

HOSTAVIN 3225-2 DISP

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Substance key: 000000132931

Revision Date: 03/13/2019

Version : 2 - 0 / USA

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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Plastics & Coating USA LLC 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
Information of the substance/preparation:	Product Stewardship, +1-704-331-7710
Emergency tel. number:	+1 800-424-9300 CHEMTREC

Trade name: HOSTAVIN 3225-2 DISP**Material number:** 192019**Primary product use:** Class of additive: Light stabilizer**Chemical family:** Water-based dispersion of a sterically hindered amine light stabilizer and an UV-absorber

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Serious eye damage : Category 1

Specific target organ toxicity : Category 2
- repeated exposure**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.Precautionary statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear eye protection/ face protection.
Response:
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

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P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

No additional hazards are known except those derived from the labelling.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-hencosan-21-one	64338-16-5	10 - 20

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.
- In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.
Use a mild soap if available.
Call a physician if irritation develops or persists.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- If swallowed : Do NOT induce vomiting.
Get immediate medical advice/ attention.
- Most important symptoms and effects, both acute and delayed : The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.
- Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : water
Foam
Carbon dioxide (CO₂)

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	ABC powder
Unsuitable extinguishing media	: none
Specific hazards during firefighting	: Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride Emits highly toxic fumes under fire conditions.
Further information	: Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.
Special protective equipment for firefighters	: Full protective suit Self-contained breathing apparatus

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Avoid contact with skin and eyes. Wear suitable protective equipment. Wearing appropriate personal protective equipment, contain spill and collect into a suitable container. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
Environmental precautions	: Do not allow to enter drains or waterways
Methods and materials for containment and cleaning up	: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	: No special measures necessary.
Advice on safe handling	: Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.
Further information on storage conditions	: Store in original container. Keep container tightly closed. Store in a cool, dry, well-ventilated area.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.**Personal protective equipment**

Respiratory protection : Use NIOSH/MSHA approved respirators following manufacturer's recommendations where dust or fume may be generated.

Hand protection
Remarks : Nitrile GlovesEye protection : Safety glasses with side-shields
Tightly fitting safety goggles

Skin and body protection : Wear suitable protective equipment.

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : Observe the usual precautions for handling chemicals.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : dispersion

Colour : white, to, light yellow

Odour : not specified

Odour Threshold : not determined

pH : 7.5 - 8.5

Melting point : not determined

Boiling point : 212 °F / 100 °C
(1,013.25 hPa)
Method: DSC

Flash point : > 212 °F / > 100 °C

Evaporation rate : not tested.

Flammability (solid, gas) : Not applicable

Self-ignition : Method: Expert judgement

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The substance or mixture is not classified as pyrophoric.

Burning number	:	Not applicable
Upper explosion limit / upper flammability limit	:	Not relevant
Lower explosion limit / Lower flammability limit	:	Not relevant
Vapour pressure	:	not tested.
Relative vapour density	:	not tested.
Density	:	1.05 - 1.1 g/cm ³
Solubility(ies)		
Water solubility	:	miscible
Solubility in other solvents	:	not tested. Solvent: fat
Partition coefficient: n-octanol/water	:	Not relevant
Auto-ignition temperature	:	Not relevant
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, dynamic	:	800 mPa.s
Viscosity, kinematic	:	no data available
Explosive properties	:	Not explosive Method: Expert judgement
Oxidizing properties	:	The substance or mixture is not classified as oxidizing. Method: Expert judgement The product does not contain organic peroxide-groups which result from either the manufacturing process or from added ingredients.
Dust explosion class	:	not capable of dust explosion
Particle size	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable

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Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. The substance or mixture does not emit flammable gases in contact with water. Not corrosive to metals Stable
Conditions to avoid	:	None known.
Incompatible materials	:	not known
Hazardous decomposition products	:	At high temperatures: thermal decomposition giving toxic products. Carbon oxides Nitrogen oxides (NOx) The product does not contain any chemical groups which suggest self-reactive properties, nor is the estimated SADT less than 75 °C, nor is the exothermic decomposition energy higher than 300 J/g.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact
Skin contact
Inhalation

Acute toxicity**Product:**

Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity	:	Acute toxicity estimate: 9.65 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	:	Remarks: not tested.
Acute toxicity (other routes of administration)	:	Remarks: no data available

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Acute oral toxicity	:	LD50 (Rat, female): 2,800 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute inhalation toxicity	:	LC50 (Rat, male and female): 1.67 mg/l

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Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: no

Acute dermal toxicity : Remarks: no data available

Skin corrosion/irritation**Product:**

Remarks: not tested.

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Species: Rabbit
Exposure time: 24 h
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: no

Serious eye damage/eye irritation**Product:**

Result: Risk of serious damage to eyes.

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Species: Rabbit
Result: Risk of serious damage to eyes.
Exposure time: 24 h
Method: OECD Test Guideline 405
GLP: no

Respiratory or skin sensitisation**Product:**

Remarks: not tested.

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Test Type: Mouse local lymphnode assay
Exposure routes: Dermal
Species: Mouse
Method: OECD Test Guideline 429
Result: Not a skin sensitizer.
GLP: yes

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Germ cell mutagenicity**Product:**

Germ cell mutagenicity - Assessment : No information available.

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

Carcinogenicity**Product:**

Carcinogenicity - Assessment : No information available.

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Carcinogenicity - Assessment : No information available.

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity**Components:****2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Effects on foetal development : Test Type: Pre-natal
Species: Rat, male and female
Strain: Sprague-Dawley
Application Route: oral (gavage)
Dose: 10, 25, 62,5 mg/kg bw milligram per kilogram
Duration of Single Treatment: 21 d
General Toxicity Maternal: NOAEL: 25 mg/kg body weight
Embryo-foetal toxicity: NOAEL: 25 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT - single exposure**Components:****2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure**Components:****2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Exposure routes: Oral
Target Organs: Cardio-vascular system
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity**Product:**

Remarks: not tested.

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Species: Rat, female
NOAEL: 75 mg/kg bw/day
Application Route: oral (gavage)
Exposure time: 13 weeks

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Number of exposures: daily
Dose: 10, 25 and 75 mg/kg
Group: yes
Subsequent observation period: 4 weeks
Method: OECD Test Guideline 408
GLP: yes

Species: Rat, male
NOAEL: 225 mg/kg bw/day
Application Route: oral (gavage)
Exposure time: 13 weeks
Number of exposures: daily
Dose: 25, 75 and 225 mg/kg
Group: yes
Subsequent observation period: 4 weeks
Method: OECD Test Guideline 408
GLP: yes

Aspiration toxicity**Components:****2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

no data available

Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish :
Remarks: not tested.

Toxicity to daphnia and other :
aquatic invertebrates Remarks: not tested.

Toxicity to algae/aquatic :
plants Remarks: not tested.

Toxicity to microorganisms : Remarks: not tested.

Ecotoxicology Assessment

Acute aquatic toxicity : no data available

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Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 3.62 mg/l
End point: mortality
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
End point: Immobilization
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: No toxicity at the limit of solubility
- Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 0.398 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : Remarks: no data available
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: no data available
- Toxicity to microorganisms : EC50 (activated sludge): 65.9 mg/l
End point: Bacteria toxicity (respiration inhibition)
Exposure time: 3 h
Test Type: static test
Method: OECD Test Guideline 209
GLP: yes

Persistence and degradability**Product:**

- Biodegradability : Test Type: aerobic
Inoculum: activated sludge, non-adapted
Concentration: 15 mg/l
Result: Not readily biodegradable.
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

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Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 15 mg/l
Carbon dioxide (CO₂)
Result: Not readily biodegradable.
Biodegradation: 35 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
GLP: yes

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: not available

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 3.2 - 6.8
Exposure time: 56 d
Concentration: 0.05 mg/l
Method: OECD Test Guideline 305C
GLP: yes

Mobility in soil**Components:****2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Distribution among : Koc method
environmental compartments : Medium: Soil
log Koc: 7.4
Method: OECD Test Guideline 121

Other adverse effects**Product:**

Environmental fate and : Remarks: no data available
pathways

Additional ecological : no data available
information

Components:**2,2,4,4-Tetramethyl-7-oxa-3,20-diazadispiro[5.1.11.2]-henicosan-21-one:**

Results of PBT and vPvB : The substance is not identified as a PBT or as a vPvB
assessment substance.

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource Conservation and Recovery

Authorization Act

Waste Code : NONE

Waste from residues : Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

Class: 9

Packing group: III

UN/ID number: UN 3082

Primary risk: 9

Remarks: Shipment permitted

Hazard inducer(s): STERICALLY HINDERED AMINE

IMDG

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

Class: 9

Packing group: III

UN no.: UN 3082

Primary risk: 9

Hazard inducer(s): STERICALLY HINDERED AMINE

Marine pollutant: Marine Pollutant

EmS: F-A S-F

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

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

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 : Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

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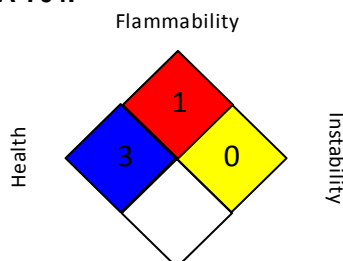
SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

Contains no known priority pollutants at concentrations greater than 0.1%.

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

TSCA : One or more of the components of this product is not listed on the Toxic Substances Control Act (TSCA) Inventory. The product is thus sold under the restriction that it is only for use in research and development. This product must be used under the supervision of a technically qualified individual capable of understanding its potential hazards.

SECTION 16. OTHER INFORMATION**Further information****NFPA 704:**

Special hazard.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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

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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 (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; 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

This substance may be toxic to fish or aquatic organisms.

Do not allow to enter drains or waterways

Dispose of waste product or used containers according to local regulations.

Observe national and local legal requirements

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This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

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