



SAFETY DATA SHEET

Product Name: TEMPCO CML00010 BNS Anti-Seize Spray

Section 1. Product and company identification

Product name: CML00010 / Paint BN Spray Paint II
Other means of identification: Boron Nitride Powder in Hydrocarbon Solvents and Carriers

Recommended Use and restriction on use: Recommended use: For industrial use only
Restrictions on use: Not Known

**Manufacturer/Importer:
/Distributor Information** Momentive Performance Materials - Strongsville
22557 West Lunn Road
Strongsville OH 44149

Contact person: commercial.services@momentive.com

Telephone: General information +1-800-295-2392

Emergency telephone number Supplier: CHEMTREC 1-800-424-9300

Section 2. Hazards identification

Hazard Classification:

Physical Hazards

Flammable Aerosol Category 1

Health Hazards

Serious Eye Damage/ Eye Irritation Category 2A
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1B
Specific Target Organ Toxicity - Category 3¹
Single Exposure
Specific Target Organ Toxicity - Category 1²
Repeated Exposure

Targeted Organs

1. Respiratory tract irritation, narcotic effect.
2. Skin, Liver, Central nervous system, Kidney



Unknown toxicity – Health

Acute toxicity, oral	0%
Acute toxicity, dermal	0%
Acute toxicity, inhalation, gas	0%
Acute toxicity, inhalation, vapor	0%
Acute toxicity, inhalation, dust or mist	0%

Label Elements**Hazard Symbol:****Signal word:**

Danger

Hazard statements:

H222; Extremely flammable aerosol.
H319; Causes serious eye irritation.
H340; May cause genetic defects.
H350; May cause cancer.
H335; May cause respiratory irritation.
H336; May cause drowsiness and dizziness.
H280; Contains gas under pressure; may explode if heated.
H315; Causes skin irritation.
H372; Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard

Precautionary Statements**Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Call a POISON CENTRE/doctor if you feel unwell.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/ 122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification None.

Section 3. Composition/information on ingredients

Mixtures

<u>Chemical Identity</u>	<u>CAS number</u>	<u>Content in Percent (%)</u>	<u>Notes</u>
Petroleum gases, liquified; Petroleum gas	68476-85-7	20 - <50%	# This substance has workplace exposure limit(s).
Ethanol	64-17-5	20 - <50%	# This substance has workplace exposure limit(s).
Acetone	67-64-1	20 - <50%	# This substance has workplace exposure limit(s).
Quaternary Ammonium Compounds, benzyl (hydrogenated tallow alkyl) dimethyl, chlorides compds. with bentonite		1 – <5%	No data available

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Section 4. First aid measures

Ingestion: Do NOT induce vomiting. If conscious, drink plenty of water. Do not give victim anything to drink if he is unconscious.

Inhalation: Move the exposed person to fresh air at once.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Get medical attention if symptoms persist.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If swallowed, do NOT induce vomiting. Give a glass of water. Do not give victim anything to drink if he is unconscious.

Section 5. Fire-fighting measures

General Fire Hazards: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Vapors may form explosive mixture with air. Keep away from sources of ignition - No smoking.

Special protective equipment for fire-fighters:

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use ground strap and appropriate precautions for dispensing flammable liquids. Avoid contact with eyes, skin, and clothing. Keep out of reach of children.

Methods and material for containment and cleaning up:

Warn other workers of spill. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

Section 7. Handling and storage

Precautions for safe handling:

Sensitivity to static discharge is expected; material has a flash point below 200 F.

Conditions for safe storage, including any incompatibilities:

Keep away from heat, sparks and open flame.
Keep container closed. Store in original container.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

<u>Chemical Identity</u>	<u>Type</u>	<u>Exposure Limit Values</u>	<u>Source</u>
Petroleum gases, liquefied; Petroleum gas	REL	1,000 ppm 1,800 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Ethanol	PEL	1,000 ppm 1,800 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants 29 CFR 1910.1000 (02 2006)
	TWA	1,000 ppm 1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (03 2015)

<u>Chemical Identity</u>	<u>Type</u>	<u>Exposure Limit Values</u>	<u>Source</u>
Acetone	REL	1,000 ppm 1,900 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,000 ppm 1,900 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm 1,900 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1,000 ppm 1,900 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	1,910 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
	AN ESL	1,880 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality)
	AN ESL	1,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
	ST ESL	1,010 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
	TWA PEL	1,000 ppm 1,900 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	TWA	250 ppm	US. ACGIH Threshold Limit Values (03 2015)
	STEL	500 ppm	US. ACGIH Threshold Limit Values (03 2015)
	REL	250 ppm 590 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,000 ppm 2,400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	750 ppm 1,800 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	1,000 ppm 2,400 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	750 ppm 1,800 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
STEL	1,000 ppm 2,400 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)	
ST ESL	7,800 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)	

<u>Chemical Identity</u>	<u>Type</u>	<u>Exposure Limit Values</u>	<u>Source</u>
	AN ESL	4,800 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
	ST ESL	3,300 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
	AN ESL	2,000 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (03 2014)
	Ceiling	3,000 ppm	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	STEL	750 ppm 1,780 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)
	TWA PEL	500 ppm 1,200 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015)

Biological Limit Values

<u>Chemical Identity</u>	<u>Exposure Limit Values</u>	<u>Source</u>
Acetone (acetone: Sampling time: End of shift.)	25 mg/l (Urine)	ACGIH BEI (03 2015)

Appropriate Engineering Controls

Provide eyewash station and safety shower. General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment.

Individual protection measures, such as personal protective equipment

General information:

Use only in well-ventilated areas. When using do not eat, drink or smoke.

Eye/face protection:

Monogoggles

Skin Protection /Hand Protection:

Chemical resistant gloves

Other:

Wear suitable protective clothing and eye/face protection.

Respiratory Protection:

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

Hygiene measures:

Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat, drink or smoke. Do not breathe vapors.

Section 9. Physical and chemical properties**Appearance:**

Physical state: Gas and aerosol mists
Form: Aerosols
Color: White

Odor: Sweet

Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: < -17.8 °C Propellant

Evaporation rate: > 1

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available.

Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Heat of combustion: No data available.

Vapor pressure: > 10.1 hPa

Vapor density: > 1

Density: 0.85 g/cm³ (20°C)

Relative density: No data available.

Solubility(ies)

Solubility in water: Slightly Soluble

Solubility (other): No data available.

Partition coefficient No data available.

(n-octanol/water) Log Pow:

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

SADT: No data available.

Viscosity, dynamic: No data available.

Viscosity, kinematic: No data available.
VOC: No data available.

Section 10. Stability and reactivity

Reactivity: No data available
Chemical stability: Material is stable under normal conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Incompatible materials: Strong oxidizing agents, strong reducing agents.

Hazardous decomposition products: In case of fire, gives off (emits): Oxides of boron. Nitrogen Oxides. Carbon oxides Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Section 11. Toxicological information

Information on likely routes of exposure

Ingestion: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.

Information on toxicological effects

Acute toxicity

(list all possible routes of exposure)

Oral Product: Not classified for acute toxicity based on available data.
Dermal Product: Not classified for acute toxicity based on available data.

Inhalation Product:	Not classified for acute toxicity based on available data.
Specified substance(s): Ethanol	LC50 (Mouse): 39 mg/l; LC50 (Rat): 38.3 mg/l
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritation Product:	No data available.
Respiratory or Skin Sensitization Product:	No data available.
Carcinogenicity Product:	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity - Single Exposure Product:	No data available.
Specific Target Organ Toxicity - Repeated Exposure Product:	No data available.
Target Organs	
Specific Target Organ Toxicity - Single Exposure:	Respiratory tract irritation, Narcotic effect.
Specific Target Organ Toxicity - Repeated Exposure:	Skin, Liver, Central nervous system, Kidney.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

Section 12. Ecological information**Ecotoxicity:****Acute hazards to the aquatic environment:**

Fish Product:	No data available.
Specified substance(s): Ethanol	LC50 (No data available, 96 h): 15,400 mg/l LC50 (Pimephales promelas, 96 h): 14,200 mg/l

Acetone	LC50 (Lepomis macrochirus, 96 h): 8,300 mg/l LC0 (Leuciscus idus, 48 h): 6,320 mg/l LC50 (Leuciscus idus, 48 h): 7,505 mg/l
Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquatic environment:	
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	
Biodegradation Product:	No data available.
Specified substance(s): Acetone	50 % (5 d, No data available.) 78 % (28 d, No data available.)
BOD/COD Ratio Product:	No data available.
Bioaccumulative potential	
Bioconcentration Factor (BCF) Product:	No data available.
Partition Coefficient n-octanol / water (log Kow) Product:	No data available.
Mobility in soil:	No data available.
Known or predicted distribution to environmental compartments	
Petroleum gases, liquefied;	No data available.
Petroleum gas	
Ethanol	No data available.
Acetone	No data available.
Quaternary ammonium compounds, benzyl (hydrogenated tallow alkyl) dimethyl, chlorides compds. with bentonite	No data available.
Other adverse effects:	No data available.

Section 13. Disposal considerations

General information:	The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. This product is highly flammable. Don't use fire to cut empty container after use. In a well ventilated area, keep away from ignition source, push the button to make a spray can empty and make a hole with an appropriate can opener to eliminate internal pressure. After that, scrap the ...
Disposal instructions:	Disposal should be made in accordance with federal, state and local regulations.
Contaminated Packaging:	Dispose of as unused product

Section 14. Transport information

DOT

UN Number:	UN 1950
UN Proper Shipping Name:	LTD QTY - Aerosols, flammable, (each not exceeding 1 L capacity)
Transport Hazard Class(es)	
Class:	2.1
Label(s):	2.1
Packing Group:	–
Marine Pollutant:	No

IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	AEROSOLS
Transport Hazard Class(es)	
Class:	2.1
Label(s):	2.1, 6.1, 8
EmS No.:	F-D
Packing Group:	–
Marine Pollutant:	No
Limited quantity	
Excepted quantity	E0

IATA

UN Number:	UN 1950
Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es):	
Class:	2.1

Label(s):	2.1
Packing Group:	–
Cargo aircraft only Packing Instructions:	203
Passenger and cargo aircraft Packing Instructions:	203
Limited quantity:	30.00KG
Packing Instructions:	Y203
Excepted quantity	E0
Environmental Hazards:	Not regulated.
Marine Pollutant:	No
Special precautions for user:	Aerosol cans containing fire risk materials

Section 15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethanol	100 lbs.
Acetone	5,000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

- Fire Hazard
- Immediate (Acute) Health Hazards
- Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Ethanol	100 lbs.
Acetone	5,000 lbs.

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Petroleum gases, liquefied;	10,000 lbs
Petroleum gas	
Ethanol	10,000 lbs
Acetone	10,000 lbs
Quaternary ammonium compounds,	10,000 lbs

benzyl (hydrogenated tallow alkyl)
dimethyl, chlorides compds. With
bentonite

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Petroleum gases, liquefied; Petroleum gas

Ethanol

Acetone

Boron nitride (44% as Boron)

Quaternary ammonium compounds, benzyl (hydrogenated tallow alkyl) dimethyl, chlorides compds. with bentonite

US. Massachusetts RTK - Substance List

Chemical Identity

Petroleum gases, liquefied; Petroleum gas

Ethanol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Petroleum gases, liquefied; Petroleum gas

Ethanol

US. Rhode Island RTK

Chemical Identity

Petroleum gases, liquefied; Petroleum gas

Ethanol

Inventory Status:

Australia AICS:	n (Negative listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	y (positive listing)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.

Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: None.
Taiwan Chemical Substance Inventory:	y (positive listing)	Remarks: None.

Section 16. Other information, including date of preparation or last revision

Hazardous Material Information System III (U.S.A.) :

Health - 2

Flammability - 3

Physical hazards - 0

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe;
RNP - Rating not possible; *Chronic health effect

Issue Date: 11/19/2018

Revision Date: No data available.

Version #: 2.0

Further Information: No data available

Disclaimer:

Notice to reader Unless otherwise specified in section 1.2, Momentive Products / Tempco are intended for industrial application only. They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. ®, *, and TM indicate trademarks owned by or licensed to Momentive.