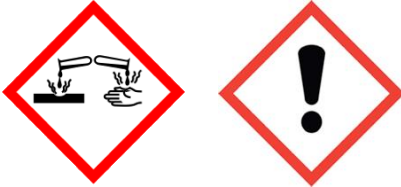



FIRST CHEMICAL LIMITED

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION	
Product Name	COMMERCIAL GUARDSMAN-12
Product UPC Recommended use of the chemical and restrictions on use	27909-03012
Product Code	03012
Manufacturer Address First Chemical Limited 83 Torbarrie Road Toronto, Ontario M3L 1G5	
Emergency Contact Number	416- 249- 8050 and 416- 678- 3179
Recommended Use	Disinfectant, surface cleaner, odour control, laundry water, sewage and industrial waste cleaner
Uses advised against	Do not mix with other chemicals

SECTION 2: HAZARD IDENTIFICATION	
GHS Classification	
Skin Irritation	Category 1 Sub-category B
Eye Irritation	Category 1
GHS Label Element	

<p>Hazard pictogram</p> <div style="text-align: center;">  </div> <p>Colour: Light Yellow Physical State: Liquid Odour: Chlorine Signal word: Warning</p>	
<p>Hazard Statements: Causes severe skin burns and serious eye damage.</p>	
<p><u>Precautionary Statements:</u></p>	
<p>Prevention:</p>	<p>Do not breathe mist, vapors or spray. Wash hands and any exposed skin thoroughly after handling. Wear protective gloves. Wear eye/face protection. Wear protective clothing.</p>
<p>Response:</p>	<p>IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN</p>
<p>Eyes</p>	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
<p>Skin</p>	<p>IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.</p>
<p>Inhalation:</p>	<p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p>
<p>Ingestion:</p>	<p>IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.</p>
<p>Specific Treatment:</p>	<p>See Safety Data Sheet Section4: "FIRST AID MEASURES" for additional information.</p>
<p>Storage:</p>	<p>Keep out of reach of children. Store in a well-ventilate place. Store in a close container. Protect from sunlight</p>
<p>Disposal:</p>	<p>Dispose of contents and container in accordance with local, state and federal regulations.</p>
<p>Hazards Not Otherwise Classified:</p>	<p>Not Applicable.</p>
<p>Other information:</p>	<p>Corrosive. Harmful or fatal if swallowed. Harmful contact may not cause immediate pain. Inhalation of vapors or mist may cause respiratory irritation/damage. Take off and destroy contaminated shoes. KEEP OUT OF REACH OF CHILDREN. Note to physician: Probable mucosal damage may contraindicate the use of gastric LAVAGE. .</p>

SECTION 3: INGREDIENTS

Chemical Name	Cas-No	Concentration: (%)
Water	7732-18-5	➤ 70%
Sodium hypochlorite	7681-52-9	< 15%

SECTION 4: FIRST AID MEASURES

In case of eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
In case of skin contact:	Wash off immediately with plenty of water for at least 15 minutes. Use mild soap if available. Get medical attention if irritation develops and persists
If swallowed:	Rinse mouth with water. Get medical attention if symptoms occur
If inhaled:	Remove to get fresh air. Get medical attention if symptoms occur.
Notes to physician:	Treat symptomatically
Most important symptoms/effects both acute and delayed	See Section 11 for more detailed information on health effects and symptoms

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media:	Water spray (fog), Carbon dioxide
Specific Hazards Arising from the chemical:	Combustion products are toxic. Releases oxygen when heated to decomposition which may intensify fire.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Special protective equipment for firefighters:	Wear MSHA/ NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire –exposed containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material,(sand ,earth, diatomaceous earth,) and place in container for disposal according to local/ national regulations (see Section 13)

SECTION 7: HANDLING AND STORAGE	
Advice on Safe Handling:	Avoid contact with skin and eyes. Wash hands thoroughly after handling. Mixing this product with acid or ammonia releases chlorine gas.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well – ventilated place. Keep out of the reach of children. Keep from freezing.
Incompatible Materials:	Acids. Strong oxidizing agents. Ammonia. Reactive metals such as aluminum, zinc and tin.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION	
Occupational Exposure Limits:	None established.
Engineering Controls:	If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered. Eye wash stations and shower facilities areas available
Personal Protective Equipment	
Eyes /Face Protection:	Wear splash goggles. For severe use –conditions, wear a face shield over the goggles.

Skin and Body Protection:	Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Liquid
Colour	Yellow Greenish
Odour	Chlorine Odor
PH	11.5- 13.8%
Flash point	>104 °C / > 219 F ASTM D56
Odour threshold	N/A
Melting/freezing point	N/A
Initial boiling point/boiling range	98 °C - 110 °C
Evaporation rate	N/A
Flammability (solid and gas)	N/A
Upper explosion limit	N/A
Lower explosion limit	N/A
Vapour pressure	N/A
Relative vapour density	N/A
Specific gravity	1.1- 1.2
Water solubility	Soluble in water
Solubility in other solvents	N/A
Partition coefficient: n- octanol/water	N/A
Auto-ignition temperature	N/A
Thermal decomposition	N/A
Viscosity kinematic	N/A
Explosive properties	N/A
Oxidizing properties	N/A
Molecular weight	N/A
VOC	N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	Contact with acids releases chlorine gas. Contact with ammonia releases chloramine gas. Contact with aluminum or other reactive metals may release hydrogen gas.
Conditions to avoid	Do not mix with other chemicals. High temperature accelerates decomposition of product.
Incompatible materials	Acids. Strong oxidizing agents. Ammonia. Reactive metals such as aluminum, zinc and tin.
Hazardous Decomposition Products	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors

SECTION 11: TOXICOLOGICAL INFORMATION

<u>Information on likely routes of exposure</u>	Eyes, Skin, Ingestion, Inhalation.
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system
Eye contact	Avoid contact with eyes. Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
Skin contact	Avoid contact with skin. Pain redness, blistering and possible chemical burn.
Ingestion	Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects Product information:	Data not available or insufficient for classification.
Numerical Measures of Toxicity	
The following acute toxicity estimate ATE mix (oral) 78098 mg/kg ATE mix (dermal) 95241 mg/kg	(ATE) are calculated based on the GHS document

Component Acute Toxicity inform.			
Chemical Name	Oral LD 50	Dermal LD 50	Inhalation LD 50
Water 7732-18-5	>90 ml/kg (Rat)	Not Available	Not Available
Sodium hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	>10000mg/kg (Rabbit)	Not Available
Carcinogenicity : No components present at 0.1% or greater are listed as to being carcinogens by ACGIH,IARC, NTP or OSHA.			

SECTION 12: ECOLOGICAL INFORMATION			
Eco toxicity			
Chemical Name Sodium hypochlorite 7681-52-9	Algae/aquatic plants 0.095: 24 h Skeletonema costatum mg/L	Fish 0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow- through 4.5 – 7.6: 96 h Pimephales promelas mg/L LC5 static 0.4 -0.8: 96h Lepomis macrochirus mg/L LC50 static 0.28 – 1: 96 h Lepomis Macrochirus mg/L LC50 flow-through 0.05 – 0.771: 96h Oncorhynchlu mykiss mg/L LC50 flow- through 0.03 -0.19: 96h Oncorhynchlu mykiss mg/L LC50 semi-static 0.18 – 0.22: 96h Oncorhynchlu mykiss mg/L LC50 static	Crustacean 0.033 – 0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50
<u>Persistence and degradability</u>	No information available		
<u>Bioaccumulation</u>	No information available		
<u>Other adverse effects</u>	No information available		

SECTION 13: DISPOSAL CONSIDERATIONS	
<u>Waste treatment methods</u>	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations
Contaminated packaging	Do not reuse container. Dispose of in accordance with federal, state and local regulations
US EPA Waste Number :	D002

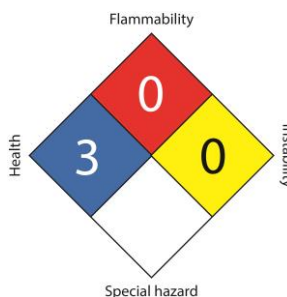
SECTION 14: TRANSPORT INFORMATION	
<u>DOT</u> UN / ID No.	UN 1791
<u>IATA</u> UN/ID no. Proper shipping name: Hazard Class Packing Group Descriptions	1791 Corrosive liquids n.o.s. (SODIUM HYPOCHLORITE) 8 III Shipping descriptions may vary based on mode of transport, quantities, package size, and/ or origin and destination.
<u>IMDG</u> UN/ ID NO. Proper shipping name Hazard class Packing Group	1791 Corrosive liquids n.o.s. (SODIUM HYPOCHLORITE) 8 III

SECTION 15: REGULATORY INFORMATION	
<u>International Inventories</u> TSCA DSL/NDSL	
<u>Legend:</u> TSCA- United States Toxic Substances Control Act Section 8(b) Inventory	

DSL/NDSL- Canadian Domestic Substances List/ Non- Domestic Substances lists	
<u>US Federal Regulations</u>	
<u>SARA 313</u> This product does not contain listed substances above the “de minimums” level	
<u>Sara 311/312 Hazard Categories</u>	
Acute health hazard	YES
Chronic Health Hazard	NO
Fire hazard	NO
Sudden release of pressure hazard	NO
Reactive hazard	NO
CWA (Clean Water Act) This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)	
<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals	

SECTION 16: OTHER INFORMATION								
NFPA	Health Hazards	3	Flammability	0	Instability	0	Special	N/A
HMIS	Health Hazards	3	Flammability	0	Physical Hazards	0		
Revision Date :			Dec 15 /2017					
Prepared by :			Regulatory Affairs					

Issuing Date: 12/15/2016
Prepared by: Regulatory Affairs



The information provided in this Safety Data Sheet is correct to 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.

End of Safety Data Sheet