SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier
AccuCLEAN 50, Blend #4, AP111, AP112, AP904

GHS Product Identifier
AccuCLEAN 50, Blend #4, AP111, AP112, AP904

Chemical Name
Sodium Bicarbonate (baking soda)

Trade Name
AccuCLEAN 50

CAS No.
144-55-8

EC No.
205-663-8

Reach Registration No.
Not available

1.2 Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against
Identified Use(s)
Consult the supplier.

Uses Advised Against
Users are recommended to seek further advice.

1.3 Details Of The Supplier Of The Safety Data Sheet
Company Identification
Airbrasive Jet Technologies, LLC.

Address
151 Old New Brunswick Road
Piscataway, NJ 08854

Telephone
732-529-6225

E-Mail (Competent Person)
support@airbrasive.com

1.4 Emergency Telephone Number – CHEMTREC
800-424-9300 (USA/Canada), 703-527-3887 (International)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture
2.1.1 Regulation (EC) No. 1272/2008 (CLP) – None


2.2 Label Elements

2.2.1 Label Elements According to Regulation (EC) No. 1272/2008 (CLP)

GHS Product Identifier (EU)
None

Signal Word(s)
None

Hazard Statement(s)
None

Precautionary Statement(s)
None


Hazard Symbols
None

Risk Phrases
None

Safety Phrases
None

2.3 Other Hazards GHS Classification (USA):

Not Hazardous under OSHA Hazard Communication Standard

HMIS: Health – 0, Flammability – 0, Reactivity – 0

Hazard Statement(s)
None

Precautionary Statement(s)
None

WHMIS/GHS Classification (Canada): Non-Hazardous under WHMIS.

D2B – Material Causing Other Toxic Effects (Irritation)

Hazard Statement(s)
None

Precautionary Statement(s)
None

2.4 Additional Information
See Section 16 for additional dust hazard information.

Potential Health Effects

Inhalation
Possible irritation of the respiratory tract (Dust).

Skin Contact
Mechanical irritation.

Eye Contact
Mechanical irritation, corneal scratches.

Ingestion
Mechanical and chemical irritant
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EC Classification No. 1272/2008/EC and GHS Classification

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>Hazard Pictogram(s) and Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>&gt;99</td>
<td>144-55-8</td>
<td>205-633-8</td>
<td>NA</td>
<td>None</td>
</tr>
</tbody>
</table>

Impurities: Ammonia + Arsenic + Heavy metals + Carbonate + Chloride + Sulfur compounds + Organic volatile impurities = <1.0%

EC Classification No. 67/548/EEC

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>%W/W</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>REACH Registration No.</th>
<th>Hazard Pictogram(s) and Risk (R) Phras(es)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>&gt;99</td>
<td>144-55-8</td>
<td>205-633-8</td>
<td>NA</td>
<td>None</td>
</tr>
</tbody>
</table>

Impurities: Ammonia + Arsenic + Heavy metals + Carbonate + Chloride + Sulfur compounds + Organic volatile impurities = <1.0%

3.3 Additional Information - For full text of H phrases see section 16. For full text of R phrases see section 16. Non-Hazardous ingredients are not listed and make up the balance of the product.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures

- **Inhalation**: Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.
- **Skin Contact**: Remove contaminated clothing immediately and drench affected skin with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.
- **Eye Contact**: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes. Obtain immediate medical attention.
- **Ingestion**: Avoid ingestion. Do not induce vomiting. Get immediate medical attention.

4.2 Most Important Acute: None known

Delayed and Chronic Effects: None known

4.3 Indication Of The Immediate Medical Attention And Special Treatment Needed

Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

- Suitable Extinguishing Media: Extinguisher suitable for ordinary combustible materials. Class A extinguishing agents.
- Unsuitable Extinguishing Media: None known.

5.2 Special Hazards Arising From The Substance Or Mixture

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

5.3 Advice For Fire-Fighters

Extinguish preferably with dry chemical, foam or water spray.
SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment And Emergency Procedures
Avoid dust generation. Ensure full personal protection (including respiratory protection) during removal of spillages. (For emergency and non-emergency personnel)

6.2 Environmental Precautions
Ventilation recommended. No special measures are required.

6.3 Methods And Material For Containment And Cleaning Up
Collect mechanically and dispose of according to Section 13. Transfer to a lidded container for disposal or recovery. Avoid dust generation. Ensure adequate ventilation.

6.4 Reference To Other Sections
See Also Section 7, 8, 13.

6.5 Additional Information
None

SECTION 7: HANDLING AND STORAGE

7.1 Precautions For Safe Handling
Avoid contact with skin and eyes. Wash hands before eating, drinking or smoking.

7.2 Conditions For Safe Storage, Including Any Incompatibilities
Store in the original container in a cool, dry well-ventilated area. Keep containers tightly sealed.

Storage Temperature: Ambient
Storage Life: Not available
Incompatible Materials: Acids, except under controlled conditions

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

8.1.1 Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>144-55-8</td>
<td>-</td>
<td>5</td>
<td>-</td>
<td>-</td>
<td>Latvia, Czech Republic, Russia</td>
</tr>
</tbody>
</table>

8.1.2 Biological Limit Value

<table>
<thead>
<tr>
<th>Limit Value Type (Country Of Origin)</th>
<th>Substance</th>
<th>CAS No.</th>
<th>Biological Limit Value</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

8.1.3 PNECs and DNELs
No PNECs or DNELs available for product
8.2.2 Personal Protection Equipment

<table>
<thead>
<tr>
<th>Respirators</th>
<th>Avoid breathing dust. Assess exposure concentrations of all materials involved in the workplace. If concentrations exceed the exposure limits listed in Exposure Guidelines or irritation or other symptoms experienced, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Protection</td>
<td>Avoid eye contact. Wear protective eyewear (goggles, face shield, or safety glasses).</td>
</tr>
<tr>
<td>Gloves</td>
<td>No special precautions required.</td>
</tr>
<tr>
<td>Body Protection</td>
<td>No special precautions required.</td>
</tr>
<tr>
<td>Engineering Controls</td>
<td>Provide sufficient ventilation, particularly in closed rooms. Maintain employee exposure below applicable permissible exposure limits.</td>
</tr>
<tr>
<td>Other</td>
<td>Handle in accordance with good industrial hygiene and safety practices.</td>
</tr>
</tbody>
</table>

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information On Basic Physical And Chemical Properties

| Appearance | Crystalline powder, solid |
| Odor | Odorless |
| Melting Point (°C) / Freezing Point (°C) | Decomposes / No information available |
| Flash Point (°C) | Not combustible |
| Auto Ignition Temperature (°C) | Not Available |
| Explosive Properties | Not Available |
| Flammability (Solid, Gas) | Not Available |
| Evaporation Rate | Not Available |
| Vapor Density (Air=1) | Not Available |
| Solubility (Water) | 9.0% @ 20°C |
| Partition Coefficient (n-Octanol/Water) | Not Available |
| Color | White |
| Odor Threshold (ppm) | Not Available |
| Boiling Point/Boiling Range (°C) | Not Available |
| Explosive Limit Ranges | Not Available |
| Decomposition Temperature (°C) | Not Available |
| Oxidizing Properties | Not Available |
| pH (Value) | 8.3 (1% solution) @ 25°C |
| Vapor Pressure (mm Hg) | Not Available |
| Density (g/ml) | 0.88 g/cm³ (particle) |
| Solubility (Other) | Not Available |
| Viscosity (mPa.s) | Not Available |

9.2 Other Information

Volatile Organic Chemical (VOC) Content – Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity | None under normal conditions. |
10.2 Chemical Stability | Stable under normal conditions. |
10.3 Possibility Of Hazardous Reactions | None under normal processing. |
10.4 Conditions To Avoid | Heat, flames and sparks. Take precautionary measures against static discharges. |
10.5 Incompatible Materials | Except under controlled conditions: Acids |
10.6 Hazardous Decomposition Products | Reacts with acids to release carbon dioxide gas and heat |
SAFETY DATA SHEET

SECTION 11: TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No.</th>
<th>LD₅₀ (Oral, Rat)</th>
<th>LC₅₀ (Inhalation, Rat)</th>
<th>LD₅₀ (Dermal, Rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Bicarbonate</td>
<td>144-55-8</td>
<td>20% slurry: 4,300 mg/kg</td>
<td>No data</td>
<td>No data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50% slurry: 6,000 mg/kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

11.1 Information On Toxicological Effects

11.1.2 Mixtures

Acute Toxicity

Inhalation

Inhalation of the dust may cause breathlessness, coughing, tightness of the chest and difficulty in breathing.

Skin Contact

Prolonged contact may cause skin abrasion, redness, and itching.

Eye Contact

Eye irritant. May cause tearing and redness.

Ingestion

May cause headache, nausea and vomiting.

Irritation

Causes eye irritation. May cause respiratory irritation. May cause transient irritation.

Corrosivity

Not to be expected.

Sensitization

No data.

Repeated Dose Toxicity

No data.

Carcinogenicity

Not recognized as carcinogenic by research agencies (IARC, NTP, OSHA, ACGIH).

Mutagenicity

Not recognized as mutagenic by research agencies (IARC, NTP, OSHA, ACGIH).

Toxicity For Reproduction

Not recognized as reproductive toxic by research agencies (IARC, NTP, OSHA, ACGIH).

11.2 Other Information

None

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No substances known to be toxic to environment

12.2 Persistence And Degradability

No data

12.3 Bioaccumulative Potential

The product has low potential for bioaccumulation.

12.4 Mobility In Soil

Dissociates into ions

12.5 Results Of PBT And VpVb Assessment

No data

12.6 Other Adverse Effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Solid or chemical waste generators must determine whether a discarded waste is classified as a hazardous waste. U.S. EPA guidelines for the classifications determination are listed in 40 CFR parts 261.3. Disposal should be in accordance with local, state or national legislation. Containers must not be punctured or destroyed by burning, even when empty.

13.2 Additional Information

None
### SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Land Transport (ADR/RID) (c)(d)</th>
<th>Land Transport (Within USA) (b)(d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>UN Number</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Proper Shipping Name</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
<td>Transport Hazard Class(es)</td>
</tr>
<tr>
<td>Packing Group</td>
<td>Packing Group</td>
</tr>
<tr>
<td>Hazard Label(s)</td>
<td>Hazard Label(s)</td>
</tr>
<tr>
<td>Environmental Hazards</td>
<td>Environmental Hazards</td>
</tr>
<tr>
<td>Special Precautions For User</td>
<td>Special Precautions For User</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sea Transport (IMDG) (c)</th>
<th>Air Transport (ICAO/IATA) (c)(d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Number</td>
<td>UN Number</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Proper Shipping Name</td>
</tr>
<tr>
<td>Transport Hazard Class(es)</td>
<td>Transport Hazard Class(es)</td>
</tr>
<tr>
<td>Packing Group</td>
<td>Packing Group</td>
</tr>
<tr>
<td>Marine Pollutant</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>Special Precautions For User</td>
<td>Special Precautions For User</td>
</tr>
</tbody>
</table>

(b)- ORM-D may be applicable within the USA for package sizes less than 30kg.
(c)- Consult with transport provider.
(d)- Check relevant regulations for Special Provisions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

### SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture

15.1.1 EU Regulations

- Authorizations And/or Restrictions On Use: Consult the supplier
- European Union (Einecs/Elincs): All chemicals listed
- German WGK Number: Not available

15.1.2 National Regulations

#### USA

- TSCA (Toxic Substance Control Act): No data
- SARA 311/312 - Hazard Categories: No data
- SARA 302 - Extremely Hazardous Substances: No data
- SARA 313 - Toxic Chemicals: No data
- CERCLA (Comprehensive Environmental Response Compensation and Liability Act): No data
- CAA (Clean Air Act 1990): No data
- CWA (Clean Water Act): No data
- State Right to Know Lists: No data
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Proposition 65 (California) - This product contains the following substance(s) known to the state of California to cause cancer and/or reproductive harm; None.

Canada
WHMIS Classification No data
Canada (DSL/NDSL) No data
Canada Ingredient Disclosure List (CIDL) No data

15.2 Chemical Safety Assessment Possible irritant (Respiratory System)

The following sections contain revisions or new statements: 1-16.

LEGEND
ACGIH American Conference Of Governmental Industrial Hygienists NA Not Applicable, Not Available
AICS Australian Inventory Of Chemical Substances NIOSH National Institute For Occupational Safety And Health
ANSI American National Standards Institute ND Not Determined
atm Atmosphere (Pressure Unit) NFPA National Fire Prevention Association
BOD Biological Oxygen Demand NTP National Toxicology Program
CAS Chemical Abstracts Service OC Open Cup
CC Closed Cup OSHA Occupational Safety And Health Administration
CDTA Chemical Drug And Trafficking Act Part Partition
COC Cleveland Open Cup PEL Permissible Exposure Limits
COD Chemical Oxygen Demand ppb Parts Per Billion
coeff. Coefficient PPE Personal Protective Equipment
CFR Code Of Federal Regulations ppm Parts Per Million
CPR Cardio-Pulmonary Resuscitation psi Pounds Per Square Inch
DEA Drug Enforcement Agency RCRA Resource Conservation And Recovery Act
DOT Department Of Transportation RQ Reportable Quantity
DSCL Dangerous Substances Classification And Labeling RTK Right To Know
EC Europe Economic Community SAR Superfund Amendments And Reauthorization Act
FDA Food And Drug Administration STEL Short-Term Exposure Limit
HMIS Hazardous Materials Information System SUSDP Standard For The Uniform Scheduling Of Drugs And Poisons (Australia)
IARC International Agency For Research On Cancer TCC Tagliabue Closed Cup
IDLH Immediate Danger To Life Or Health TDG Transportation Of Dangerous Goods
kg Kilogram TPQ Threshold Planning Quantity
L Liter TQ Threshold Quantity
LC50 Median Lethal Concentration TSCA Toxic Substances Control Act
LD50 Median Lethal Dose TWA Time-Weighted Average
LEL Lower Explosive Limit UEL Upper Explosive Limit
mg Milligram WES Workplace Exposure Standard (New Zealand)
mL Milliliter WHMIS Workplace Hazardous Material Information System

References: RTECS, CAS Registry, EINECS/ESIS, Casarett & Doull's Toxicology, Goldfranks's Toxicological Emergencies, Manufacturer Information

Risk Phrases and Safety Phrases
Not classified as dangerous.

Hazard Statement(s) and Precautionary Statement(s)
None
**Training Advice:** None

**Additional Information:**

- The accumulation of airborne dust particles may lead to health and safety risks in some cases. The use of good industrial practices will mitigate this risk.
- The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Sections 2, 4, 6, 7 and 8 of the MSDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
- In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products. While the majority of our products would be considered non-combustible, the overall airborne environment should be considered when determining the need for mitigation from this potential hazard. Consult recognized experts when necessary in order to determine any possible hazard.

Please read the MSDS for specific information concerning these hazards, and contact us with any further questions. We appreciate your continued business.

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