

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product name ACTIUM
CAS # Mixture
Product use Floor care
Manufacturer information Canadian Mill Supply Co. Ltd.
120 McLevin Ave., Unit 2
Scarborough, ON M1B 3E9 CA
Phone: 1-416-752-3010
Emergency Phone: 1-613-996-6666 (CANUTEC)

2. Hazards Identification

Emergency overview CAUTION
MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes May cause irritation.

Skin May cause irritation.

Inhalation May cause respiratory tract irritation.

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Target organs Eyes. Respiratory system. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA regulatory status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Sodium dodecylbenzenesulfonate	25155-30-0	5 - 10
Sodium xylene sulphonate	1300-72-7	5 - 10
Alcohols, C9-11	66455-17-2	1 - 5
Sodium citrate	68-04-2	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician Symptoms may be delayed.

General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties	Not flammable by WHMIS/OSHA criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of carbon. Oxides of sulfur.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Should not be released into the environment. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills to original containers for re-use.

7. Handling and Storage

Handling	Use good industrial hygiene practices in handling this material. Avoid contact with eyes and skin. Wash thoroughly after handling.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls/Personal Protection

Exposure limits	Contains no substances with occupational exposure limit values.
Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Clear
Color	Green.
Form	Liquid
Odor	Citrus
Odor threshold	Not available.

Physical state	Liquid.
pH	4.8
Freezing point	Not available.
Boiling point	Not available
Pour point	Not available.
Evaporation rate	< 1 (Ether = 1)
Flash point	Not available.
Auto-ignition temperature	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	17 @ 20°C
Vapor density	Not available
Specific gravity	1.044 @21°C
Partition coefficient (n-octanol/water)	Not available
Solubility (water)	Complete
Relative density	Not available.
Viscosity	Slightly viscous
VOC	Not available
Percent volatile	82

10. Stability and Reactivity

Reactivity	This product may react with strong alkalies. This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Caustics. Strong oxidizing agents. Acids.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of sulfur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Alcohols, C9-11 (CAS 66455-17-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2960 mg/kg
<i>Oral</i>		
LD50	Rat	3000 mg/kg
Sodium citrate (CAS 68-04-2)		
Acute		
<i>Dermal</i>		
LD50	Rat	5000 mg/kg
<i>Oral</i>		
LD50	Rat	5000 mg/kg
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)		
Acute		
<i>Dermal</i>		
LD50	Rat	2700 mg/kg

Components	Species	Test Results
Oral LD50	Rat	438 mg/kg
Sodium xylene sulphonate (CAS 1300-72-7)		
Acute Oral LD50	Rat	7200 mg/kg
Effects of acute exposure		
Eye contact	May cause irritation.	
Skin contact	May cause irritation.	
Inhalation	May cause respiratory tract irritation.	
Ingestion	Harmful if swallowed. May cause stomach distress, nausea or vomiting.	
Sensitization	Non-hazardous by WHMIS/OSHA criteria.	
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.	
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.	
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.	
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.	
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.	
Name of Toxicologically Synergistic Products	Not available.	

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.		
Ecotoxicological data			
Components	Species		Test Results
Sodium citrate (CAS 68-04-2)			
Aquatic			
Crustacea	EC50	Daphnia	7800 mg/L, 48 Hours
		Water flea (Ceriodaphnia dubia)	655 - 825.9 mg/l, 48 hours
Sodium dodecylbenzenesulfonate (CAS 25155-30-0)			
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	3.3 - 14.5 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	3.2 - 5.6 mg/l, 96 hours
Persistence and degradability	Not available.		
Bioaccumulation / Accumulation	Not available		
Mobility in environmental media	Not available.		
Environmental effects	Harmful to aquatic life.		
Aquatic toxicity	Not available.		
Partition coefficient			
Sodium dodecylbenzenesulfonate		0.45	
Chemical fate information	Not available.		

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada WHMIS Ingredient Disclosure: Threshold limits

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) 1 %

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US federal regulations

All components are on the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

Sodium dodecylbenzenesulfonate: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Hazardous Substances (Director's): Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - Louisiana Spill Reporting: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - New Jersey RTK - Substances: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - New York Release Reporting: Hazardous Substances: Listed substance

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US - Texas Effects Screening Levels: Listed substance

Alcohols, C9-11 (CAS 66455-17-2) Listed.

Sodium citrate (CAS 68-04-2) Listed.

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

Sodium xylene sulphonate (CAS 1300-72-7) Listed.

US. Massachusetts RTK - Substance List

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US. Pennsylvania RTK - Hazardous Substances

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

US. Rhode Island RTK

Sodium dodecylbenzenesulfonate (CAS 25155-30-0) Listed.

Inventory status

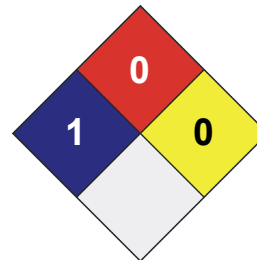
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by

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Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.