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SAFETY DATA SHEET

Product Code: MC451N
Product Trade Name: Armaglaze 9000 Brilliant White
Product Class / Intended End Use: Commercial Coating
Emergency Telephone Numbers: For emergency health, safety and environmental information call 416-252-5676 (Monday to Friday 9am-4pm est/edt)

For Emergency Transportation Information call CANUTEC at 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

Classification:

	Category
Flammable Liquids and Vapour	3
Specific Target Organ Toxicity, Single Exposure – Narcotic Effects	3
Specific Target Organ Toxicity, Single Exposure - Respiratory	3
Skin Sensitivity	1A
Aquatic Acute	2
Aquatic Chronic	2
Signal word:	WARNING

Hazard Statements:

- Flammable liquid and vapour
- May cause drowsiness or dizziness
- May cause respiratory irritation
- May cause an allergic skin reaction
- Toxic to aquatic life with long lasting effects

Hazard Pictograms:



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Precautionary Statements:

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/Bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting/equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing mist or vapours.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/eye protection/face protection.
- Avoid release into the environment
- Contaminated clothing should not be allowed out of the workplace

Other Hazards Which do not Result in Classification:

- May be sensitive to static discharge.
- Burning produces obnoxious and toxic fumes.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
- May be an aspiration hazard.
- Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
- May cause skin and eye irritation.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS #	WT RANGE %
2-Methoxy-1-Methyl Ethyl Acetate	108-65-6	16.48
Butyl ethanoate	123-86-4	8.57
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2- yl)-5- (1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- .omega.-[3-[3-(2 H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1- oxopropoxy]-	104810-47-1	1.2
<i>N/A = Not Available N/E = Not Established</i>		

SECTION 4: FIRST-AID MEASURES

- Inhalation:** Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.
- Skin Contact:** Immediately remove contaminated clothing. Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
- Eye Contact:** For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

Call a poison centre or doctor/physician if you feel unwell.

Most Important Symptoms and Effects (both acute and delayed):

- May cause central nervous system effects.
- May cause headache, nausea, dizziness and other symptoms of central nervous system depression.
- May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.
- Direct contact with eyes may cause temporary irritation.
- Direct skin contact may cause temporary redness.
- Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard.
- Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Indication of any Immediate Medical Attention and Special Treatment Needed:

- This product is a CNS depressant. Treat symptomatically.

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SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Carbon dioxide (CO ₂): Dry Chemical; Alcohol resistant foam; Water fog.
Unsuitable Extinguishing Media:	Do not use a heavy water stream as it may scatter and spread fire.
Specific Hazards Arising from the Substance or Mixture:	Flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Static discharge, impact, friction, and heat may ignite exposed chemical material. Harmful vapours. Combustible liquid and vapour. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
Special Fire Fighting Procedures:	Firefighters should wear NFPA compliant protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control.
Unusual Fire/Explosion Hazards:	Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO ₂ formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Use personal protective equipment. If flammable, remove all sources of ignition (flames, sparks, etc.). Provide adequate ventilation. If necessary, evacuate personnel to safe area.
Environmental Precautions:	Try to prevent material from entering drains or water area.
Methods and Materials for Containment and Clean Up:	Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Wear protective gloves and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.
Conditions for Safe Storage:	Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.
Incompatibles:	Acids, strong oxidizers.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	ACGIH TLV (ppm)		OSHA Pel (ppm)	
	TWA	STEL	PEL	STEL
2-Methoxy-1-Methyl Ethyl Acetate	50	N/A	N/A	N/A
Butyl ethanoate	150	200	150	N/A
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2- yl)-5- (1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- .omega.-[3-[3-(2 H- benzotriazol-2-yl)-5-(1,1- dimethylethyl)-4-hydroxyphenyl]-1- oxopropoxy]-	N/A	N/A	N/A	N/A
N/A = Not Available N/E = Not Established				

Control Parameters:

No TLV data available on product.

Appropriate Engineering Controls:

Use only in well ventilated areas. Exhaust ventilation if used indoors on a continuous basis. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Personal Protective Equipment

Respiratory Protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapour cartridge and dust/mist filter.

Eye Protection:

Use safety glasses, goggles or full face shield where required.

Skin Protection:

Use chemically impervious nitrile or neoprene gloves. Wear long sleeved protective clothing. When required, wear impervious rubber apron. The selection of personal protective equipment and clothing varies, depending upon conditions of use.

SECTION 9: PHYSICAL PROPERTIES

% Volatiles by Weight:	25 - 26
Auto Ignition Temperature:	Data Not Available
Boiling Point:	146 °C / 294.8 °F
Decomposition Temperature:	Data Not Available
Density / Specific Gravity:	1.332
Explosive Limit:	Data Not Available
Flammability (solid, gas):	Flammable
Flash Point (Setaflash Closed Cup):	46°C / 114.8°F
Freezing Point:	Not Applicable
Melting Point:	Data Not Available
Odour Threshold:	Data Not Available
Odour:	Sharp Sweet
Partition Coefficient:	Data Not Available
pH:	Not Applicable
Physical State/Appearance:	Viscous White Liquid
Relative Evaporation Rate (Butylacetate=1)	Data Not Available
Solubility in Water:	None
Vapour Density:	Data Not Available
Vapour Pressure:	Data Not Available
Viscosity:	85,000 – 90,000 cps

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SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Avoid contact with incompatibles.
Chemical Stability:	Stable at normal condition of usage.
Possibility of Hazardous Reactions:	Will not occur under normal use.
Conditions to Avoid:	Avoid ignition sources, heat, sparks, open flame, direct sunlight and extremely high or low temperatures.
Incompatibles:	Acids, strong oxidizers. Materials reactive with hydroxyl bearing compounds. Strong bases.
Hazardous Decomposition Products:	None known, refer to hazardous combustion products in Section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

Name	LD 50			LC 50		
	mg/kg	Animal	Route	ppm	Animal	Route
2-Methoxy-1-Methyl Ethyl Acetate	6,190	Rat	Oral	>4345	Rat	Inhalation, 4h
	5,000	Rabbit	Dermal			
Butyl ethanoate	10,700	Rat	Oral	>6867	Rat	Inhalation, 4h
	>5,000	Rabbit	Dermal			
Poly(oxy-1,2-ethanediyl), .alpha.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]-.omega.-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-	>5,000	Rat	Oral	>5.8 mg/l	Rat	Inhalation, 4h
	>2,000	Rat	Dermal			

N/A = Not Available N/E = Not Established

Acute Toxicity:	No test data on mixture.
No Test Data for the Mixture On:	Skin corrosion/irritation, eye damage/irritation, skin sensitization, respiratory sensitization, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT-single exposure, STOT- repeated exposure, aspiration.
Likely Routes of Exposure:	Inhalation, eye contact, skin contact, ingestion.
Symptoms/Injuries after Inhalation:	May cause central nervous system effects. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause respiratory irritation. Symptoms may include sore throat, running nose and shortness of breath.
Symptoms/Injuries after Skin Contact:	Direct contact with skin can cause slight irritation.
Symptoms/Injuries after Eye Contact:	Direct eye contact may cause slight irritation.
Symptoms/Injuries after Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.
Potential Chronic Health Effects:	Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Harmful to aquatic life. Do not allow material to contaminate ground water system.
VOC (g/L):	334
Persistence and Degradability:	No test data on mixture.
Bio-accumulative Potential:	No test data on mixture.
Mobility in Soil:	No test data on mixture.
Other Adverse Effects:	None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

- Handling for Disposal:** Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.
- Methods of Disposal:** Dispose of in accordance with federal, provincial/state and local hazardous waste laws. Do not discharge into sewage or municipal water. Do not incinerate closed containers.
- RCRA:** If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

DO NOT INCINERATE CLOSED CONTAINERS.

SECTION 14: TRANSPORTATION INFORMATION

UN Number:	1263
UN Proper Shipping Name:	Paint
Transport Hazard Class:	3
Packing Group:	III
Environmental Hazards:	Information not available.
Special Precautions for User:	Appropriate advice on safety should accompany the package. Keep away from heat, sparks and open flame. Avoid static electricity.
Transport in Bulk:	Information not available.

SECTION 15: REGULATORY INFORMATION

- Canada:** All components are in compliance with the Canadian environmental protection act and are present on the domestic substances list. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.
- USA:**
- TSCA:** All components of this material are on the US TSCA inventory or are exempt.
 - OSHA:** This material is classified as hazardous under OSHA regulation (29CFR 1910.1200).
 - CERCLA:** Reportable quantities (RQ) (40 CFR 117.302). Data not available.
 - SARA TITLE 111:** Sec 302, extremely hazardous substances, 40 CFR 355 - Data not available
 - SARA TITLE 111:** Sec 313, toxic chemical notification, 40 CFR 372 - Data not available

SECTION 16: OTHER INFORMATION

HMIS:	Health 1	Flammability 2	Physical hazard 0
NFPA:	Health 1	Flammability 2	Reactive Instability 1

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DISCLAIMER

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END OF SAFETY DATA SHEET