

Revision Date 08/28/2013  
Revision 4  
Supersedes Date 03/23/2012

## SAFETY DATA SHEET AXL - AXAREL 2200 NON AEROSOL

### 1. IDENTIFICATION

<b>Product Name</b>	AXL - AXAREL 2200 NON AEROSOL
<b>Product No.</b>	MCC-AXLL, MCC-AXLG, MCC-AXLP, MCC-AXLD
<b>Identified uses</b>	Cleaning agent.
<b>Emergency Telephone</b>	CHEMTREC (800) 424-9300

### 2. HAZARD(S) IDENTIFICATION

#### EMERGENCY OVERVIEW

Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint. Colourless liquid. Odor of alcohol. High vapor concentrations are irritating to the eyes, nose, throat, and lungs. Vapors are heavier than air and may spread near ground to sources of ignition. Keep out of the reach of children.

<b>Appearance</b>	Liquid
<b>Color</b>	Clear Colourless.
<b>Odor</b>	Odor of alcohol. Ester.
<b>GHS Pictogram</b>	



**Signal Word** Warning

**Hazard Statements**

H315	Causes skin irritation.
H319	Causes serious eye irritation.

**Precautionary Statements**

P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.

**GHS Classification**

Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2 - H315; Eye Irrit. 2 - H319
Environment	Not classified.

#### WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM - WHMIS

**WHMIS Label**



Materials Causing Other  
Toxic Effects.

**Controlled Product Classification**

Canadian WHMIS Classification WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information. Combustible Liquid. D2B

## AXL - AXAREL 2200 NON AEROSOL

### Inhalation

May cause irritation to the respiratory system. Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

### Ingestion

Ingestion may cause severe irritation of the mouth, the esophagus and the gastrointestinal tract. May cause nausea, headache, dizziness and intoxication. Unconsciousness.

### Skin Contact

Product has a defatting effect on skin. May cause skin irritation/eczema.

### Eye Contact

Irritating to eyes. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

### Target Organs

Eyes Skin Respiratory system, lungs

### Medical Symptoms

High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Skin irritation. Headache. Dizziness.

### Medical Considerations

Skin disorders and allergies.

### Other Health Effects

This substance has no evidence of carcinogenic properties.

### Physical And Chemical Hazards

The product is highly flammable, and explosive vapors/air mixtures may be formed even at normal room temperatures. Vapors are heavier than air and may travel along the floor and in the bottom of containers.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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1-propoxypropan-2-ol	30-60%
CAS No.: 1569-01-3	EC No.: 216-372-4
GHS Classification Skin Irrit. 2 - H315; Eye Irrit. 2 - H319	
MIXED ALIPAHTIC HYDROCARBONS	30-60%
CAS No.: 90622-57-4	EC No.:
GHS Classification Not classified.	

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### 4. FIRST-AID MEASURES

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#### Description of first aid measures

##### General Information

FLAMMABLE. CAUTION! First aid personnel must be aware of own risk during rescue! Move the exposed person to fresh air at once. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.

##### Inhalation

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

##### Ingestion

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Consult a physician for specific advice.

##### Skin Contact

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

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### Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### Most important symptoms and effects, both acute and delayed

#### General Information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

#### Inhalation

Vapors may cause drowsiness and dizziness. Headache. Irritation of nose, throat and airway.

#### Ingestion

Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.

#### Skin Contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. May cause skin irritation/eczema.

#### Eye Contact

May cause temporary eye irritation. Irritating and may cause redness and pain.

### Indication of any immediate medical attention and special treatment needed

#### Notes To The Physician

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

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## 5. FIRE-FIGHTING MEASURES

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Flammability Limit - Lower(%)	2.0
Flammability Limit - Upper(%)	12.7
Flash point (°C)	44 C / 111 F TCC (Tag closed cup).

#### Extinguishing Media

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Hazardous combustion products

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

#### Unusual Fire & Explosion Hazards

May form explosive mixture with air at very high concentration. May ignite other combustible materials.

#### Specific Hazards

Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember.

#### Special Fire Fighting Procedures

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapors.

#### Protective Equipment For Fire-Fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

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#### Personal Precautions

Use protective gloves, goggles and suitable protective clothing. Do not smoke, use open fire or other sources of ignition. Provide adequate ventilation.

#### Environmental Precautions

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

#### Spill Clean Up Methods

Warn everybody of potential hazards and evacuate if necessary. If leakage cannot be stopped, evacuate area. Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dam and absorb spillages with sand, earth or other non-combustible material. Collect in containers and seal securely.

#### Reference to other sections

For personal protection, see section 8. See section 11 for more detailed information on health effects and symptoms.

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## 7. HANDLING AND STORAGE

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#### Handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Keep out of the reach of children.

## AXL - AXAREL 2200 NON AEROSOL

### Storage

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Ground container and transfer equipment to eliminate static electric sparks.

### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Ingredient Comments

WEL = Workplace Exposure Limits

### Protective Equipment



### Engineering Measures

Provide adequate general and local exhaust ventilation.

### Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Occupational Exposure Limit

### Hand Protection

Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

### Eye Protection

Use eye protection. Wear approved, tight fitting safety glasses where splashing is probable.

### Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

### Hygiene Measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

### Skin Protection

Wear apron or protective clothing in case of splashes.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	Liquid
Color	Clear Colourless.
Odor	Odor of alcohol. Ester.
Solubility	Soluble in water.
Initial boiling point and boiling range	149-193 C / 300-380 F
Vapor density (air=1)	5.0
Vapor pressure	2.0 mm Hg 20 C / 68 F
Solubility Value (G/100G H <sub>2</sub> O@20°C)	60
Flash point	44 C / 111 F TCC (Tag closed cup).
Flammability Limit - Lower(%)	2.0
Flammability Limit - Upper(%)	12.7
Volatility Description	Volatile
Volatile By Vol. (%)	100
Volatile Organic Compound (VOC)	785 g/litre

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## 10. STABILITY AND REACTIVITY

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### Reactivity

No specific reactivity hazards associated with this product.

### Stability

Stable under normal temperature conditions.

## AXL - AXAREL 2200 NON AEROSOL

### Hazardous Polymerisation

Will not polymerise.

### Conditions To Avoid

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidizing agents. Strong alkalis. Strong mineral acids.

### Materials To Avoid

Strong oxidizing substances.

### Hazardous Decomposition Products

Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

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## 11. TOXICOLOGICAL INFORMATION

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### Toxic Dose 1 - LD 50

2800 mg/kg (oral rat)

### Other Health Effects

This substance has no evidence of carcinogenic properties.

#### Toxicological Information on Ingredients:

1-propoxypropan-2-ol (CAS: 1569-01-3)

### Toxic Dose 1 - LD 50

3550 mg/kg (oral-rbt)

MIXED ALIPAHTIC HYDROCARBONS (CAS: 90622-57-4)

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## 12. ECOLOGICAL INFORMATION

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### Degradability

There are no data on the degradability of this product.

### Bioaccumulative potential

No data available on bioaccumulation.

### Mobility:

The product is soluble in water.

### Other adverse effects

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

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## 13. DISPOSAL CONSIDERATIONS

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### Waste Management

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Waste is suitable for incineration. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

### Disposal Methods

Dispose of waste and residues in accordance with local authority requirements.

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## 14. TRANSPORT INFORMATION

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General	Requirements for marking and labeling of package varies depending on mode of transport. If uncertain of proper markings and labeling, call MicroCare for assistance.
Road Transport Notes	Exception Applies: LIQUID CLEANING COMPOUND N.O.S. NOT D.O.T REGULATED PER 49 CFR 173.150 (f)
UN No. (ICAO)	UN1993
DOT Proper Shipping Name	Flammable Liquid N.O.S. (1-propoxy-2-propanol and mixed aliphatic hydrocarbons)
TDG Proper Shipping Name	Flammable Liquid N.O.S. (1-propoxy-2-propanol and mixed aliphatic hydrocarbons)
ICAO Class	3 Flammable Liquid
Air Pack Group	III

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## 15. REGULATORY INFORMATION

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### Regulatory Status (US)

TSCA: The ingredients of this product are on the TSCA Inventory. SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

## AXL - AXAREL 2200 NON AEROSOL

**Regulatory References**

NFPA30 Flammable and Combustible Liquids Code. 29 CFR 1910.1010 Federal Regulations (OSHA Standard).

**US Federal Regulations**

**SARA (311/312) Hazard Categories**

Acute Chronic Fire

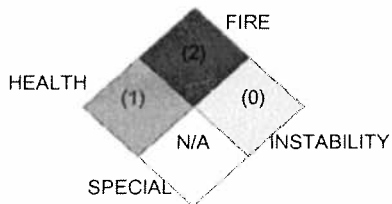
**US State Regulations**

**16. OTHER INFORMATION**

**HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)**

HEALTH	1
FLAMMABILITY	2
PHYSICAL	0
PERSONAL PROTECTION	A

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)**



**Revision Comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

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Revision	4
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Sds No.	BULK_AXL
Material Safety Data Sheet Status	Approved.
Date	28 August 2013

**Disclaimer**

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