



Section 1. Identification

Product identifier	MPC-180B
Other means of identification	None
Recommended use and restrictions on use	Hardener
Initial manufacturer identifier	Master Protective Coatings Inc. 8615 rue du Creusot St.-Leonard, Quebec HIP 2A8 1-800-324-5819
Emergency telephone number/restriction on use	Canada – CANUTEC 24 hour number 613-996-6666

Section 2. Hazard identification

Classification of hazardous product (name of the category or subcategory of the hazard class)

- Acute toxicity oral (Category 4)
- Acute toxicity dermal (Category 4)
- Skin corrosion (Category 1)
- Serious eye damage (Category 1)
- Skin sensitization (Category 1)
- Mutagenicity (Category 2)
- Reproductive toxicity (Category 2)
- Hazardous to the aquatic environment – Acute (Category 1)
- Hazardous to the aquatic environment – Chronic (Category 1)

Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory)



- Danger
- H302 Harmful if swallowed.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.
 - H317 May cause an allergic skin reaction.
 - H341 Suspected of causing genetic defects.
 - H361 Suspected of damaging fertility or the unborn child.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - 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.
 - P264 Wash hands/nails/face thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P272 Contaminated work clothing should not be allowed out of the workplace.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 - P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P312 Call a doctor if you feel unwell.
 - P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P363 Wash contaminated clothing before reuse. P332 + P313 IF SKIN irritation or rash occurs: Get medical attention.
 - P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a doctor.
 - P308 + P313 IF exposed or concerned: Get medical attention.
 - P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.



Other hazards known None

Section 3. Composition/information on ingredients

Chemical name (common name/synonyms)	CAS number or other	Concentration (%)
Cashew, nutshell liquid	8007-24-7	10-30
2,4,6-tris(Dimethylaminomethyl) phenol	90-72-2	< 5
1,3-Benzenedimethanamine	1477-55-0	< 5
Phenol	108-95-2	< 2
N,N-Dimethyl-1,3-diaminopropane	109-55-7	< 2
P-Nonylphenol	84852-15-3	10-30

* Statement - This safety data sheet provides concentration range(s) instead of the actual concentration(s) considered trade secret(s).

Section 4. First-aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor.
Ingestion	IF SWALLOWED: Immediately call a doctor. DO NOT INDUCE VOMITING. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.
Skin contact	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (15-20 minutes). Wash contaminated clothing before reuse.
Eye contact	IF IN EYES, Rinse cautiously with water for several minutes (15-20). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Most important symptoms and effects (acute or delayed)	Causes severe skin, respiratory or digestive tract burns and eye damage.
Indication of immediate medical attention/special treatment	In all cases, call a doctor. Do not forget this document.

Section 5. Fire-fighting measures

Specific hazards of the hazardous product (hazardous combustion products)

Carbon oxides and other irritant/toxic gases and fumes.

Suitable and unsuitable extinguishing media

In case of fire: Use carbon dioxide, chemical powder agent and appropriate foam to extinguish surrounding products.

Special protective equipment and precautions for fire-fighters

During a fire, irritating/toxic smoke and fumes may be generated. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece. Shield personnel to protect from venting, rupturing or bursting cans. Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Section 7. Handling and storage

Precautions for safe handling

Wear gloves/protective clothing/eye protection/face protection.

Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers



for leaks before handling. Label containers appropriately. Ensure proper ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

Section 8. Exposure controls/Personal protection

Control parameters (biological limit values or exposure limit values and source of those values)

Exposure limits: CAS 1477-55-0 – ACGIH – TLV-TWA 0.1 mg/m³ & TLV-STEL 0.1 mg/m³ & PEL-TWA C 0.1 mg/m³; CAS 108-95-2 – ACGIH – TLV-TWA 5 ppm & PEL-TWA 19 mg/m³;

Appropriate engineering controls

Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures/personal protective equipment

Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. We recommend wearing chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact during all handling operations. We recommend wearing protective chemical splash goggles/safety glasses or other to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

Section 9. Physical and chemical properties

Appearance, physical state/colour	Viscous liquid	Vapour pressure	Not available
Odour	Characteristic	Vapour density	Not available
Odour threshold	Not available	Relative density	0.979
pH	Not available	Solubility	Not available
Melting/freezing point	Not available	Partition coefficient	- n- Not available
		octanol/water	
Initial boiling point/range	Not available	Auto-ignition temperature	Not available
Flash point	Not available	Decomposition temperature	Not available
Evaporation rate	Not available	Viscosity	Not available
Flammability (solids and gases)	Not available	VOC	Not available
Upper and lower flammability/explosive limits	Not available	Other	None known

Section 10. Stability and reactivity

Reactivity

Does not react under the recommended storage and handling conditions prescribed.

Chemical stability

Stable under the recommended storage and handling conditions prescribed.

Possibility of hazardous reactions

None known

Conditions to avoid (static discharge, shock or vibration)

None known

Incompatible materials

Oxidizing materials; Acids; etc.

Hazardous decomposition products

None known



Section 11. Toxicological information

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child.

Symptoms related to the physical, chemical and toxicological characteristics

Skin burn, redness, stinging, pain; Eye burn, redness, tearing; Digestive tract burn; Respiratory tract burn, coughing, shortness of breath, dizziness, drowsiness, nausea and headaches.

Delayed and immediate effects (chronic effects from short-term and long-term exposure)

Skin Sensitization – Possible;

Respiratory Sensitization – No data available;

Germ Cell Mutagenicity – Possible;

Carcinogenicity – No ingredient listed by IARC, ACGIH, NTP or OSHA;

Reproductive Toxicity – Possible;

Specific Target Organ Toxicity — Single Exposure – No data available;

Specific Target Organ Toxicity — Repeated Exposure – No data available;

Aspiration Hazard – No data available;

Health Hazards Not Otherwise Classified – No data available.

Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)

CAS 84852-15-3 LD₅₀ Oral - Rat – 1246 mg/kg & LD₅₀ Dermal - Rabbit – 2040 mg/kg; CAS 8007-24-7 LD₅₀ Oral - Rat – 317 mg/kg & LD₅₀

Dermal - Rabbit – 850 mg/kg; CAS 90-72-2 LD₅₀ Oral - Rat – 2196 mg/kg; CAS 1477-55-0 LD₅₀ Oral - Rat – 980 mg/kg & LD₅₀ Dermal - Rabbit

– 2000 mg/kg & CL₅₀ Inhalation - Rat – 1,34 mg/L 4H; CAS 108-95-2 LD₅₀ Oral - Rat – 530 mg/kg & LD₅₀ Dermal - Rabbit – 669 mg/kg; CAS

109-55-7 LD₅₀ Oral - Rat – 410 mg/kg & LD₅₀ Dermal - Rabbit – 1630 mg/kg;

ATE not available in this document.

Section 12. Ecological information

Ecotoxicity (aquatic and terrestrial information) No data available for this product

Persistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects Toxic to aquatic life with long lasting effects.

Section 13. Disposal considerations

Information on safe handling for disposal/methods of disposal/contaminated packaging

Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Section 14. Transport information

UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations

UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (P-Nonylphenol); CLASS 8; PG III

UN number; Proper shipping name; Class(es); Packing group (PG) of the 49 CFR (USA)

UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (P-Nonylphenol); CLASS 8; PG III

UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)

UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (P-Nonylphenol); CLASS 8; PG III

UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air)

UN3267; CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (P-Nonylphenol); CLASS 8; PG III

Special precautions (transport/conveyance)

May also be shipped as a LIMITED QUANTITY in accordance with TDG.



Environmental hazards (IMDG or other) Marine Pollutant
Bulk transport (usually more than 450 L in capacity) Possible

Section 15. Regulatory information

Safety/health Canadian regulations specifics Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Environmental Canadian regulations specifics Refer to Section 3 for ingredient(s) of the DSL

Safety/health/environmental outside regulations specifics

United States OSHA information: This product is regulated according to OSHA (29 CFR).
 United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.
 United States TCSA information: Refer to the ingredients listed in Section 3.
 National Fire Protection Association (NFPA):
 HEALTH: 3 FLAMMABILITY: 1 INSTABILITY: 0 SPECIAL HAZARDS: Refer to Section 2 & 3.
 HAZARD SCALE: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
 Proposition 65: This product does not contain a chemical known to the State of California to cause cancer or other reproductive harm.

Section 16. Other information

Date of the latest revision of the safety data sheet March 11, 2020 version 1 (NSS ENTREPRISE INC.)

References Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
CAS	Chemical Abstract Service
DSL	Domestic Substance List
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC	Lethal concentration
LD	Lethal Dosage
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
STEL	Short-term Exposure Limit
TDG	Transport of dangerous goods in Canada
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Materials Information System

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