CHINOOK 110

1. IDENTIFICATION

Product name : **CHINOOK 110**

Product code : **09-10171**

Other means of identification : Not available.

Supplier : Sani-Marc Inc.
42 rue de l'Artisan
Victoriaville, Qc
G6P 7E3
1-819-758-1541

Manufacturer : Sani-Marc Inc.
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Victoriaville, Qc
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Identified uses : Industrial applications: Antimicrobial agent Aide de procédé pour fruits et légumes
Approved for use in Food & Beverage plants.

Uses advised against : This product is formulated to be diluted. Do not use undiluted. Read product label before using.

Date of issue (YYYY-MM-DD) : **2021-01-04**

In case of emergency : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

2. HAZARDS IDENTIFICATION

Information in this section only concerns the product as supplied. Contact your account manager to get more information on diluted form hazards identification.

Product Classification : **ORGANIC PEROXIDES - Type F**
SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Health Hazards Not Otherwise Classified - Category 1

Signal word : **Danger**

Hazard pictograms :



Hazard statements : Heating may cause a fire.
Causes digestive tract burns.
Causes severe skin burns and eye damage.
May cause respiratory irritation.

Precautionary statements

General : Corrosive material. Handle with care. Read label before use. Keep out of reach of children.

Prevention : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original packaging. Keep cool. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling. Specific protective equipment is suggested for this product. See section 8 for details. Do not breathe dust or mist.

Response : IF INHALED: Move person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Rinse with water. IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. In any case of exposure, get medical attention if symptoms appear or are severe.

Storage : Protect from sunlight. Store separately. Store in well-ventilated place. Store away from combustibles. Avoid freezing. Store in an appropriate location.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 34%
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 34%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 34%

Other hazards which do not result in classification : None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Name	CAS number	% (w/w)
acetic acid	64-19-7	30 - 60
peracetic acid	79-21-0	10 - 30
hydrogen peroxide	7722-84-1	10 - 30

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of required first aid measures

Eye contact In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

Skin contact Rinse with water. Wash contaminated skin with soap and water. Remove contaminated clothing and wash it before reuse. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

Ingestion Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Get medical attention if symptoms occur.

Inhalation Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention. If necessary, call a poison center or physician. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Eye contact Adverse symptoms may include the following:
pain
watering
redness

Skin contact Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion Adverse symptoms may include the following:
stomach pains

Inhalation Adverse symptoms may include the following:
respiratory tract irritation
coughing

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical This material increases the risk of fire and may aid combustion. Heating may cause a fire. In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special fire-fighting procedures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Initiate spill response procedures if required.
Personal protection	Put on appropriate personal protective equipment (see Section 8).
Cleaning method	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.
Storage and Incompatibility	Store in accordance with local regulations. Separate from alkalis. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Prevent product contamination. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children. Store away from incompatible materials (see Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Ingredient name	Exposure limits
acetic acid	**CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 10 ppm 8 hours. 8 hrs OEL: 25 mg/m³ 8 hours. 15 min OEL: 37 mg/m³ 15 minutes. 15 min OEL: 15 ppm 15 minutes. **CA British Columbia Provincial (Canada, 6/2017).** TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. **CA Ontario Provincial (Canada, 7/2015).** TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 10 ppm 8 hours. TWAEV: 25 mg/m³ 8 hours. STEV: 15 ppm 15 minutes. STEV: 37 mg/m³ 15 minutes. **CA Saskatchewan Provincial (Canada, 7/2013).** STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.
peracetic acid	**ACGIH TLV (United States, 4/2014).** STEL: 0.4 ppm 15 minutes. Form: Inhalable fraction and Vapor **ACGIH TLV (United States, 3/2017).** STEL: 0.4 ppm 15 minutes. Form: Inhalable fraction and vapor
hydrogen peroxide	**CA Ontario Provincial (Canada, 1/2013).** TWA: 1.4 mg/m³ 8 hours. **CA Alberta Provincial (Canada, 4/2009).** 8 hrs OEL: 1 ppm 8 hours. 8 hrs OEL: 1.4 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 6/2017).** TWA: 1 ppm 8 hours. **CA Ontario Provincial (Canada, 7/2015).** TWA: 1 ppm 8 hours. **CA Quebec Provincial (Canada, 1/2014).** TWAEV: 1 ppm 8 hours. TWAEV: 1.4 mg/m³ 8 hours. **CA Saskatchewan Provincial (Canada, 7/2013).** STEL: 2 ppm 15 minutes. TWA: 1 ppm 8 hours.

Appropriate engineering controls	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Eye/face protection	Continued or severe exposures might required to wear a face shield or chemical splash goggles. It is minimally suggested to wear safety glasses while using or handling this product.
Hands and Body protection	It is suggested to wear chemical-reisitant gloves while using or handling this product. No special protective clothing is required.
Respiratory protection	Recommended: organic vapor filter (Type A)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid. [Limpid liquid]	**pH**	<1	**Flash point**	Closed cup: 80°C (176°F) [Product does not sustain combustion.]
Color	Colorless.	**Relative density**	1.11	**Melting point**	-49°C (-56.2°F)
Odor	Sharp. Vinegar-like	**Viscosity**	Not available.	**Boiling point**	109°C (228.2°F)
Odor threshold	Not available.	**Vapor pressure**	Not available.	**Fire point** :	Not available.
Solubility in water :	Not available.	**Vapor density** :	Not available.	**Evaporation rate** :	Not available.

Decomposition temperature :	55°C (131°F)	**Auto-ignition temperature** :	305°C (581°F)
Partition coefficient: n-octanol/ water :	Not available.	**Flammability (solid, gas)** :	Not available.

Lower and upper explosive (flammable) limits : Not available.

10. STABILITY AND REACTIVITY

Reactivity	This product, in laboratory testing, neither detonates in the cavitated state nor deflagrates and only shows a low or no effect when heated under confinement, as well as low or no explosive power.
Chemical stability	The product is stable.
Incompatible materials	Reactive or incompatible with the following materials: combustible materials reducing materials Reactive or incompatible with alkali. Chlorinated compouds
Conditions to avoid	Avoid increased storage temperature.
Possibility of hazardous reactions	May cause an exothermic reaction in presence of alkali. May intensify fire; oxidizer.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Route of exposure Routes of entry anticipated: Oral, Dermal, Inhalation.

	Potential acute health effects	Symptoms
Eye contact	May cause eye burn	Adverse symptoms may include the following: pain watering redness
Skin contact	May cause skin burns	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.	Adverse symptoms may include the following: stomach pains
Inhalation	May cause respiratory irritation. Inhalation of vapors or mist may cause respiratory tract irritation.	Adverse symptoms may include the following: respiratory tract irritation coughing

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
acetic acid	LC50 Inhalation Gas.	Mouse	5620 ppm	1 hours
	LC50 Inhalation Vapor	Rat	11000 mg/m³	4 hours
	LD50 Dermal	Rabbit	1.06 g/kg	-
	LD50 Oral	Rat	3310 mg/kg	-
peracetic acid	LC50 Inhalation Gas.	Rat	66 ppm	4 hours
	LC50 Inhalation Vapor	Rat	0.45 mg/l	4 hours
	LD50 Dermal	Rabbit	1410 mg/kg	-
	LD50 Oral	Rat	1540 mg/kg	-
hydrogen peroxide	LC50 Inhalation Vapor	Rat	2000 mg/m³	4 hours
	LD50 Dermal	Rabbit	4060 mg/kg	-
	LD50 Oral	Rat	2000 mg/kg	-

Information on toxicological effects

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects No known significant effects or critical hazards.

Sensitization Not available.

Carcinogenicity No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Ecotoxicity data

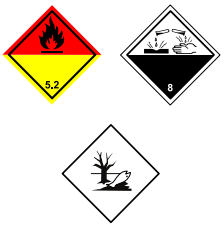
Product/ingredient name	Result	Species	Exposure
acetic acid	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 73900 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 85.8 ul/L Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 75000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 88000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
peracetic acid	Chronic NOEC 0.2 ppm Fresh water	Fish - Cyprinus carpio - Young	30 days
hydrogen peroxide	Acute EC50 1.2 mg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	Acute EC50 5.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2320 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 93 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 989.7 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days

Persistence and degradability : Unknown **Bioaccumulative potential** : Unknown **Mobility in soil** : Unknown **Other adverse effects** : Unknown

13. DISPOSAL CONSIDERATIONS

Disposal methods Dispose content and container in accordance with local, regional and national regulation in force.

14. TRANSPORT INFORMATION

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	TDG Placard
TDG Classification	UN3109	Organic peroxyde, type F liquid	5.2 (8)	II	

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.23-2.25 (Class 5), 2.40-2.42 (Class 8), 2.7 (Marine pollutant mark).
The marine pollutant mark is not required when transported by road or rail.

Additional information See shipping documents for specific information on DOT, IMDG or IATA

15. REGULATORY INFORMATION

Canadian lists

Canadian NPRI The following components are listed: Peracetic acid (and its salts)

CEPA Toxic substances None of the components are listed.

Canada inventory All components are listed or exempted.

International lists

United States All components are listed or exempted.

16. OTHER INFORMATION

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

Health Hazard	3
Fire Hazard	1
Reactivity	2
Personal Protection	H

Date of issue/Date of revision (YYYY-MM-DD) : 2021-01-04

Prepared by : **Regulatory Affairs Department**

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