

Safety Data Sheet (SDS)

Date: Nov. 27, 18


Product: Commander

Code: 1350 to 1359

1. Identification

PRODUCT NAME:	Commander	PRODUCT CODE:	1350 to 1359
USE:	Hard Surface Cleaner	RESTRICTIONS:	All other uses than those indicated on the product label and technical data sheet.
MANUFACTURER:	Allspar Solutions Inc. 150 Connie Crescent, Unit 12 Concord, ON L4K 1L9 (905) 760-1964	SUPPLIER:	BAY CITY SANITATION 189 Brock Street Barrie, ON. L4N 2M3 Phone: (705) 728-4332 Fax: (705) 728-4335
EMERGENCY TELEPHONE NUMBER: CANUTEC - (613) 996-6666			

2. Hazard Identification

HAZARD CLASSIFICATION:	GHS07
LABEL ELEMENTS:	
SYMBOL:	
SIGNAL WORD:	Warning
HAZARD STATEMENT:	H319 CAUSES EYE IRRITATION
PRECAUTIONARY STATEMENT:	P264 Wash thoroughly after handling. 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 attention. P501 Dispose of contents and container in accordance with local, regional and national regulations.
OTHER HAZARDS:	None.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	COMMON NAME	CAS REGISTRY	CONCENTRATION
Didecyldimethylammonium chloride	nav	7173-51-5	7 - 10 %
Alkyl(C12-C16)dimethylbenzylammonium Chloride	nav	68424-85-1	3 - 7 %
Tetrasodium ethylenediaminetetraacetate	nav	64-02-8	1 - 5 %

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Alcohols (C12-15) ethoxylate / Alcool (C12-15) éthoxylate	nav	68131-39-5	1 - 5 %
For production reasons a range is given. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section NOTE: Confidential business information rules can apply.			

4. FIRST-AID MEASURES

FIRST-AID MEASURES BY ROUTE OF EXPOSURE:

INHALATION:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.
SKIN CONTACT:	Remove immediately all contaminated clothing. Wash with soap and water and rinse thoroughly. If skin irritation or a rash occurs: Get medical advice/attention.
EYE CONTACT:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
INGESTION:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Get medical attention immediately. Call a poison center or physician.
MOST IMPORTANT SYMPTOMS AND EFFECTS (ACUTE OR DELAYED):	None known.
IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NECESSARY:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	CO2, sand, extinguishing powder for surrounding fire.
UNSUITABLE EXTINGUISHING MEDIA:	NAV
SPECIFIC HAZARDS ARISING FROM THE HAZARDOUS PRODUCT:	In case of accidental fire and extreme heat conditions, the following gaseous products can be released after water evaporation: hydrocarbons, carbon monoxides and dioxides (COx) and nitrogen dioxide (NOx).
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:	No special measures required
ADDITIONAL INFORMATION:	This product is not flammable

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Wear recommended protective equipment(s). Keep unprotected persons away.
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METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	<p>SMALL SPILL: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up. Alternatively absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.</p> <p>LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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). The spilled material may be neutralized vinegar or citric acid. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.</p>
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7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids and oxidizers. Empty containers retain product residue and can be hazardous. Do not reuse container.
CONDITIONS FOR SAFE STORAGE INCLUDING INCOMPATIBLE MATERIAL:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL PARAMETERS, INCLUDING OCCUPATIONAL EXPOSURE GUIDELINES OR BIOLOGICAL EXPOSURE LIMITS AND THE SOURCE OF THOSE VALUES:	
APPROPRIATE ENGINEERING CONTROLS:	Ensure appropriate aeration and ventilation.
INDIVIDUAL PROTECTION MEASURES (E.G. PERSONAL PROTECTIVE EQUIPMENT):	Avoid contact with the eyes and skin. Do not breathe dust, fume, gas, mist, vapours or spray. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Keep away from foodstuffs, beverages and feed. Breathing equipment: If airborne concentrations are above the permissible

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exposure limit or arc not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134). Advice should be sought from respiratory protection specialists

Protection of hands: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. Safety glasses with side-shields.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Recommended: safety apron

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Blue Liquid	PH	10.0 (+/- 0.5)
ODOUR	Citrus	ODOUR THRESHOLD	NAV
MELTING POINT	NAV	FREEZING POINT	~ 0°C
INITIAL BOILING POINT	~ 100°C	FLASH POINT	NAP
EVAPORATION RATE	NAV	FLAMMABILITY	NAP
LOWER FLAMMABLE LIMIT	NAP	UPPER FLAMMABLE LIMIT	NAP
VAPOUR PRESSURE	NAV	VAPOUR DENSITY	NAV
RELATIVE DENSITY	1.05	SOLUBILITY	Complete in water
PARTITION COEFFICIENT	NAV	AUTO-IGNITION TEMPERATURE	NAP
DECOMPOSITION TEMPERATURE	NAV	VISCOSITY	500 cps

10. STABILITY AND REACTIVITY

REACTIVITY:	No specific test data related to reactivity available for this product or its ingredients.
CHEMICAL STABILITY:	The product is stable.
POSSIBILITY OF HAZARDOUS REACTIONS:	Under normal conditions of storage and use, hazardous reactions will not occur.
CONDITIONS TO AVOID:	No specific data.
INCOMPATIBLE MATERIALS:	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: strong acids, oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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11. TOXICOLOGICAL INFORMATION

ROUTES OF ENTRY: Oral, Dermal, Inhalation.

Component	Value	
Didecyldimethylammonium chloride	LD50 (Oral)	430 mg/kg
	LD50 (Dermal)	3,560 mg/kg
	LC50 (Inhalation, 4 hr)	No information available / Aucune information de disponible
Alkyl(C12-C16)dimethylbenzylammonium Chloride	LD50 (Oral)	238 mg/kg (rat)
	LD50 (Dermal)	3,342 mg/kg (rat)
	LC50 (Inhalation, 4 hr)	No information available / Aucune information de disponible
Tetrasodium ethylenediaminetetraacetate	LD50 (Oral)	3,030 mg/kg (rat)
	LD50 (Dermal)	>5,000 mg/kg (rabbit)
	LC50 (Inhalation, 4 hr)	No information available / Aucune information de disponible
Alcohols (C12-15) ethoxylate / Alcool (C12-15) éthoxylate	LD50 (Oral)	>5,000 mg/kg (rat)
	LD50 (Dermal)	>5,000 mg/kg (rabbit)
	LC50 (Inhalation, 4 hr)	No information available / Aucune information de disponible

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

IF ON THE SKIN: CORROSIVE: Adverse symptoms may include the following: pain or irritation redness blistering may occur

IF ON THE EYE: CORROSIVE: Adverse symptoms may include the following: pain watering redness

AFTER INGESTION: CORROSIVE: Adverse symptoms may include the following: stomach pains

SENSITIZATION: No sensitizing effects known

DELAYED AND IMMEDIATE EFFECTS, AND CHRONIC EFFECTS FROM SHORT-TERM AND LONG-TERM EXPOSURE:

Prolonged or frequent contact can cause eczema and inflammation of the skins as a results of degreasing.

ADDITIONAL TOXICOLOGICAL INFORMATION: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

CARCINOGENIC CATEGORIES: None of the ingredients are listed

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

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.

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12. ECOLOGICAL INFORMATION

Chemical name / Nom du produit chimique	Means of exposure / Moyens d'expositions	Value / Valeur
Didecyldimethylammonium chloride	LC50 (Danio rerio, 96 hr)	0.97 mg/kg
	LC50 (Daphnia magna, 48 hr)	0.057 mg/kg
	NOEC (Daphnia magna, 21 d)	0.021 mg/kg
	EC50 (Algae, 72 hr)	0.062 mg/l
Alkyl(C12-C16)dimethylbenzyl-ammonium Chloride	LC50 (Lepomis macrochirus, 96 hr)	0.515 mg/l
	NOEL (Daphnia magna)	0.0042 mg/kg (rat)
Tetrasodium ethylenediaminetetraacetate	LC50 (Pimephales promelas, 96 hr)	>100 mg/l
	LC50 (Lepomis macrochirus, 96 hr)	157 – 2,070 mg/l
Alcohols (C12-15) ethoxylate / Alcool (C12-15) éthoxylate	EC50 (Algae, 72 hr)	10 – 100 mg/l
	EC50 (Daphnia magna, 48 hr)	5 – 10 mg/l
	LC50 (Fish, 96 hr)	5 – 10 mg/l

ECOTOXICITY	No further information available
PERSISTENCE AND DEGRADABILITY	Not available.
BIOACCUMULATIVE POTENTIAL	Not available.
MOBILITY IN SOIL	No further relevant information available.
OTHER ADVERSE EFFECTS	No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Recommendation: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Uncleaned packagings: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water.

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14. TRANSPORT INFORMATION

UN NUMBER	1760
UN PROPER SHIPPING NAME	CORROSIVE LIQUID N.O.S.
TRANSPORT HAZARD CLASS(ES)	8
PACKING GROUP	III
ENVIRONMENTAL HAZARDS	NAP
TRANSPORT IN BULK, IF APPLICABLE	NAV
SPECIAL PRECAUTIONS	NAV

15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT

United States inventory (TSCA 8b)	All components are listed or exempted.
WHMIS (Canada)	None specified.

16. OTHER INFORMATION

Date of latest revision:	Nov. 27, 18
To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Allspar Solutions Inc. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.	
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