SAFETY DATA SHEET

Section 1: Identification

Product identifier used on the label;
  Product name: Ace Violet

Other means of identification: AT10-VE

Recommended use of the chemical and restrictions on use;
  Recommended use: Marker for fabrics
  Restrictions on use: No information

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party;
  Name: Superior Sewing Machine & Supply LLC
  Department in Charge: 
  Address: 48 West 25th Street, New York, NY 10010
  Telephone number: (212) 691-5900
  Fax number: (212) 807-8743
  e-mail address: supsew@supsew.com
  Emergency phone number (800) 274-5800

Section 2: Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Physical Hazards
  Not classified

Health Hazards
  Skin corrosion/irritation: Category 2
  Serious eye damage/eye irritation: Category 1
  Skin sensitization: Category 1
  Carcinogenicity: Category 2
  Reproductive toxicity: Category 2
  Specific target organ toxicity single exposure: Category 1 (Liver), Category 2 (Kidney, respiratory system)
  Specific target organ toxicity repeated or prolonged exposure: Category 1 (Respiratory tract), Category 2 (Blood, liver, kidney)

Environmental Hazards
  Not classified

Other Hazards
Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200;

Symbol(s)

<table>
<thead>
<tr>
<th>Signal word</th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td></td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td></td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td></td>
<td>Suspected of causing cancer</td>
</tr>
<tr>
<td></td>
<td>Suspected of damaging fertility or the unborn child</td>
</tr>
<tr>
<td></td>
<td>Causes damage to liver</td>
</tr>
<tr>
<td></td>
<td>May causes damage to kidney, respiratory system</td>
</tr>
<tr>
<td></td>
<td>Causes damage to respiratory tract through prolonged or repeated exposure</td>
</tr>
<tr>
<td></td>
<td>May causes damage to blood, liver, kidney through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

Precautionary Statement(s)

[Prevention]
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.

[Emergency response]
- If on skin: Wash with plenty of water.
- If in eyes: Rinse cautiously with water for several minutes.
- Remove contact lenses, if present and easy to do. Continue rinsing.
- If exposed or concerned: Get medical advice/attention.
- Immediately call a poison center/doctor.
- If skin irritation occurs: Get medical advice/attention.
- If skin irritation or rash occurs: Get medical advice/attention.
- Take off contaminated clothing and wash it before reuse.
- Wash contaminated clothing before reuse.

[Storage]
- Store locked up.

[Disposal]
- Dispose of contents/container in accordance with local/regional/national/international regulations.
Description of any hazards not otherwise classified;
No information

Ingredient with unknown acute toxicity in the mixture
Not applicable

Section 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Concentration/concentration ranges (wt %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>5-10</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>10-20</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>111-42-2</td>
<td>1-5</td>
</tr>
</tbody>
</table>

Section 4: First-aid measures

Necessary first-aid measures by relevant routes of exposure;

IF INHALED
No special measures as there is no hazard for normal contact.

IF ON SKIN
No special measures as there is no hazard for normal contact. Wash with water and soap when necessary.

IF IN EYES
Remove contact lenses if present and easy to do, continue rinsing. If irritation persists, seek medical care.

IF SWALLOWED
Rinse mouth. Do not induce vomiting without professional instruction. Get medical attention immediately if discomfort occurs.

Most important symptoms/effects, acute and delayed;

Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
Causes damage to liver
May causes damage to kidney, respiratory system
Causes damage to respiratory tract through prolonged or repeated exposure
May causes damage to blood, liver, kidney through prolonged or repeated exposure

Indication of immediate medical attention and special treatment needed, if necessary;

Treat according to symptoms.

Section 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media;

Suitable extinguishing media:
This product is not flammable, as for a fire caused by surrounding ignition sources, choose proper extinguishers according to fire types. Seek advice from local fire-fighting authority.

Unsuitable extinguishing media
Specific hazards arising from the chemical;
No information

Special protective equipment and precautions for fire-fighters;
For initial fire, use dry powder, carbon dioxide, etc.
For large fire, it is effective to use fire foam, etc. to shut off air supply.
Fire-fighters must wear self-contained breathing apparatus and full protective equipment (e.g. fire-retardant clothing).
Deny unnecessary entry to the place around the fire.
Remove containers from fire area if it can be done without risk.
Cool surrounding facilities, etc. with water spray.
Extinguish fire from upwind, and the fire extinguishing method should be appropriate to the situation in the surroundings.

Section 6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures;
Use proper personal protective equipment as indicated in Section 8.
Keep cleaning run-offs out of municipal sewers and open bodies of water. Comply with local and national laws and regulations.

Methods and materials for containment and cleaning up;
Due to the nature of this product, there is no special measure for collection.
Collect it into a proper container for disposal.

Section 7: Handling and storage

Precautions for safe handling
Protective measures:
Wash hands thoroughly after handling.
Wear eye protection/face protection.
Avoid damage of packaging or containers during handling.

Advice on general occupational hygiene:
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.

Conditions for safe storage, including any incompatibilities
Technical measures:
In the storage area, install adequate light and ventilation systems to handle hazardous materials.

Incompatible materials:
No special requirement for this product.

Conditions for safe storage:
Store it in a well-ventilated, cool and dry store room. The storeroom should be equipped with proper facilities for accidental fire.

**Packing material:**

No information

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**Section 8: Exposure controls/personal protection**

**Occupational Exposure Limits:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA PEL</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ACGIH TLV-TWA (2015)</td>
<td>5 mg/m³ (Triethanolamine)</td>
</tr>
<tr>
<td></td>
<td>0.2 ppm (Diethanolamine) (Inhalable fraction and vapor)</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls;**

If user operations generate mist/vapours, use ventilation to keep exposure to airborne contaminants in a proper range.

Install eye washer and safety shower near handling and storage area.

Indicate the location of this facility with clear and prominent.

**Individual protection measures, such as personal protective equipment;**

- **Respiratory protection**
  - Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms occur.

- **Hand protection**
  - Recommend wearing protective gloves for industrial hygienic purpose.

- **Eye protection**
  - Wear safety glasses.

- **Skin and body protection**
  - Recommend wearing general working clothing.

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**Section 9: Physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Violet liquid</td>
</tr>
<tr>
<td>(physical state, color, etc.)</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information</td>
</tr>
<tr>
<td>pH</td>
<td>No information</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No information</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>This product is not classified as flammable liquid.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information</td>
</tr>
<tr>
<td>Solubility (ies)</td>
<td>No information</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information</td>
</tr>
</tbody>
</table>
Auto-ignition temperature: No information
Decomposition temperature: No information
Viscosity: No information

Other information
No information

Section 10: Stability and reactivity

Reactivity
No information

Chemical stability
This product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions
No information

Conditions to avoid
No special requirement for this product.

Incompatible materials
No special requirement for this product.

Hazardous decomposition products
No information

Section 11: Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics;
Information on product:
No information

Information on ingredients:
Sodium carbonate

Acute toxicity (oral): Rat LD_{50}=2,800 mg/kg
Acute toxicity (dermal): Rabbit LD_{50} > 2,000 mg/kg
Acute toxicity (inhalation: dust/mist): Rat LC_{50}=1.2 mg/L/4h
Serious eye damage/irritation: The rabbit tests have yielded inconsistent results in that the substance was found to be not irritating and highly irritating. In one of the tests, symptoms of the corneas, irises, and conjunctivas (redness and chemosis) developed in all of the cases in which the eyes were not washed after the application. These symptoms remained unrecoverable 14 days after the application, and were quantified by the maximum mean total Draize score of 105. Yet, in another rabbit test in which the...
STOT-single exposure:

In the tests using rats, mice, and guinea pigs, symptoms of respiratory disorder such as dyspnoea and wheezing were observed immediately after the inhalation exposure and they disappeared after 3-4 hours. In oral administrations to rats, symptoms such as motor ataxia, prostration, and lethargy were observed, and they disappeared 5 days after the administration among surviving rats. In dermal administrations, although lethargy was observed 24 hours after the administration, no mortality occurred.

Triethanolamine

Acute toxicity (oral):
Rat LD$_{50}$=8,680 mg/kg

Acute toxicity (dermal):
Rabbit LD$_{50}>2,000$ mg/kg

Skin corrosion/irritation:
Skin irritation was acknowledged by high exposure levels or repeated exposure in the humans.

Serious eye damage/irritation:
Eye irritation tests using the rabbit, irritation was acknowledged and it recovered completely 14 days afterward.

Skin sensitization:
Reports of allergic contact dermatitis in human.

Diethanolamine

Acute toxicity (oral):
Rat LD$_{50}$=780 mg/kg

Acute toxicity (dermal):
Rabbit LD$_{50}$=13,000 mg/kg

Skin corrosion/irritation:
The stimulative grades are slight on rabbits. But moderate irritations on human.

Serious eye damage/irritation:
Severe irritation is indicated by the rabbit.

Carcinogenicity:
This product is estimated group 2B (IARC (2011)) by IARC.

Reproductive toxicity:
In rats developmental toxicity studies by oral administration in pregnancy 6 to 19 day, at 125 or 200 mg / kg or more doses, at a dose that was seen general toxicity of the mother animal, effects on reproduction were observed.

STOT-single exposure:
In oral administration test of rats, liver and kidney damage was seen. In inhalation test of rats, observed effect on the respiratory system.

STOT-repeated exposure:
In inhalation test of rats, observed effects on respiratory tract. In drinking water administration test of rats, effects on blood, kidney, and liver were seen.

Delayed and immediate effects and also chronic effects from short- and long-term exposure;

Causes skin irritation
May cause an allergic skin reaction
Causes serious eye damage
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
Causes damage to liver
May cause damage to kidney, respiratory system
Causes damage to respiratory tract through prolonged or repeated exposure
May cause damage to blood, liver, kidney through prolonged or repeated exposure

Numerical measures of toxicity (such as acute toxicity estimates);
   Not applicable

Whether the chemical is listed in the NTP Report on Carcinogens or has been found to be a potential carcinogen in the IARC Monographs, or by OSHA;
   IARC: Listed as Group2B (Diethanolamine)
   NTP Report: Not listed
   OSHA: Not listed

Section 12: Ecological information

Ecotoxicity:
   Information on product: No information

   Information on ingredients:
      Sodium carbonate
         Aquatic acute toxicity: Crustaceans (Daphnia magna) 48h EC_{50}=250mg/L
         Aquatic chronic toxicity: No information

      Triethanolamine
         Aquatic acute toxicity: Algae (Scenedesmus subspicatus) 96h EC_{50}=169 mg/L
         Crustaceans (Daphnia magna) 24h EC_{50}=1,386 mg/L
         Fish (Fathead minnow) 96h LC_{50}=11,800 mg/L
         Aquatic chronic toxicity: Crustaceans (Daphnia magna) 21d NOEC=16 mg/L

      Diethanolamine
         Aquatic acute toxicity: Crustaceans (Daphnia magna) 48h LC_{50}=2.15 mg/L
         Algae (Pseudokirchneriella subcapitata) 96h EC_{50}=2.1-2.3 mg/L
         Aquatic chronic toxicity: Crustaceans (Daphnia magna) 21d NOEC=0.78 mg/L

Persistence and degradability:
   Information on product: No information

   Information on ingredients:
      Triethanolamine
         Biodegradability by BOD=0%
Diethanolamine

Biodegradability by BOD=51.4%

Bioaccumulative potential:
Information on product: No information
Information on ingredients: No information

Mobility in soil:
Information on product: No information
Information on ingredients: No information

Other adverse effects:
No information

Section 13: Disposal considerations

Waste treatment methods
Dispose of waste in accordance with applicable local, regional and international regulations and standards.
When disposing, consult to a certificated waste trader or local offices if they deal with the waste.
Used container should be recycled after cleaning or dispose of in compliance with related laws and local regulations.
Contents should be removed completely when dispose of empty containers.

Section 14: Transport information

UN number Not applicable
UN proper shipping name Not applicable
Transport hazard class(es) Not applicable
Packing group Not applicable
Environmental hazards Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and IBC code Not applicable

Special precautions for user
When transporting, avoid direct sunlight. Confirm no leakage to containers. When loading, prevent containers from falling, dropping off or damaging. Take preventive measures of collapse.

Section 15: Regulatory information

OSHA: Hazardous chemical
TSCA inventory: All ingredients in this product are listed on the TSCA Inventory.
TSCA SNUR: Not listed
SARA Title III: Section 302 (Extremely Hazardous Substances): Not listed
Section 304 (Hazardous Substances): Not listed
Section 313 (TRI Chemicals): Listed (Diethanolamine)
Clean Air Act: This product does not contain any substances regulated as hazardous air
pollutants under Section 112 of the Clean Air Act.

**Clean Water Act:**
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act.

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**Section 16: Other information, including date of preparation or last revision**

**Update history:**

Date of issue: Sept. 8, 2015

**References:**

NITE GHS classification results (2015).

ACGIH, American Conference of Governmental Industrial Hygienists (2015) TLVs and BEIs.

[Disclaimer]
This SDS has been prepared based on the best available information however, it may not be sufficient in some cases. It is user’s responsibility to modify or update any contents in this SDS regarding information on hazardous properties and/or instruction for safe handling of the product when they become available. Precautionary measures in this SDS are only applicable for normal handling conditions and it is necessary to take appropriate additional measures to ensure safe handling which depend on your specific use conditions or situations.