

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Issue date 09/09/2024

Revised on 09/09/2024

1 Identification

· **Product Identifier**

· **Trade Name: Therm-a-Lube nC (Nano-Ceramic Grease)**

· **Relevant identified uses of the substance or mixture and uses advised against:**

· **Product Description:**

An extreme temperature lubricant for demanding Suppressor & Machine-gun applications; Therm-a-Lube combines a high fraction of ceramic solid lubricants with nanoparticle technology for continuous protection to 2400F.

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**

Precision Armament
4110 Niles Hill Road
Wellsville, NY 14895
P: (585) 593-3169

· **Emergency telephone number:** (585) 593-3169

* 2 Hazard(s) Identification

· **Classification of the substance or mixture:**



Health hazard

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.



Corrosion

Skin Corrosion 1C

H314 Causes severe skin burns and eye damage.

Eye Damage 1

H318 Causes serious eye damage.



Sensitization - Skin 1

H317 May cause an allergic skin reaction.

· **Label elements:**

· **Hazard pictograms:**



· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Calcium Oxide
Distillates (petroleum), solvent-refined heavy paraffinic
Sulfonic acids, petroleum, calcium salts
diboron trioxide

· **Hazard statements:**

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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H361 Suspected of damaging fertility or the unborn child.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dusts or mists.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of water.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison center/doctor.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values. 39.6 % of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

Chemical characterization: Substance

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:

CAS: 64741-88-4	Distillates (petroleum), solvent-refined heavy paraffinic ☠ Carcinogenicity 1B, H350	15-35%
CAS: 1305-78-8 RTECS: EW 3100000	Calcium Oxide ☠ Skin Corrosion 1A, H314; Eye Damage 1, H318	15-35%
CAS: 64742-01-4	Residual oils (petroleum), solvent-refined ☠ Carcinogenicity 1B, H350	15-35%
CAS: 64742-53-6	Distillates (petroleum), hydrotreated light naphthenic ☠ Carcinogenicity 1B, H350	2-12%
CAS: 1305-62-0 RTECS: EW 2800000	Calcium hydroxide ☠ Skin Corrosion 1A, H314; Eye Damage 1, H318; ☠ Acute Toxicity - Oral 4, H302	2-12%
CAS: 61789-86-4	Sulfonic acids, petroleum, calcium salts ☠ Sensitization - Skin 1, H317	2-12%

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CAS: 64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic ☠ Carcinogenicity 1B, H350	≤2.5%
CAS: 1303-86-2 RTECS: ED 7900000	diboron trioxide ☠ Toxic to Reproduction 1B, H360	≤2.5%

Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.
- **After skin contact:**
Wash with soap and water. Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse.
- **After eye contact:**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
- **After swallowing:** Keep individual calm. Do not induce vomiting. Get medical attention.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:** Treat symptomatically.

5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**
No further relevant information.
Water
- **Special hazards arising from the substance or mixture:**
Oxides of nitrogen. Oxides of carbon. Oxides of sulfur. Calcium oxide. Toxic fumes.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **Reference to other sections:**
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· PAC-1:		
1305-78-8	Calcium Oxide	6 mg/m ³
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	140 mg/m ³
1305-62-0	Calcium hydroxide	15 mg/m ³
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	140 mg/m ³
1303-86-2	diboron trioxide	30 mg/m ³
· PAC-2:		
1305-78-8	Calcium Oxide	42 mg/m ³
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	1,500 mg/m ³
1305-62-0	Calcium hydroxide	240 mg/m ³
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	1,500 mg/m ³
1303-86-2	diboron trioxide	100 mg/m ³
· PAC-3:		
1305-78-8	Calcium Oxide	250 mg/m ³
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	8,900 mg/m ³
1305-62-0	Calcium hydroxide	1,500 mg/m ³
64742-65-0	Distillates (petroleum), solvent-dewaxed heavy paraffinic	8,900 mg/m ³
1303-86-2	diboron trioxide	620 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:**
 Keep container closed. Keep in a cool, well ventilated area.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
 The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
 At this time, the other constituents have no known exposure limits.

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64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic	
PEL	Short-term value: 5 mg/m ³
REL	Short-term value: 5 mg/m ³ Long-term value: 10 mg/m ³
TWA	Short-term value: 1 mg/m ³ Long-term value: 3 mg/m ³
1305-78-8 Calcium Oxide	
PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 2 mg/m ³
TLV	Long-term value: 2 mg/m ³
1305-62-0 Calcium hydroxide	
PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³
61789-86-4 Sulfonic acids, petroleum, calcium salts	
ACGIH	Ceiling limit value: 5 mg/m ³
ACGIH TLV	Ceiling limit value: 5 mg/m ³
OSHA PEL	Ceiling limit value: 5 mg/m ³
64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic	
TWA	Short-term value: 5 mg/m ³
1303-86-2 diboron trioxide	
PEL	Long-term value: 15* mg/m ³ *total dust
REL	Long-term value: 10 mg/m ³
TLV	Long-term value: 10 mg/m ³

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the

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resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Grease

Color: Grey

· **Odor:** Odorless

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

· **Flash point:** None

· **Flammability:** Not applicable.

· **Auto igniting:** Not applicable

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: Not determined.

Upper: Not determined.

· **Vapor pressure:** Not determined.

· **Density:** Not determined.

· **Relative density:** Not determined.

· **Vapor density:** Not determined.

· **Evaporation rate:** Not determined.

· **Solubility in / Miscibility with:**

Water: Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not determined.

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Trade Name: Therm-a-Lube nC (Nano-Ceramic Grease)

- Kinematic:** Not determined.
- **Solvent content:**
- VOC content:** 0.00 %
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:**
Keep away from heat, ignition sources and incompatible materials. Avoid dust formation.
- **Incompatible materials:**
Strong acids and strong bases. Strong oxidizing agents. Strong reducing agents. Water. Alkalis.
- **Hazardous decomposition products:**
Oxides of carbon. Oxides of nitrogen. Oxides of sulfur. Calcium oxide. Toxic fumes.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
1305-78-8 Calcium Oxide		
Oral	LD50	500 mg/kg (Rat)
1305-62-0 Calcium hydroxide		
Oral	LD50	7,340 mg/kg (Rat)
61789-86-4 Sulfonic acids, petroleum, calcium salts		
Oral	LD50	20,000 mg/kg (Rat) United States Environmental Protection Agency, Office of Pesticides and Toxic Substances. Vol. 8EHQ-0191-1107
64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic		
Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>2,400 mg/l (Rat)

- **Primary irritant effect:**
- **On the skin:**
Strong caustic effect on skin and mucous membranes.
May cause an allergic skin reaction.
- **On the eye:**
Strong irritant with the danger of severe eye injury.
Corrosive effect.
Causes serious eye irritation.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Irritant

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Trade Name: Therm-a-Lube nC (Nano-Ceramic Grease)

Carcinogenic
Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
 - Group 1 - Carcinogenic to humans
 - Group 2A - Probably carcinogenic to humans
 - Group 2B - Possibly carcinogenic to humans
 - Group 3 - Not classifiable as to its carcinogenicity to humans
 - Group 4 - Probably not carcinogenic to humans

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 3 (Self-assessment): extremely hazardous for water
 - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 - Must not reach bodies of water or drainage ditch undiluted or unneutralized.
 - Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**
 - Must not be disposed of together with household waste. Do not allow product to reach sewage system.
 - Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, IMDG, IATA** Non-Regulated Material

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- **ADR/ADN** UN-
- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
No further relevant information available.
- **SARA (Superfund Amendments and Reauthorization):**

<ul style="list-style-type: none"> · Section 355 (extremely hazardous substances):
None of the ingredients are listed.

<ul style="list-style-type: none"> · Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.

<ul style="list-style-type: none"> · TSCA (Toxic Substances Control Act):
All components have the value ACTIVE.

<ul style="list-style-type: none"> · Hazardous Air Pollutants
None of the ingredients are listed.

<ul style="list-style-type: none"> · California Proposition 65:
<ul style="list-style-type: none"> · Chemicals known to cause cancer:
None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity:
None of the ingredients are listed.

<ul style="list-style-type: none"> · New Jersey Right-to-Know List:
7782-42-5 Graphite
1305-78-8 Calcium Oxide
26264-06-2 calcium dodecylbenzenesulfonate
1305-62-0 Calcium hydroxide
1303-86-2 diboron trioxide

<ul style="list-style-type: none"> · New Jersey Special Hazardous Substance List: 	
1305-78-8 Calcium Oxide	CO, R1

<ul style="list-style-type: none"> · Pennsylvania Right-to-Know List:
7782-42-5 Graphite

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1305-78-8	Calcium Oxide
26264-06-2	calcium dodecylbenzenesulfonate
1305-62-0	Calcium hydroxide
1303-86-2	diboron trioxide

· **Pennsylvania Special Hazardous Substance List:**

26264-06-2	calcium dodecylbenzenesulfonate	E
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· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

1303-86-2	diboron trioxide	I (oral)
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· **TLV (Threshold Limit Value established by ACGIH):**

None of the ingredients are listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Calcium Oxide
 Distillates (petroleum), solvent-refined heavy paraffinic
 Sulfonic acids, petroleum, calcium salts
 diboron trioxide

· **Hazard statements:**

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H361 Suspected of damaging fertility or the unborn child.

· **Precautionary statements:**

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dusts or mists.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 P302+P352 If on skin: Wash with plenty of water.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a poison center/doctor.
 P308+P313 IF exposed or concerned: Get medical advice/attention.

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Trade Name: Therm-a-Lube nC (Nano-Ceramic Grease)

P321	Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Contact:**· Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A
Skin Corrosion 1C: Skin corrosion/irritation – Category 1C
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 1B: Carcinogenicity – Category 1B
Toxic to Reproduction 1B: Reproductive toxicity – Category 1B
Toxic to Reproduction 2: Reproductive toxicity – Category 2

· * Data compared to the previous version altered.

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