SAFETY DATA SHEET

N-Hance™ SP-100 CONDITIONING AGENT
™ Trademark, Ashland or its subsidiaries, registered in various countries
736752

Revision Date: 10/19/2015
Print Date: 8/19/2016
SDS Number: 000000150146

Version: 1.3


SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Trade name : N-Hance™ SP-100 CONDITIONING AGENT
™ Trademark, Ashland or its subsidiaries, registered in various countries

Recommended use of the chemical and restrictions on use
Use of the Substance/Mixture : in Personal Care

Details of the supplier of the safety data sheet
Ashland
P.O. Box 2219
Columbus, OH 43216
United States of America

Emergency telephone number
1-800-ASHLAND (1-800-274-5263)

Regulatory Information Number
1-800-325-3751

Product Information
614-790-3333

EHS Customer Requests@ashland.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Combustible Dust :
Carcinogenicity (Dermal) : Category 2

GHS Label element
Hazard pictograms : ☑

Signal Word : Warning

Hazard Statements : May form combustible dust concentrations in air. Suspected of causing cancer in contact with skin.

Precautionary Statements : Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:

1 / 13
IF exposed or concerned: Get medical advice/attention.

**Storage:**
Store locked up.

**Disposal:**
Dispose of contents/container to an approved waste disposal plant.

**Other hazards**
None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Chemical nature:** organic

#### Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Classification</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COCO DIETHANOLAMIDE</td>
<td>68603-42-9</td>
<td>Skin Irrit. 2; H315</td>
<td>0.17</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Eye Irrit. 2A; H319</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Carc. 2; H351</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**General advice:** No hazards which require special first aid measures.

**If inhaled:** If breathed in, move person into fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

**In case of skin contact:** First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

**In case of eye contact:** Remove contact lenses. Protect unharmed eye.

**If swallowed:** Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Most important symptoms:** Signs and symptoms of exposure to this material through
and effects, both acute and delayed breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways) Suspected of causing cancer in contact with skin.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam

Specific hazards during firefighting : Organic dusts at sufficient concentration can form explosive mixtures in air. Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : carbon dioxide and carbon monoxide Nitrogen oxides (NOx)

Specific extinguishing methods :

Product is compatible with standard fire-fighting agents.

Further information :

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters :

In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures :

Avoid dust formation. Avoid breathing dust. Material can create slippery conditions. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions :

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up :

Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.
Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid dust formation.
Ensure all equipment is electrically grounded and bonded before beginning transfer operations.
The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

For further guidance on prevention of dust explosions, refer to National Fire Protection Association (NFPA) 654: “Standard for the Prevention of Fire and Dust Explosions, from the Manufacturing, Processing and Handling of Combustible Particulate Solids”.

Conditions for safe storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
No smoking.

Materials to avoid : No materials to be especially mentioned.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>COCO DIETHANOLAMIDE</td>
<td>68603-42-9</td>
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</tbody>
</table>

Engineering measures : Provide appropriate exhaust ventilation at places where dust is formed.
General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.
Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Eye protection : Safety glasses

Skin and body protection : Wear as appropriate: Safety shoes. Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Avoid breathing dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Physical state : solid

Colour : white

Odour : amine-like

Odour Threshold : No data available

pH : 4, Concentration: 10 g/l (20 °C)

Melting point/freezing point : Not applicable

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : Not applicable

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Density : No data available
Bulk density : 620 kg/m³

Solubility(ies)
  Water solubility : soluble (20 °C)

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Auto-ignition temperature : > 400 °C

Thermal decomposition : No data available

Viscosity
  Viscosity, dynamic : No data available
  Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Dust may form explosive mixture in air.

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.

Hazardous decomposition products : carbon dioxide and carbon monoxide
  Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
  Skin contact
  Eye Contact
  Ingestion

Acute toxicity
Not classified based on available information.

Components:
**COCO DIETHANOLAMIDE:**

- **Acute oral toxicity**: LD 50 (Rat): > 5,000 mg/kg
- **Acute dermal toxicity**: LD 50 (Rabbit): > 2 g/kg
  
  **Assessment**: Not classified as acutely toxic by dermal absorption under GHS.

**Skin corrosion/irritation**
Not classified based on available information.

**Components:**
- **COCO DIETHANOLAMIDE**: Result: Irritating to skin.

**Serious eye damage/eye irritation**
Not classified based on available information.

**Product:**
Remarks: Unlikely to cause eye irritation or injury., Product dust may be irritating to eyes, skin and respiratory system.

**Components:**
- **COCO DIETHANOLAMIDE**: Result: Severely irritating to eyes

**Respiratory or skin sensitisation**
- **Skin sensitisation**: Not classified based on available information.
- **Respiratory sensitisation**: Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Suspected of causing cancer in contact with skin.

**Components:**
- **COCO DIETHANOLAMIDE**: Carcinogenicity - Limited evidence of carcinogenicity in animal studies (dermal)
  
  **Assessment**

**Reproductive toxicity**
Not classified based on available information.

**STOT - single exposure**
Not classified based on available information.

**STOT - repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

**Further information**

**Product:**
Remarks: No data available

**Carcinogenicity**
- **IARC** Group 2B: Possibly carcinogenic to humans
- **OSHA** No component of this product present at levels greater than or
equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:
Ecotoxicology Assessment
Acute aquatic toxicity: Acute aquatic toxicity Category 3; Harmful to aquatic life.
Chronic aquatic toxicity: Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

Components:
COCO DIETHANOLAMIDE:
Toxicity to fish: LC 50 (Danio rerio (zebra fish)): 3.6 mg/l
Exposure time: 96 h
Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates: EC 50 (Water flea (Daphnia pulex)): 2.15 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae: EC 50 (Desmodesmus subspicatus (green algae)): 2.2 mg/l
Exposure time: 72 h

Persistence and degradability

Components:
COCO DIETHANOLAMIDE:
Biodegradability: Result: Readily biodegradable

Bioaccumulative potential

Components:
No data available

Mobility in soil

Components:
No data available

Other adverse effects
No data available
**Product:**

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

**Components:**

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

General advice: The product should not be allowed to enter drains, water courses or the soil. Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14. TRANSPORT INFORMATION**

International transport regulations

<table>
<thead>
<tr>
<th>REGULATION</th>
<th>ID NUMBER</th>
<th>PROPER SHIPPING NAME</th>
<th>*HAZARD CLASS</th>
<th>SUBSIDIARY HAZARDS</th>
<th>PACKING GROUP</th>
<th>MARINE POLLUTANT / LTD. QTY.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MX_DG</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Not dangerous goods</td>
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<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER</td>
<td>Not dangerous goods</td>
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<td></td>
</tr>
<tr>
<td>INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO</td>
<td>Not dangerous goods</td>
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<td></td>
</tr>
<tr>
<td>INTERNATIONAL MARITIME DANGEROUS GOODS</td>
<td>Not dangerous goods</td>
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<td></td>
</tr>
<tr>
<td>TDG_INWT_C</td>
<td>Not dangerous goods</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
### TDG_RAIL_C
Not dangerous goods

### TDG_ROAD_C
Not dangerous goods

### U.S. DOT - INLAND WATERWAYS
Not dangerous goods

### CFR_RAIL_C
Not dangerous goods

### U.S. DOT - ROAD
Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

<table>
<thead>
<tr>
<th>Marine pollutant</th>
<th>no</th>
</tr>
</thead>
</table>

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**SECTION 15. REGULATORY INFORMATION**

| SARA 311/312 Hazards | Fire Hazard  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Chronic Health Hazard</td>
</tr>
</tbody>
</table>

| SARA 313 Component(s) | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |

**Pennsylvania Right To Know**

<table>
<thead>
<tr>
<th>Polymer</th>
<th>75150-29-7</th>
<th>90.00 - 100.00 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>10.00 - 20.00 %</td>
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</tbody>
</table>

**New Jersey Right To Know**

<table>
<thead>
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**California Prop 65**

WARNING! This product contains a chemical known to the
State of California to cause cancer.
COCO 68603-42-9
DIETHANOLAMIDE

The components of this product are reported in the following inventories:
TSCA : On TSCA Inventory
DSL : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.
AICS : On the inventory, or in compliance with the inventory
ENCS : Not in compliance with the inventory
KECI : On the inventory, or in compliance with the inventory
PICCS : Not in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory

Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information
Revision Date: 10/19/2015

<table>
<thead>
<tr>
<th>NFPA:</th>
<th>HMIS III:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>HEALTH 0*</td>
</tr>
<tr>
<td>Instability</td>
<td>FLAMMABILITY 0</td>
</tr>
<tr>
<td>Health</td>
<td>PHYSICAL HAZARD 0</td>
</tr>
</tbody>
</table>

NFPA Flammable and Combustible Liquids Classification
Not applicable

Full text of H-Statements
Sources of key data used to compile the Safety Data Sheet
Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:
- ACGIH: American Conference of Industrial Hygienists
- BEI: Biological Exposure Index
- CAS: Chemical Abstracts Service (Division of the American Chemical Society).
- CMR: Carcinogenic, Mutagenic or Toxic for Reproduction
- FG: Food grade
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- H-statement: Hazard Statement
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the “International Air Transport Association” (IATA).
- ICAO: International Civil Aviation Organization
- ICAO-TI (ICAO): Technical Instructions by the “International Civil Aviation Organization”
- IMDG: International Maritime Code for Dangerous Goods
- ISO: International Organization for Standardization
- logPow: octanol-water partition coefficient
- LCxx: Lethal Concentration, for xx percent of test population
- LDxx: Lethal Dose, for xx percent of test population
- ICxx: Inhibitory Concentration for xx of a substance
- Ecxx: Effective Concentration of xx
- N.O.S.: Not Otherwise Specified
- OECD: Organization for Economic Co-operation and Development
- OEL: Occupational Exposure Limit
- P-Statement: Precautionary Statement
- PBT: Persistent, Bioaccumulative and Toxic
- PPE: Personal Protective Equipment
- STEL: Short-term exposure limit
- STOT: Specific Target Organ Toxicity
- TLV: Threshold Limit Value
- TWA: Time-weighted average
- vPvB: Very Persistent and Very Bioaccumulative
- WEL: Workplace Exposure Level
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| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| DOT | Department of Transportation |
| FIFRA | Federal Insecticide, Fungicide, and Rodenticide Act |
| HMIRC | Hazardous Materials Information Review Commission |
| HMIS | Hazardous Materials Identification System |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| OSHA | Occupational Safety and Health Administration |
| PMRA | Health Canada Pest Management Regulatory Agency |
| RTK | Right to Know |
| WHMIS | Workplace Hazardous Materials Information System |