



**ALUMANATION 301 55 GL DR**

Version 2.  
 REVISION DATE: 06/29/2009

Print Date 07/07/2009

**SECTION 1 - PRODUCT IDENTIFICATION**

Trade name : ALUMANATION 301 55 GL DR  
 Product code : 301550

COMPANY : Republic Powdered Metals  
 2628 Pearl Road  
 Medina, OH 44256

Telephone : (800) 551-7081  
 Emergency Phone: : 1-800-551-7081  
 After Hours: Chemtrec 1-800-424-9300

**SECTION 2 - HAZARDS IDENTIFICATION**

**Emergency Overview**

Aluminum. Liquid. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

**Acute Potential Health Effects/ Routes of Entry**

Inhalation : May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system.

Eyes : Direct contact may cause moderate irritation. Direct contact may cause temporary redness and discomfort.

Ingestion : May cause gastrointestinal irritation, nausea, and vomiting.

Skin : May cause moderate irritation. May cause itching, reddening, inflammation. May cause a rash. May cause sensitization.

**Aggravated Medical Conditions**

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

**Chronic Health Effects**

Prolonged or repeated skin contact with asphalt may result in skin sensitivity, such as irritation, rashes, and dermatitis. Prolonged or repeated exposure to polycyclic aromatic hydrocarbons and other volatiles which are contained in trace amounts in asphalt have been shown to cause cancer or respiratory damage in animals. Fillers are encapsulated and not expected to be released from product under normal conditions of use. Prolonged or repeated exposure to mineral spirits (petroleum naphtha or stoddard solvent) may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, and adverse liver, kidney, and lung effects.

**Target Organs:** Skin, Eye, Lung, Liver, Kidney, Nerve

**SECTION 3 - PRODUCT COMPOSITION**

Chemical Name	CAS-No.	Weight %
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Asphalt	8052-42-4	30.0 - 60.0
Stoddard solvent (Mineral Spirits)	8052-41-3	30.0 - 60.0
Aluminum	7429-90-5	15.0 - 40.0
Aliphatic naphtha	64742-88-7	5.0 - 10.0
Calcium carbonate	471-34-1	5.0 - 10.0
Inert Filler	NJTSRN# 51721300-5134P	1.0 - 5.0
Inert Filler	NJTSRN# 51721300-5013P	1.0 - 5.0
Amorphous silica	7631-86-9	1.0 - 5.0

**SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

- Inhalation : Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
- Eye contact : Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
- Skin contact : Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
- Ingestion : Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

**SECTION 5 - FIRE FIGHTING MEASURES**

- Flash point : 105 F, 41 C
- Method : Tag Closed Cup
- Lower explosion limit : 0.90 %(V) Solvent
- Upper explosion limit : 7 %(V) Solvent
- Autoignition temperature : Not available.
- Extinguishing media : If water fog is ineffective, use carbon dioxide, dry chemical or foam.
- Hazardous combustion products : Smoke, fumes. Carbon monoxide and carbon dioxide can form. Oxides of sulfur can form.
- Protective equipment for firefighters : Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).
- Fire and explosion conditions : Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flashback. Vapor concentrations in enclosed areas may ignite explosively. Empty containers may contain ignitable vapors.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.



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**SECTION 7 - HANDLING AND STORAGE**

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal protection equipment**

- Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.
- Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.
- Eye protection : Wear appropriate eye protection. Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.
- Skin and body protection : Prevent contact with shoes and clothing.
- Protective measures : Use professional judgment in the selection, care, and use. Inspect and replace equipment at regular intervals.
- Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas. Use local exhaust when the general ventilation is inadequate.

**Exposure Limits**

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>
Asphalt	8052-42-4	ACGIH TWA: benzene solubles	0.5 mg/m3	Inhalable fraction.as
Stoddard solvent (Mineral Spirits)	8052-41-3	ACGIH TWA: OSHA PEL:	100 ppm 2,900 mg/m3	
Aluminum	7429-90-5	OSHA PEL: OSHA PEL: Al OSHA TWA: OSHA TWA: ACGIH TWA:	15 mg/m3 5 mg/m3  15 mg/m3 5 mg/m3 1 mg/m3	Total dust.as Al Respirable dust.as Al  Total dust. Respirable fraction. Respirable fraction.

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<b>Chemical Name</b>	<b>CAS Number</b>	<b>Regulation</b>	<b>Limit</b>	<b>Form</b>
Calcium carbonate	471-34-1	OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction.
Inert Filler	51721300-5134P			
Inert Filler	51721300-5013P	ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA: OSHA TWA:	10 mg/m3 5 mg/m3 15 mg/m3 15 mg/m3 5 mg/m3	Respirable fraction. Total dust. Total dust. Respirable fraction.
Amorphous silica	7631-86-9	ACGIH TWA: ACGIH TWA: OSHA PEL: OSHA PEL: OSHA TWA:	3 mg/m3 10 mg/m3 15 mg/m3 5 mg/m3 0.8 mg/m3	Respirable particles. Inhalable particles. Total dust. Respirable fraction.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Form	: Liquid
Color	: Aluminum
Odor	: Petroleum
pH	: Not available.
Vapour pressure	: Not available.
Vapor density	: Heavier than air
Melting point/range	: Not available.
Freezing point	: Not available.
Boiling point/range	: 311 °F, 155 °C
Water solubility	: Negligible
Specific Gravity	: 1.06
% Volatile Weight	: 38 %

**SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid	: Oxidizing agents.
Stability	: Material is stable under normal storage, handling, and use.
Hazardous polymerization	: Will not occur under normal conditions.



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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Calcium carbonate, CAS-No.: 471-34-1  
Acute oral toxicity (LD-50 oral) 6,450 mg/kg ( Rat )

Amorphous silica, CAS-No.: 7631-86-9  
Acute oral toxicity (LD-50 oral) 22,500 mg/kg ( Rat ) 15,000 mg/kg ( Mouse )

**SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

RCRA Class : D001: Reportable Quantity = 100 lbs. (Characteristic of ignitability)  
This classification applies only to the material as it was originally produced.

Disposal Method : Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in compliance with federal, state and local regulations.

**SECTION 14 - TRANSPORTATION / SHIPPING DATA**

**TDG / DOT Shipping Description:**  
NOT REGULATED

**SECTION 15 - REGULATORY INFORMATION**

**North American Inventories:**  
All components are listed or exempt from the TSCA inventory.  
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

**U.S. Federal Regulations:**

SARA 313 Components : Aluminum 7429-90-5

SARA 311/312 Hazards : Acute Health Hazard  
Fire Hazard

OSHA Hazardous Components :

Asphalt 8052-42-4  
Stoddard solvent (Mineral Spirits) 8052-41-3  
Aluminum 7429-90-5



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Calcium carbonate	471-34-1
Inert Filler	NJTSRN# 51721300-5134P
Inert Filler	NJTSRN# 51721300-5013P
Amorphous silica	7631-86-9

OSHA Status: Considered : Irritant  
hazardous based on the following criteria:

OSHA Flammability : II

Regulatory VOC (less water and exempt solvent) : 409 g/l

VOC Method 310 : 38 %

**U.S. State Regulations:**

MASS RTK Components	:	Asphalt	8052-42-4
		Stoddard solvent (Mineral Spirits)	8052-41-3
		Aluminum	7429-90-5
		Calcium carbonate	471-34-1
		Inert Filler	NJTSRN# 51721300-5134P
		Inert Filler	NJTSRN# 51721300-5013P
		Amorphous silica	7631-86-9

Penn RTK Components	:	Asphalt	8052-42-4
		Stoddard solvent (Mineral Spirits)	8052-41-3
		Aluminum	7429-90-5
		Aliphatic naphtha	64742-88-7
		Calcium carbonate	471-34-1
		Inert Filler	NJTSRN# 51721300-5134P
		Inert Filler	NJTSRN# 51721300-5013P
		Amorphous silica	7631-86-9

NJ RTK Components	:	Asphalt	8052-42-4
		Stoddard solvent (Mineral Spirits)	8052-41-3
		Aluminum	7429-90-5
		Aliphatic naphtha	64742-88-7
		Calcium carbonate	471-34-1

WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm:

8052-42-4	Asphalt
14808-60-7	Crystalline Silica (Quartz)/ Silica Sand



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**SECTION 16 - OTHER INFORMATION**

**HMIS Rating :**

Health	2
Flammability	2
Reactivity	1
PPE	

0 = Minimum  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Severe

**Further information:**

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

**Prepared by: Rich Mikol**

**Legend**

ACGIH - American Conference of Governmental Hygienists  
NTP - National Toxicology Program  
DOT - Department of Transportation  
DSL - Domestic Substance List  
EPA - Environmental Protection Agency  
HMIS - Hazardous Materials Information System  
IARC - International Agency for Research on Cancer  
MSHA - Mine Safety Health Administration  
NDSL - Non-Domestic Substance List  
NIOSH - National Institute for Occupational Safety and Health  
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act  
OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit  
RCRA - Resource Conservation and Recovery Act  
RTK - Right To Know  
SARA - Superfund Amendments and Reauthorization Act  
STEL - Short Term Exposure Limit  
TLV - Threshold Limit Value  
TSCA - Toxic Substances Control Act  
TWA - Time Weighted Average  
V - Volume  
VOC - Volatile Organic Compound  
WHMIS - Workplace Hazardous Materials Information System

