# Safety Data Sheet BRILLIANCE AEROSOL, MM

**Supercedes Date** Not applicable **Issuing Date** 12/30/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** BRILLIANCE AEROSOL, MM
**Recommended use** Cleaning agent
**Information on Manufacturer**
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

**Product Code** 5196
**Chemical nature** Aqueous solution
**Emergency Telephone Number**
CHEMTREC® 800-424-9300
**Telephone inquiry**
972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Colorless to Light yellow **Physical state** Gas **Odor** Ammoniacal

**GHS**
**Classification**
*Physical Hazards*

| | |
|---|---|
| Gases under pressure | Compressed Gas |

*Health Hazard*

| | |
|---|---|
| Reproductive Toxicity | Category 2 |
| Specific target organ systemic toxicity (single exposure) | Category 1 |

*Other hazards*
None

**Labeling**
*Signal Word*
**DANGER**

*Hazard statements*
H370 - Causes damage to organs
H361 - Suspected of damaging fertility or the unborn child
H280 - Contains gas under pressure; may explode if heated

*Precautionary Statements*
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe vapors, mist or gas
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product.
P308 + P313 - IF exposed or concerned, get medical attention
P251 - Pressurized container: Do not pierce or burn, even after use
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P410 + P403 - Protect from sunlight. Store in a well-ventilated place
P501 - Dispose of contents and container in accordance with applicable local regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS No. | Weight % * |
|---|---|---|
| Petroleum gases, liquified, sweetened | 68476-86-8 | 1-5 |
| Methyl alcohol | 67-56-1 | 1-5 |
| Propylene glycol monomethyl ether | 107-98-2 | 0.1-1 |
| AMMONIA SOLUTION | 1336-21-6 | 0.1-1 |
| Ethyl alcohol | 64-17-5 | 0.1-1 |

*The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**General advice** Avoid contact with skin, eyes and clothing. Do not breathe vapors, mist or gas.
**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.
**Skin Contact** Wash affected areas with plenty of soap and water for several minutes. Seek medical attention if irritation develops.
**Inhalation** If inhaled, remove to fresh air. Get medical attention if symptoms occur.
**Ingestion** Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately.
**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Flash Point** Does not flash **Method** No data available
**Flammability Limits in Air %:** Mixture. **Upper:** 36 **Lower:** 1.9
**Suitable Extinguishing Media**
Foam. Dry chemical. Carbon dioxide (CO2). Water spray. Dry sand. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
**Specific hazards arising from the chemical**
Flame extension: 0 inches / 0 cm and Burnback: 0 inch / 0 cm. Material can create slippery conditions.
**Protective Equipment and Precautions for Firefighters**
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.

| | | | |
|---|---|---|---|
| **Aerosol Level (NFPA 30B) -** | 1 | | |
| **NFPA** | **Health** 2 | **Flammability** 4 | **Instability** 0 |
| **HMIS** | **Health** 2 | **Flammability** 4 | **Instability** 0 |

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions** Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions.
**Environmental Precautions** Do not flush into surface water or sanitary sewer system.
**Methods for Containment** Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
**Methods for Cleaning Up** Pick up and transfer to properly labeled containers.
**Neutralizing Agent** Not applicable.

## 7. HANDLING AND STORAGE

**Handling** Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Keep away from open flames, hot surfaces and sources of ignition.
**Storage** Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

| | | | | | |
|---|---|---|---|---|---|
| **Storage Temperature** | **Minimum** | No information available | | **Maximum** | No information available |
| **Storage Conditions** | **Indoor** | X | **Outdoor** | **Heated** | **Refrigerated** |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines**

| Component | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Methyl alcohol | TWA: 200 ppm<br>Skin<br>STEL: 250 ppm | TWA: 200 ppm<br>TWA: 260 mg/m$^3$ | 6000 ppm<br>STEL 250 ppm<br>STEL 325 mg/m$^3$<br>TWA: 200 ppm<br>TWA: 260 mg/m$^3$ |
| Propylene glycol monomethyl ether | TWA: 50 ppm<br>STEL: 100 ppm | No data available | STEL 150 ppm<br>STEL 540 mg/m$^3$<br>TWA: 100 ppm<br>TWA: 360 mg/m$^3$ |
| Ethyl alcohol | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$ | 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$ |

**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
**Personal Protective Equipment**
**Eye/Face Protection** Safety glasses with side-shields.
**Skin Protection** Wear suitable protective clothing, Impervious gloves.
**Respiratory Protection** In case of inadequate ventilation wear respiratory protection. When workers are facing

concentrations above the exposure limit they must use appropriate certified respirators.

**General Hygiene Considerations** Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| **Physical state** | Gas | **Viscosity** | Not applicable |
| **Color** | Colorless to Light yellow | **Odor** | Ammoniacal |
| **Odor Threshold** | Not applicable | **Appearance** | Liquid |
| **pH** | Not applicable | **Specific Gravity** | 0.995 |
| **Evaporation Rate** | No data available | **Percent Volatile (Volume)** | No data available |
| **VOC Content (%)** | 9.4 | **VOC Content (g/L)** | 93.53 |
| **Vapor Pressure** | No data available | **Vapor Density** | No information available |
| **Solubility** | Soluble in water | **n-Octanol/Water Partition** | No data available |
| **Melting Point/Range** | No data available | **Decomposition Temperature** | No data available |
| **Boiling Point/Range** | > 212 °F / 100 °C | **Flammability (solid, gas)** | No data available |
| **Flash Point** | Does not flash | **Method** | No data available |
| **Autoignition Temperature** | No information available. | | |
| **Flammability Limits in Air %:** | Mixture | **Upper:** 36 **Lower:** 1.9 | |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Chemical Stability** | No information available. |
| **Conditions to Avoid** | Extremes of temperature and direct sunlight. |
| **Incompatible Products** | Strong acids, Strong bases. |
| **Decomposition Temperature** | No data available |
| **Hazardous Decomposition Products** | Carbon monoxide, Carbon dioxide ($CO_2$), Fumes. |
| **Possibility of Hazardous Reactions** | None under normal processing. |

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

**The following values are calculated based on chapter 3.1 of the GHS document**

| | |
|---|---|
| **Oral LD50** | 91,755.37 |
| **Dermal LD50** | 267,167.61 |
| **Inhalation LC50** | |
| **Gas** | 1,386.94 |
| **Mist** | No information available |
| **Vapor** | 1,386.94 |

| | |
|---|---|
| **Principle Route of Exposure** | Skin contact, Eye contact, Inhalation. |
| **Primary Routes of Entry** | Skin contact. |
| **Acute Effects:** | |
| **Eyes** | May cause slight irritation. |
| **Skin** | May cause slight irritation. |
| **Inhalation** | May cause irritation of respiratory tract. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. |
| **Ingestion** | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |
| **Chronic Toxicity** | Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Suspect reproductive hazard - contains material which may injure unborn child. |
| **Target Organ Effects** | Central nervous system, Respiratory system, Skin, Gastrointestinal tract. |
| **Aggravated Medical Conditions** | Neurological disorders, Respiratory disorders, Skin disorders. |

Component Information

**Acute Toxicity**

| Component | Oral LD50 | Dermal LD50 | Inhalation LC50 | Draize Test | Other |
|---|---|---|---|---|---|
| Methyl alcohol 67-56-1 | = 5628 mg/kg ( Rat ) | no data available | = 22500 ppm ( Rat ) 8 h = 64000 ppm ( Rat ) 4 h | no data available | no data available |
| Propylene glycol monomethyl ether 107-98-2 | = 5000 mg/kg ( Rat ) | = 13 g/kg ( Rabbit ) | > 6 mg/L ( Rat ) 4 h | no data available | no data available |
| AMMONIA SOLUTION 1336-21-6 | = 350 mg/kg ( Rat ) | no data available | no data available | no data available | no data available |
| Ethyl alcohol 64-17-5 | no data available | no data available | = 124.7 mg/L ( Rat ) 4 h | no data available | no data available |

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|---|---|---|---|---|---|
| Methyl alcohol | no data available | no data available | x | no data available | Gastrointestinal tract Skin Central |

| | | | | | |
|---|---|---|---|---|---|
| 67-56-1 | | | | | nervous system Eyes Respiratory system |
| Propylene glycol monomethyl ether 107-98-2 | no data available | no data available | X | no data available | Skin Central nervous system Eyes Respiratory system |
| Ethyl alcohol 64-17-5 | no data available | no data available | yes | no data available | Blood Skin Central nervous system Eyes Respiratory system Reproductive System Liver |

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | ACGIH | IARC | NTP | OSHA | Other |
|---|---|---|---|---|---|
| Ethyl alcohol 64-17-5 | not applicable | not applicable | not applicable | X | not applicable |

(1) IARC classification for Ethyl alcohol is intended for use in alcoholic beverage use only. This product is not intended for this use.

## 12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

| Component | Toxicity to Algae | Toxicity to Fish | Microtox | Crustacea | log Pow |
|---|---|---|---|---|---|
| Petroleum gases, liquified, sweetened | No information available. | No information available. | No information available | No information available. | 2.8 |
| Methyl alcohol | No information available. | LC50 = 28200 mg/L Pimephales promelas 96 h<br>LC50 > 100 mg/L Pimephales promelas 96 h<br>LC50 19500 - 20700 mg/L Oncorhynchus mykiss 96 h<br>LC50 18 - 20 mL/L Oncorhynchus mykiss 96 h<br>LC50 13500 - 17600 mg/L Lepomis macrochirus 96 h | EC50 = 39000 mg/L 25 min<br>EC50 = 40000 mg/L 15 min<br>EC50 = 43000 mg/L 5 min | No information available. | -0.77 |
| Propylene glycol monomethyl ether | No information available. | LC50 = 20.8 g/L Pimephales promelas 96 h | No information available | 23300: 48 h Daphnia magna mg/L EC50 | -0.437 |
| AMMONIA SOLUTION | No information available. | LC50 = 8.2 mg/L Pimephales promelas 96 h | No information available | 0.66: 48 h water flea mg/L EC50<br>0.66: 48 h Daphnia pulex mg/L EC50 | N/A |
| Ethyl alcohol | No information available. | LC50 12.0 - 16.0 mL/L Oncorhynchus mykiss 96 h<br>LC50 > 100 mg/L Pimephales promelas 96 h<br>LC50 13400 - 15100 mg/L Pimephales promelas 96 h | EC50 = 34634 mg/L 30 min<br>EC50 = 35470 mg/L 5 min | 9268 - 14221: 48 h Daphnia magna mg/L LC50<br>2: 48 h Daphnia magna mg/L EC50 Static | -0.32 |

**Persistence and Degradability** No information available.
**Bioaccumulation** No information available.
**Mobility** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Product Disposal** Dispose of in accordance with local regulations.
**Container Disposal** Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

## 14. TRANSPORT INFORMATION

**DOT**
**Proper Shipping Name** CONSUMER COMMODITY
**Hazard Class** ORM-D
**Description** CONSUMER COMMODITY ORM-D

**TDG**
**Proper shipping name** AEROSOLS
**Hazard Class** 2.2
**UN-No** UN1950
**Description** AEROSOLS,2.2,UN1950, LTD QTY

**ICAO**
**UN-No** UN1950
**Proper Shipping Name** AEROSOLS

**Hazard Class** 2.2
**Shipping Description** AEROSOLS,2.2,UN1950, LTD QTY

**IATA**
**UN-No** UN1950
**Proper Shipping Name** AEROSOLS
**Hazard Class** 2.2
**ERG-Code** 2L
**Shipping Description** AEROSOLS,2.2,UN1950, LTD QTY

**IMDG/IMO**
**Proper Shipping Name** AEROSOLS
**Hazard Class** 2.2
**UN-No** UN1950
**EmS No.** F-D, S-U
**Description** UN1950, Aerosols,2.2, LTD QTY

## 15. REGULATORY INFORMATION

**Inventories**
**TSCA** Complies
**DSL** Complies
**U.S. Federal Regulations**

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Component | CAS No. | Weight % * | SARA 313 - Threshold Values |
|---|---|---|---|
| Methyl alcohol | 67-56-1 | 1-5 | 1.0 |
| AMMONIA SOLUTION | 1336-21-6 | 0.1-1 | 1.0 |

**SARA 311/312 Hazardous Categorization**

| Acute Health Hazard | Chronic Health Hazard | Fire Hazard | Sudden Release of Pressure Hazard | Reactive Hazard |
|---|---|---|---|---|
| Yes | Yes | No | Yes | No |

**CERCLA**

| Component | Hazardous Substances RQs | CERCLA EHS RQs |
|---|---|---|
| Methyl alcohol | 5000 lb | Not applicable |
| AMMONIA SOLUTION | 1000 lb | Not applicable |

## 16. OTHER INFORMATION

**Prepared By** Laura Strauss
**Supercedes Date** Not applicable
**Issuing Date** 12/30/2015
**Reason for Revision** No information available.
**Glossary** No information available.
**List of References.** No information available.

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