Emerson Automation Solutions
Appleton Grp LLC
9377 W. Higgins Road
Rosemont, IL 60018
United States

T 1 (800) 621 1506

IMPORTANT: EMERGENCY CONTACT INFORMATION IS ENCLOSED.

Dear Customer,

Enclosed please find the Safety Data Sheets (SDS) for the **EasyHeat GA1130 Silicone Sealant, used in the following EasyHeat product series:**

SRP	TSRP	TRST	SRME
	TSRS	TSRL	SRMP

Either the Boss brand or the Dow Corning brand may be supplied, please select the appropriate Safety Data Sheets (SDS).

This product is purchased from the manufacturer by **EasyHeat** and is distributed with no modification other than packaging, as applicable. Questions regarding application and use may be directed to EasyHeat Technical Support.

Any questions regarding the composition, safe use or potential hazards associated with this material that are not answered in the SDS should be directed to the manufacturer.

Thank you for your support of EasyHeat and our extensive product line.

MSDS Document

Product BOSS® 315 RTV Silicone Sealant

1. Chemical Product and Company Identification

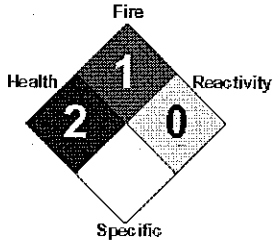
Trade Name of this Product BOSS® 315 RTV Silicone Sealant

Synonyms: Industrial Sealant, 01011CL48, 01011WH48, 01011BK48, 01011AL48, 01011BZ48, 01000CL36, 01000WH36, 01000BK36, 01002CL36, 01002WH36, 01300CL05, 01300WH05, 01048CL01, 31500, 31501, 31502 31503, 31504, 31530, 31531, 31532, 31540, 31541, 31550, 31551, 31570, 31571, 31572, 31573, 31574, 01048AL01, 01048BK01

MSDS ID BOSS315

Manufacturer
Accumetric, LLC
350 Ring Road
Elizabethtown, KY 42701

Phone Number
(270) 769-3385
Emergency Phone
CHEMTREC (800) 424-9300
Revision Date 7/10/2006



Health:	2
Fire:	1
Reactivity:	0
Specific	

2. Composition and Information on Ingredients

Ingredient	CAS Number	Weight %	ACGIH TLV	PEL	STEL
Methyltriacetoxysilane	4253-34-3	1% - 5%	TWA 10ppm	TWA 10ppm	15ppm
Ethyltriacetoxysilane	17689-77-9	1% - 5%	TWA 10ppm	TWA 10ppm	15ppm

3. Hazard Identification

Eye Contact
Direct contact may cause moderate irritation.

Skin Contact
May cause moderate irritation.

Inhalation
Material is not likely to present an inhalation hazard at ambient conditions. However, if material is heated or high vapor/aerosol concentrations are attained, central nervous system depression may occur, which is characterized by drowsiness, dizziness, confusion or loss of coordination.

Ingestion
Low ingestion hazard in normal use.

Symptoms of Overexposure
No known applicable information.

Existing Conditions Aggravated by Exposure
No known applicable information.

Note
The above listed potential effects are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for detailed toxicology information.

4. First Aid Information

Eye Contact
Immediately flush with water for 15 minutes. Seek medical attention.

Skin Contact
Remove from skin and wash throughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation
Material is not likely to present an inhalation hazard at ambient conditions. If material is heated or vapor/mist/dust/fumes are generated, care should be taken to prevent inhalation. In case of exposure to vapor/mist/dust/fumes, move to fresh air.

Ingestion
No first aid should be needed.

Comments
Treat according to person's condition and specifics of exposure.

5. Fire Fighting Measures

Flash Point Not Applicable

Auto-ignition Temperature
Not determined

Extinguishing Media
On large fires use dry chemical, foam, or water spray. On small fires use carbon dioxide, dry chemical or water spray. Water can be used to cool fire exposed containers.

Flammability Limits in Air
Not determined

Special Fire Fighting Procedures
Self-contained breathing apparatus and protective clothing should be worn when fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire or Explosion Hazards
None known

Hazardous Decomposition Products
Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products:
Carbon oxides and traces of incompletely burned carbon compounds
Formaldehyde
Silicon dioxide

Depending on color, hazardous decomposition products may also include:
Hydrogen
Nitrogen oxides
Metal oxides
Sulfur oxides

6. Accidental Release Measures

Steps to be taken in case of spill or release
Observe all personal protection equipment recommendations in Sections 5 and 8. Wipe or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note
See Section 8 for information about personal protective equipment for spills. Contact Accumetric, LLC if additional information is required.

7. Handling and Storage

Handling
Use adequate ventilation. Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Keep container closed. Do not take internally. Avoid breathing vapor.

Storage
Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture

8. Exposure Controls and Personal Protection

Component Exposure Limits
Component Name: Ethyltriacetoxysilane
CAS Number: 17689-77-9
Exposure Limits: See acetic acid comments

Component Name: Methyltriacetoxysilane
CAS Number: 4253-34-3
Exposure Limits: See acetic acid comments

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Component Exposure Limits - Almond only
Component Name: Dimethylsiloxane, trimethoxysilyl-terminated
CAS Number: PMN871176
Exposure Limits: See methyl alcohol comments.

Component Name: Aluminum
CAS Number: 7429-90-5
Exposure Limits: OSHA PEL (final rule): TWA 15mg/m3 total dust, 5 mg/m3 respirable dust
ACGIH TLV: TWA 10mg/m3

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.

Component Exposure Limits - Aluminum only
Component Name: Aluminum
CAS Number: 7429-90-5
Exposure Limits: OSHA PEL (final rule): TWA 15mg/m3 total dust 5 mg/m3 respirable dust
ACGIH TLV: TWA 10mg/m3

Engineering Controls
Local Ventilation: Recommended
General Ventilation: Recommended

Eye Protection
Use proper protection - safety glasses as a minimum.

Skin Protection
Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and throughly cleaned before reuse Chemical protective gloves are

recommended.

Suitable Gloves:
Nitrile Rubber. Butyl Rubber.

Inhalation
Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator
Respiratory protection is not needed under ambient conditions. If vapor/mist/dust/fumes are generated when material is heated or handled, the following is advised. General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills
Eyes: Use full face respirator.

Skin: Wash at mealtimes and end of shift. Contaminated clothing and shoes should be removed as soon as practical and throughly cleaned before reuse. Chemical protective gloves are recommended.

Inhalation/Suitable Respirator: Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Precautionary Measures
Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust or fumes. Keep container closed. Do not take internally. Use reasonable care.

Comment
Product evolves acetic acid when exposed to water or humid air. Provide ventilation during use to control acetic acid within exposure guidelines or use respiratory protection. When heated to temperatures above 150C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose throat, skin and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Note
These precautions are for room temperature handling. Use at elevated temperatures or aerosol/spray applications may require added precautions.

9. Physical and Chemical Properties

Physical State	Paste

Specific Gravity	1 032
Color/Appearance	Various
Odor	Acetic Acid Odor
pH	Not Determined
Boiling/Cond. Point	Not Determined
Melting/Freezing Point	Not Determined
Solubility	Not Determined
Evaporation Rate	Not Determined
VOC %	29 g/l
Viscosity	Not Determined
Vapor Density	Not Determined
Vapor Pressure	Not Determined

Note
The above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

10. Stability and Reactivity

Chemical Stability
Stable

Hazardous Polymerization
Will not occur

Conditions to Avoid
None known

Materials to Avoid / Incompatibility
Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form.

11. Toxicological Information

Special Hazard Information on Components
No known applicable information.

12. Ecological Information

Environmental Fate and Distribution
Complete information is not yet available.

Environmental Effects
Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants
Complete information is not yet available.

13. Disposal Considerations

RCRA Hazard Class (40 CFR 261)
When a decision is made to discard this material, as received, is it classified as a hazardous

waste? NO

State or local laws may impose additional regulatory requirements regarding disposal.

Waste Disposal Method
We make no guarantee or warranty of any kind that the use or disposal of this product complies with all local, state, or federal laws. It is also the obligation of each user of the product mentioned herein to determine and comply with the requirements of all applicable statutes.

This product is not known to be regulated under RCRA regulations. Disposal of unused portions of this product and process waste containing this product should be done only after a careful evaluation and in compliance with all federal, local and state laws.

14. Transportation Information

DOT Road Shipment Information
Not subject to DOT.

Ocean Shipment (IMDG)
Not subject to IMDG code.

Air Shipment (IATA)
Not subject to IATA regulations.

15. Regulatory Information

The contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA Title III Section 302 Extremely Hazardous Substances
None

SARA Title III Section 304 CERCLA Hazardous Substances
None

SARA Title III Section 312 Hazard Class
Acute: Yes
Chronic: Yes (Aluminum and Almond only, all other colors have no known Chronic effects)
Fire: No
Pressure: No
Reactive: No

California Proposition 65
This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to

cause cancer, birth defects or other reproductive harm:
None known

Massachusetts
Silica amorphous (7631-86-9)

Depending on color, may also contain:
Alumina hydrate (21645-51-2)
Aluminum (7429-90-5)
Barium sulfate (7727-43-7)
Carbon black (1333-86-4)
Iron oxide (1309-37-1)
Titanium dioxide (13463-67-7)

New Jersey
Dimethyl siloxane, hydroxy-terminated (70131-67-8)
Ethyltriacetoxysilane (17689-77-9)
Hydrotreated middle petroleum distillates (7631-86-9)
Methyltriacetoxysilane (4253-34-3)
Silica, amorphous (7631-86-9)

Depending on color, may also contain:
Alumina hydrate (21645-51-2)
Aluminum (7429-90-5)
Antimony chromium manganese titanium brown rutile (6991-68-0)
Barium sulfate (7727-43-7)
Black iron oxide (1317-61-9)
Carbon black (1333-86-4)
Dimethyl siloxane, trimethylsilyl-terminated (PMN871176)
Iron hydroxide oxide (20344-49-4)
Iron oxide (1309-37-1)
Magnesium ferrite (12068-86-9)
Mineral Oil (8042-47-5)
Polydimethylsiloxane (63148-62-9)
Tetrabenzo-5,10,15,20-diazaporphyrinephthalocyanine [Pigment blue 15] (57455-37-5)
Titanium dioxide (13463-67-7)

Pennsylvania
Dimethyl siloxane, hydroxy-terminated (70131-67-8)
Hydrotreated middle petroleum distillates (7631-86-9)
Silica, amorphous (7631-86-9)

Depending on color, may also contain:
Alumina hydrate (21645-51-2)
Aluminum (7429-90-5)
Antimony chromium manganese titanium brown rutile (6991-68-0)
Barium sulfate (7727-43-7)
Black iron oxide (1317-61-9)
Carbon black (1333-86-4)
C.I. Pigment Blue 29 (57455-37-5)
Dimethyl siloxane, trimethylsilyl-terminated (PMN871176)
Iron hydroxide oxide (20344-49-4)

Iron oxide (1309-37-1)
Iron oxide (1332-37-2)
Magnesium ferrite (12068-86-9)
Mineral Oil (8042-47-5)
Polydimethylsiloxane (63148-62-9)
Tetrabenzo-5,10,15,20-diazaporphyrinephthalocyanine [Pigment blue 15] (57455-37-5)
Titanium dioxide (13463-67-7)
Yellow iron oxide (51274-00-1)

16. Other Information

Disclaimer

The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements to suggestions are made without warranty, expressed or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

DOW CORNING

DOW CORNING CORPORATION
Material Safety Data Sheet

DOW CORNING(R) 732 MULTI -PURPOSE SEALANT CLEAR

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900
Customer Service: (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No.: 01890573 Revision Date: 2002/11/26

Generic Description: Silicone elastomer
Physical Form: Paste
Color: Colorless
Odor: Acetic acid odor

NFPA Profile: Health 2 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane

The above components are hazardous as defined in 29 CFR 1910.1200.

3. EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Direct contact may cause moderate irritation.

Skin: May cause moderate irritation.

Inhalation: Irritates respiratory passages very slightly.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: No known applicable information.

Inhalation**:** No known applicable information.

Oral: No known applicable information.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID MEASURES

Eye:	Immediately flush with water for 15 minutes. Get medical attention.
Skin:	Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
Inhalation:	No first aid should be needed.
Oral:	No first aid should be needed.
Comments:	Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Autoignition Temperature:	Not determined.
Flammability Limits in Air:	Not determined.
Extinguishing Media:	Carbon dioxide (CO2). Water spray. Dry chemical. Foam. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.
Unusual Fire Hazards:	None.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Hydrogen. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up:	Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements. Wipe up or scrape up and contain for salvage or disposal. Observe all personal protection equipment recommendations described in Sections 5 and 8. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable.

Note: See section 8 for Personal Protective Equipment for Spills. Call Dow Corning Corporation, (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact.

Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
4253-34-3	Methyltriacetoxysilane	See acetic acid comments.
17689-77-9	Ethyltriacetoxysilane	See acetic acid comments.

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Engineering Controls

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves: Silver Shield(R). 4H(R).

Inhalation: No respiratory protection should be needed.

Suitable Respirator: None should be needed.

Personal Protective Equipment for Spills

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Inhalation/Suitable Respirator:	No respiratory protection should be needed.
Precautionary Measures:	Avoid eye contact. Avoid skin contact. Use reasonable care.
Comments:	Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc within exposure guidelines or use respiratory protection.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Paste
Color:	Colorless
Odor:	Acetic acid odor
Specific Gravity @ 25°C:	1.04
Viscosity:	Not determined.
Freezing/Melting Point:	Not determined.
Boiling Point:	Not determined.
Vapor Pressure @ 25°C:	Not determined.
Vapor Density:	Not determined.
Solubility in Water:	Not determined.
pH:	Not determined.
Volatile Content:	Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	None.
Materials to Avoid:	Water, moisture, or humid air can cause hazardous vapours to form as described in Section 8 . Oxidizing material can cause a reaction.

11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components

No known applicable information.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

Call Dow Corning Corporate Environmental Management, (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances:

None.

Section 304 CERCLA Hazardous Substances:

None.

Section 312 Hazard Class:

Acute: Yes
Chronic: No
Fire: No
Pressure: No
Reactive: No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachusetts

CAS Number	Wt %	Component Name
7631-86-9	10.0 - 30.0	Silica, amorphous

New Jersey

CAS Number	Wt %	Component Name
70131-67-8	> 60.0	Dimethyl siloxane, hydroxy-terminated
7631-86-9	10.0 - 30.0	Silica, amorphous
4253-34-3	1.0 - 5.0	Methyltriacetoxysilane
17689-77-9	1.0 - 5.0	Ethyltriacetoxysilane

Pennsylvania

CAS Number	Wt %	Component Name
70131-67-8	> 60.0	Dimethyl siloxane, hydroxy-terminated
7631-86-9	10.0 - 30.0	Silica, amorphous

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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