PRIME LOCK ADDITIVE

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 03/17/2017 Version: 1.1

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 - www.endura.ca

1.4. Emergency telephone number

Emergency number : In the event of an emergency involving dangerous goods:
in Canada call CANUTEC at 613-996-6666 or *666 on a cellular phone.
in the US call CHEMTREC at 800-424-9300 (Account Name for US is Polyglass Coatings)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Ox. Sol. 2	H272 -	May intensify fire; oxidizer
Acute Tox. 4 (Oral)	H302 -	Harmful if swallowed
STOT SE 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 GHS09

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H272 - May intensify fire; oxidizer
H302 - Harmful if swallowed
H335 - May cause respiratory irritation
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
Serious eye damage/eye irritation Category 2A

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
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 or a doctor if you feel unwell
P330 - Rinse mouth
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
P273 - Avoid release to the environment
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention
P370 - In case of fire: Use large quantity of water

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. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	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 or a doctor 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/injuries 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/injuries after skin contact : Causes skin irritation. Burns. Red skin. Swelling of the skin. ON CONTINUOUS EXPOSURE/CONTACT: Destruction of tissue.

Symptoms/injuries after eye contact : Causes serious eye irritation. Burns. Causes serious eye damage.

Symptoms/injuries 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.

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 : Mixture contains one or more component(s) which have the following colour(s):
White

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
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
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 eyes contact; Inhalation; Ingestion
Acute toxicity	: Oral: Harmful if swallowed.

PRIME LOCK ADDITIVE	
LD50 oral rat	490 mg/kg
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	490.000 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)	406.000 mg/kg body weight
ATE US (dermal)	20000.000 mg/kg body weight

Skin corrosion/irritation	:	Not classified pH: 2.7 - 2.9 1%
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/injuries 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/injuries after skin contact	:	Causes skin irritation. Burns. Red skin. Swelling of the skin. ON CONTINUOUS EXPOSURE/CONTACT: Destruction of tissue.
Symptoms/injuries after eye contact	:	Causes serious eye irritation. Burns. Causes serious eye damage.
Symptoms/injuries 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

PRIME LOCK ADDITIVE	
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)
Log Pow	0.9 (Calculated)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).

12.4. Mobility in soil

PRIME LOCK ADDITIVE	
Mobility in soil	Expected to be highly mobile in soil

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste 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.

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

Dangerous for the environment : Yes

Marine pollutant : Yes

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.

TDG

Transport document description	: UN2468 TRICHLOROISOCYANURIC ACID, DRY (TRICHLOROISOCYANURIC ACID, DRY), 5.1, II
UN-No. (TDG)	: UN2468
TDG Proper Shipping Name	: 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
Proper Shipping Name (IMDG)	: TRICHLOROISOCYANURIC ACID, DRY
Class (IMDG)	: 5.1 - Oxidizer
Packing group (IMDG)	: II - substances presenting medium danger

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

trichloroisocyanuric acid (87-90-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

PRIME LOCK ADDITIVE	
U.S. - California - Proposition 65 - Other information	DOES NOT CONTAIN CHEMICALS LISTED UNDER CALIFORNIA PROPOSITION 65

trichloroisocyanuric acid (87-90-1)
U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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.