly flammable liquid and vapor H301+H311 - Toxic if swallowed or in contact with skin H370 - Causes damage to organs		
GHS US labeling Hazard pictograms (GHS US) Signal word (GHS US)	: Danger : H225 - Highly flammable liquid and vapor H301+H311 - Toxic if swallowed or in contact with skin		

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P370+P378 - In case of fire: Use media other than water to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification No additional information available Unknown acute toxicity (GHS US) Not applicable **SECTION 3: Composition/Information on ingredients** Substance Not applicable Mixtures **Product identifier** Name Conc 99.9 (CAS-No.) 67-56-1 methanol (Component) Full text of hazard classes and H-statements : see section 16 **SECTION 4: First-aid measures** Description of first aid measure First-aid measures general : Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. : Allow affected person to breathe fresh air. Allow the victim to rest. First-aid measures after inhalation Remove affected clothing and wash all exposed skin area with mild soap and water, followed First-aid measures after skin contact by warm water rinse. First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. 4.2. Most important symptoms and effects (acute and delayed) Potential Adverse human health effects and : Based on available data, the classification criteria are not met. symptoms Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use. Immediate medical attention and special treatment, if necessary 43 No additional information available **SECTION 5: Fire-fighting measures** Suitable (and unsuitable) extinguishing media 5.1. Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Unsuitable extinguishing media : Do not use a heavy water stream. Specific hazards arising from the chemical No additional information available 53 Special protective equipment and precautions for fire-fighters : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any **Firefighting instructions** chemical fire. Prevent fire-fighting water from entering environment. Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. **SECTION** 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures 6.1.1. For non-emergency personnel Emergency procedures : Evacuate unnecessary personnel. 6.1.2. For emergency responders Protective equipment : Equip cleanup crew with proper protection. : Ventilate area. Emergency procedures 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up			
Methods for cleaning up			
6.4. Reference to other sections			
See Heading 8. Exposure controls and personal	protection.		
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.		
Hygiene measures	: Gently wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.		
7.2. Conditions for safe storage, includir	ng any incompatibilities		
Storage conditions	: Keep container closed when not in use. Keep container tightly closed and in a well-ventilated place. Keep away from any flames or sparking source.		
Incompatible materials	: Direct sunlight.		

SECTION 8: Exposure controls/personal protection

3.1. Control pa					
542 Surrogate Mix					
ACGIH	Local name	Methanol			
ACGIH	ACGIH TWA (ppm)	200 ppm			
ACGIH	ACGIH STEL (ppm)	250 ppm			
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea			
ACGIH	Regulatory reference	ACGIH 2018			
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³			
OSHA	OSHA PEL (TWA) (ppm)	200 ppm			
OSHA	Regulatory reference (US-OSHA)	OSHA			
methanol (67-56-1)					
ACGIH	Local name	Methanol			
ACGIH	ACGIH TWA (ppm)	200 ppm (Methanol; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)			
ACGIH	ACGIH STEL (ppm)	250 ppm (Methanol; USA; Short time value; TLV - Adopted Value)			
ACGIH	Remark (ACGIH)	Headache; eye dam; dizziness; nausea			
ACGIH	Regulatory reference	ACGIH 2018			
OSHA	OSHA PEL (TWA) (mg/m ³)	260 mg/m ³			
OSHA	OSHA PEL (TWA) (ppm)	200 ppm			
OSHA	Regulatory reference (US-OSHA)	OSHA			

8.2. Appropriate engineering controls

: Either local exhaust or general room ventilation is usually required.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Appropriate engineering controls

Avoid all unnecessary exposure. Gloves. Protective clothing. Protective goggles. Safety glasses.

Hand protection:

Wear chemically resistant protective gloves. Wear suitable gloves resistant to chemical penetration

Eye protection:

Chemical goggles or safety glasses. Safety glasses

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Skin and body protection:

Wear chemically protective gloves, lab coat or apron to prevent prolonged or repeated skin contact

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
,	: Colorless
	: characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
No additional information available
10.2. Chemical stability
Not established.
10.3. Possibility of hazardous reactions
Not established.
10.4. Conditions to avoid
Direct suplicit. Extremely high or low temperatures

Direct sunlight. Extremely high or low temperatures.

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10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
542 Surrogate Mix	
ATE US (oral)	100.1 mg/kg body weight
ATE US (dermal)	300.3 mg/kg body weight
methanol (67-56-1)	
LD50 oral rat	> 5000 mg/kg (Rat; BASF test; Literature study; 1187-2769 mg/kg bodyweight; Rat; Weight of evidence)
LD50 dermal rabbit	15800 mg/kg (Rabbit; Literature study)
LC50 inhalation rat (mg/l)	85 mg/l/4h (Rat; Literature study)
LC50 inhalation rat (ppm)	64000 ppm/4h (Rat; Literature study)
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
kin corrosion/irritation	: Not classified
erious eye damage/irritation	: Not classified
espiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
TOT-single exposure	: Causes damage to organs.
TOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
ymptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

I2.1. Toxicity			
methanol (67-56-1)			
LC50 fish 1	15400 mg/l (LC50; EPA 660/3 - 75/009; 96 h; Lepomis macrochirus; Flow-through syste Fresh water; Experimental value)		
EC50 Daphnia 1	> 10000 mg/l (EC50; DIN 38412-11; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)		
LC50 fish 2 10800 mg/l (LC50; 96 h; Salmo gairdneri)			
12.2. Persistence and degradability			
542 Surrogate Mix			
Persistence and degradability Not established.			
methanol (67-56-1)			
Persistence and degradability Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.			
Biochemical oxygen demand (BOD) 0.6 – 1.12 g O ₂ /g substance			

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methanol (67-56-1)				
Chemical oxygen demand (COD)	1.42 g O ₂ /g substance			
ThOD	1.5 g O₂/g substance			
BOD (% of ThOD)	0.8 (Literature study)			
2.3. Bioaccumulative potential				
542 Surrogate Mix				
Bioaccumulative potential	Not established.			
methanol (67-56-1)				
BCF fish 1	< 10 (BCF; 72 h; Leuciscus idus)			
Partition coefficient n-octanol/water (Log Pow)	-0.77 (Experimental value; Other)			
Bioaccumulative potential	ulative potential Low potential for bioaccumulation (BCF < 500).			
12.4. Mobility in soil				
methanol (67-56-1)				
Surface tension	0.023 N/m (20 °C)			
Partition coefficient n-octanol/water (Log Koc)	Koc,PCKOCWIN v1.66; 1; Calculated value			
12.5. Other adverse effects				
540 Ourse and a Mile				
542 Surrogate Mix				
methanol (67-56-1)				
Other information	: Avoid release to the environment.			
SECTION 13: Disposal consideration	s			
SECTION 13: Disposal consideration 13.1. Disposal methods	S			
13.1. Disposal methods				
	 S Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. 			
13.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials	: Dispose in a safe manner in accordance with local/national regulations.			
Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information	: Dispose in a safe manner in accordance with local/national regulations.			
13.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT)	: Dispose in a safe manner in accordance with local/national regulations.			
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Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II 			
13.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Fransport document description JN-No.(DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 			
3.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. 			
3.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 			
13.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Class (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 			
Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 II - Medium Danger 			
13.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Subsidiary risk (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 II - Medium Danger 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 			
13.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 II - Medium Danger 			
Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Subsidiary risk (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 II - Medium Danger 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 3 - Flammable liquid 			
3.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) n accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Subsidiary risk (DOT) Hazard labels (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 II - Medium Danger 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 3 - Flammable liquid 6.1 - Poison 			
13.1. Disposal methods Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Transport document description JN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Subsidiary risk (DOT)	 Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment. UN1992 Flammable liquids, toxic, n.o.s. (methanol), 3 (6.1), II UN1992 Flammable liquids, toxic, n.o.s. methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 II - Medium Danger 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 3 - Flammable liquid 6.1 - Poison 			

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DOT Special Provisions (49 CFR 172.102)	:	IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	:	131
Other information		No supplementary information available.
Transportation of Dangerous Goods		
Not applicable		
Transport by sea		
Transport document description (IMDG)	:	UN 1992 FLAMMABLE LIQUID, TOXIC, N.O.S. (methanol), 3 (6.1), II
UN-No. (IMDG)	:	1992
Proper Shipping Name (IMDG)	:	FLAMMABLE LIQUID, TOXIC, N.O.S.
Class (IMDG)	:	3 - Flammable liquids
Packing group (IMDG)	:	II - substances presenting medium danger
r doking group (imbo)		
Subsidiary risks (IMDG)	:	6.1 - Toxic substances
		6.1 - Toxic substances 1 L
Subsidiary risks (IMDG)		
Subsidiary risks (IMDG) Limited quantities (IMDG)	:	
Subsidiary risks (IMDG) Limited quantities (IMDG) Air transport	:	1 L
Subsidiary risks (IMDG) Limited quantities (IMDG) Air transport Transport document description (IATA)	:	1 L UN 1992 Flammable liquid, toxic, n.o.s. (methanol), 3 (6.1), II
Subsidiary risks (IMDG) Limited quantities (IMDG) Air transport Transport document description (IATA) UN-No. (IATA)	:	1 L UN 1992 Flammable liquid, toxic, n.o.s. (methanol), 3 (6.1), II 1992
Subsidiary risks (IMDG) Limited quantities (IMDG) Air transport Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA)		1 L UN 1992 Flammable liquid, toxic, n.o.s. (methanol), 3 (6.1), II 1992 Flammable liquid, toxic, n.o.s.
Subsidiary risks (IMDG) Limited quantities (IMDG) Air transport Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA)		1 L UN 1992 Flammable liquid, toxic, n.o.s. (methanol), 3 (6.1), II 1992 Flammable liquid, toxic, n.o.s. 3 - Flammable Liquids
Subsidiary risks (IMDG) Limited quantities (IMDG) Air transport Transport document description (IATA) UN-No. (IATA) Proper Shipping Name (IATA) Class (IATA) Packing group (IATA)		1 L UN 1992 Flammable liquid, toxic, n.o.s. (methanol), 3 (6.1), II 1992 Flammable liquid, toxic, n.o.s. 3 - Flammable Liquids II - Medium Danger

methanol (67-56-1)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
Listed on EPA Hazardous Air Pollutant (HAPS)		
CERCLA RQ 5000 lb		

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15.2. International regulations

CANADA

methanol (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

methanol (67-56-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

15.3. US State regulations

methanol (67-56	6-1)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
No	Yes	No	No		47000 µg/day (inhalation); 23,000 µg/day (oral)

SECTION 16: Other information

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H301	Toxic if swallowed
H311	Toxic in contact with skin
H370	Causes damage to organs

Phenova US SDS REV

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