

**SECTION 1: Identification****1.1. Identification**

Product form : Mixture  
Product name : PRIME LOCK ADDITIVE  
Product code : FAD0004

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

No additional information available

**1.3. Details of the supplier of the safety data sheet**

Endura Manufacturing Company Ltd.  
12425 149 Street NW  
Edmonton, T5L 2J6 - Canada  
T 1-780-451-4242 - F 1-780-452-5079  
[info@endura.ca](mailto:info@endura.ca) - [www.endurapaint.com](http://www.endurapaint.com)

**1.4. Emergency telephone number**

Emergency number : In the event of an emergency involving dangerous goods:  
in Canada call CHEMTREC at 1-800-424-9300 24 hours / 7 days (Account Name for Canada  
Endura Manufacturing Co. Ltd.)  
in the US call CHEMTREC at 1-800-424-9300 24 hours / 7 days (Account Name for US is  
Polyglass Coatings)

**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS US classification**

Oxidizing solids Category 2	H272	May intensify fire; oxidizer
Acute toxicity (oral) Category 4	H302	Harmful if swallowed
Specific target organ toxicity (single exposure) Category 3	H335	May cause respiratory irritation

Full text of H statements : see section 16

**2.2. Label elements****GHS US labeling**

Hazard pictograms (GHS-US) :



GHS03

GHS07

Signal word (GHS-US) :

: Danger

Hazard statements (GHS-US) :

: H272 - May intensify fire; oxidizer  
H302 - Harmful if swallowed  
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220 - Keep/Store away from clothing and other combustible materials  
P221 - Take any precaution to avoid mixing with combustible materials  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P312 - Call a poison center/doctor/physician if you feel unwell  
P330 - Rinse mouth.  
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2) to extinguish  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with all local, regional, national and international regulations.

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### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	wt%	GHS US classification
trichloroisocyanuric acid	(CAS-No.) 87-90-1	≥ 80	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Wash immediately with lots of water (15 minutes)/shower. Consult a doctor/medical service.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water for 15 minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Give nothing or a little water to drink. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : Irritation of the nasal mucous membranes. Irritation of the respiratory tract. AFTER INHALATION OF DUST: Corrosion of the upper respiratory tract. Corrosive to the respiratory tract. Cough. Shortness of breath. Risk of lung oedema.
- Symptoms/effects after skin contact : Causes skin irritation. Burns. Red skin. Swelling of the skin. ON CONTINUOUS EXPOSURE/CONTACT: Destruction of tissue.
- Symptoms/effects after eye contact : Causes serious eye irritation. Burns. Causes serious eye damage.
- Symptoms/effects after ingestion : Burns to the gastric/intestinal mucosa. Can result in irritation in the digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting, and diarrhea. Bleeding of the gastrointestinal tract.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Hospitalize at once.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Water. Water spray. Large amounts of water may be needed and the flow of water should not be stopped until the fire/reaction has stopped.
- Unsuitable extinguishing media : Do not use dry chemical powder (containing ammonia compounds).

### 5.2. Special hazards arising from the substance or mixture

- Reactivity : Decomposes on exposure to temperature rise: release of (highly) toxic gases/vapours (chlorine). Decomposes on exposure to temperature rise: release of harmful/irritant gases/vapours (carbon monoxide - carbon dioxide). Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (hydrogen cyanide, nitrous vapours). Reacts exothermically with water (moisture).

### 5.3. Advice for firefighters

- Firefighting instructions : Cool tanks/drums with water spray/remove them into safety.
- Protection during firefighting : Self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : CAUTION -  
Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

##### 6.1.1. For non-emergency personnel

Protective equipment : Protective goggles. Face shield. Protective clothing. Gloves. Corrosion-proof suit.  
Emergency procedures : Do not breathe dust. Do not breathe gas. Do not breathe vapors. Do not get in eyes, on skin, or on clothing. Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes and clothing. Do not get in eyes, on skin, or on clothing.  
Hygiene measures : Always wash hands after handling the product. Wash contaminated clothing before reuse. Wash thoroughly after handling. Remove contaminated clothes. Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store at temperatures not exceeding 60C/140F. Store in a well-ventilated place. Keep cool.  
Storage temperature : < 60 °C

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Hand protection : protective gloves.  
Eye protection : Chemical goggles or face shield.  
Skin and body protection : Corrosion-proof clothing.  
Respiratory protection : Wear respiratory protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Color : No data available  
Odor : chlorine-like  
Odor threshold : No data available  
pH : 2.7 – 2.9 1%  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Relative evaporation rate (butyl acetate=1) : No data available

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Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: > 1
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 225 °C
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Decomposes on exposure to temperature rise: release of (highly) toxic gases/vapours (chlorine). Decomposes on exposure to temperature rise: release of harmful/irritant gases/vapours (carbon monoxide - carbon dioxide). Decomposes on exposure to temperature rise: release of toxic/corrosive/combustible gases/vapours (hydrogen cyanide, nitrous vapours). Reacts exothermically with water (moisture).

### 10.2. Chemical stability

No additional information available

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Do not package in paper or cardboard. Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds.

### 10.5. Incompatible materials

acids. Oxidizing agent. strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Nitrogen trichloride, chlorine, nitrous oxides, cyanates, carbon monoxide, carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Likely routes of exposure	: Skin and eye contact; Inhalation; Ingestion
Acute toxicity	: Not classified

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LD50 oral rat	490 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	490 mg/kg body weight
trichloroisocyanuric acid (87-90-1)	
LD50 oral rat	406 mg/kg (Rat)
LD50 dermal rabbit	20000 mg/kg (Rabbit)
ATE US (oral)	406 mg/kg body weight
ATE US (dermal)	20000 mg/kg body weight

Skin corrosion/irritation	: Not classified pH: 2.7 – 2.9 1%
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Serious eye damage/irritation	: Not classified pH: 2.7 – 2.9 1%
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: Irritation of the nasal mucous membranes. Irritation of the respiratory tract. AFTER INHALATION OF DUST: Corrosion of the upper respiratory tract. Corrosive to the respiratory tract. Cough. Shortness of breath. Risk of lung oedema.
Symptoms/effects after skin contact	: Causes skin irritation. Burns. Red skin. Swelling of the skin. ON CONTINUOUS EXPOSURE/CONTACT: Destruction of tissue.
Symptoms/effects after eye contact	: Causes serious eye irritation. Burns. Causes serious eye damage.
Symptoms/effects after ingestion	: Burns to the gastric/intestinal mucosa. Can result in irritation in the digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting, and diarrhea. Bleeding of the gastrointestinal tract.

## SECTION 12: Ecological information

### 12.1. Toxicity

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LC50 fish 1	0.32 mg/l Rainbow trout
EC50 Daphnia 1	0.21 mg/l
LC50 fish 2	0.3 mg/l bluegill sun fish

  

trichloroisocyanuric acid (87-90-1)	
LC50 fish 1	0.32 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	0.05 – 0.25 mg/l (EC50; 48 h)

### 12.2. Persistence and degradability

trichloroisocyanuric acid (87-90-1)	
Persistence and degradability	Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

trichloroisocyanuric acid (87-90-1)	
BCF fish 1	1.5 mg/l (BCF; 48 h)
Partition coefficient n-octanol/water (Log Pow)	0.9 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

### 12.4. Mobility in soil

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Mobility in soil	Expected to be highly mobile in soil

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with all local, regional, national and international regulations. If this product becomes waste, it will be a hazardous waste that is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly. Care must be taken to prevent environmental contamination from the use of this material.
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### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2468 Trichloroisocyanuric acid, dry, 5.1, II

UN-No. (DOT) : UN2468

Proper Shipping Name (DOT) : Trichloroisocyanuric acid, dry

Class (DOT) : 5.1 - Class 5.1 - Oxidizer 49 CFR 173.128

Hazard labels (DOT) : 5.1 - Oxidizer



Packing group (DOT) : II - Medium Danger

DOT Packaging Non Bulk (49 CFR 173.xxx) : 212

DOT Packaging Bulk (49 CFR 173.xxx) : 240

DOT Special Provisions (49 CFR 172.102) : IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).  
IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.  
IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.

T3 - 2.65 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 152

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 kg

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 25 kg

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 13 - Keep as dry as reasonably practicable

Other information : No supplementary information available.

#### Transportation of Dangerous Goods

Transport document description : UN2468 TRICHLOROISOCYANURIC ACID, DRY (TRICHLOROISOCYANURIC ACID, DRY), 5.1, II

UN-No. (TDG) : UN2468

Proper Shipping Name (Transportation of Dangerous Goods) : TRICHLOROISOCYANURIC ACID, DRY

TDG Primary Hazard Classes : 5.1 - Class 5.1 - Oxidizing Substances

Packing group : II - Medium Danger

Explosive Limit and Limited Quantity Index : 1

Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5

#### Transport by sea

UN-No. (IMDG) : 2468

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Proper Shipping Name (IMDG) : TRICHLOROISOCYANURIC ACID, DRY  
Class (IMDG) : 5.1 - Oxidizing substances  
Packing group (IMDG) : II - substances presenting medium danger

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

#### CANADA

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Listed on the Canadian DSL (Domestic Substances List) inventory.

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

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U.S. - California - Proposition 65 - Other information

DOES NOT CONTAIN CHEMICALS LISTED UNDER CALIFORNIA PROPOSITION 65

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

##### trichloroisocyanuric acid (87-90-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Revision date : 05/25/2021

Full text of H-phrases:

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS US Endura

*The information contained here has been compiled from sources considered by Endura Manufacturing Co. Ltd to be dependable and is accurate to the best of the Company's knowledge. However, neither Endura Manufacturing Co. Ltd or any of its subsidiaries assume any liability whatsoever for the accuracy of completeness of the information contained herein. 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. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.*