

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name VO5 NORMAL SHAMPOO
Revision date 03-Mar-2007
CAS # Mixture
Product use Hair Shampoo
Company information ALBERTO-CULVER USA, INC.
2525 Armitage Avenue
Melrose Park, IL 60160 US
Emergency Emergency Phone (708) 450-3175
Shipping Emergencies CHEMTREC 800 424-9300 or 703 527-3887
General information Business Phone (708) 450-3000

2. Hazards Identification

Emergency overview Health injuries are not known or expected under normal use. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Eyes Health injuries are not known or expected under normal use.
Skin Health injuries are not known or expected under normal use.
Inhalation Health injuries are not known or expected under normal use.
Ingestion Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Health injuries are not known or expected under normal use.
Potential environmental effects This material is not expected to be harmful to aquatic life.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Ammonium Chloride	12125-02-9	< 1
Non-hazardous and other components below reportable levels		> 90

4. First Aid Measures

First aid procedures
Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.
Skin contact Wash off with soap and water. Get medical attention if irritation develops or persists.
Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, seek medical attention.
General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties The product is not flammable. None known.
Extinguishing media
Suitable extinguishing media Water.
Large Fires: Water spray, fog or regular foam.
Small Fires: Dry chemical, CO2, water spray or regular foam.

6. Accidental Release Measures

Personal precautions	Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away.
Environmental precautions	Do not contaminate water. Prevent further leakage or spillage if safe to do so.
Methods for containment	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
Methods for cleaning up	Large Spills: Should not be released into the environment. Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Handle and open container with care.
Storage	Use care in handling/storage.

8. Exposure Controls / Personal Protection

Exposure guidelines

ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Ammonium Chloride 12125-02-9 20 Mg/m³ STEL (fume)

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Ammonium Chloride 12125-02-9 10 Mg/m³ TWA (fume)

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Ammonium Chloride 12125-02-9 eye and upper respiratory tract irritation (fume)

Engineering controls	Ensure adequate ventilation, especially in confined areas.
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Personal protective equipment

Eye / face protection Applicable for industrial settings only. Wear chemical goggles.

Skin protection Not normally needed.
Applicable for industrial settings only. Protective gloves.

Respiratory protection No personal respiratory protective equipment normally required.

Applicable for industrial settings only. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance	Not available
Clarity	Not available
Color	Not available
Form	Liquid.
Odor	Not available
Odor threshold	Not available
Physical state	Liquid.
pH	4.5 - 5.5
Melting point	Not available
Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available

Specific gravity	1.005 - 1.019
Relative density	Not available
Solubility (H2O)	Not available
Octanol/H2O coeff	Not available
Auto-ignition temperature	478.4 °F (248 °C) estimated
Decomposition temperature	Not available
Viscosity	4500 - 9000 cps

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.

11. Toxicological Information

Acute effects Acute LD50: 12740 mg/kg estimated, Rat, Oral

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

Ammonium Chloride 12125-02-9 Oral LD50 Rat: 1410 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Chronic effects Hazardous by OSHA criteria.

Carcinogenicity Not expected to be hazardous by OSHA criteria.

Neurological effects Not expected to be hazardous by OSHA criteria.

Mutagenicity Not expected to be hazardous by OSHA criteria.

Reproductive effects Not expected to be hazardous by OSHA criteria.

Teratogenicity Not expected to be hazardous by OSHA criteria.

Epidemiology Hazardous by OSHA criteria.

Further information This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity This material is not expected to be harmful to aquatic life.

Environmental effects

Ecotoxicity - Freshwater Fish Species Data

Ammonium Chloride 12125-02-9 24 Hr LC50 Lepomis macrochirus: 725 mg/L; 96 Hr LC50 Cyprinus carpio: 209 mg/L [static]

Ecotoxicity - Water Flea Data

Ammonium Chloride 12125-02-9 24 Hr EC50 water flea: 202 mg/L

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

FDA - Food Additives Generally Recognized as Safe (GRAS)

Ammonium Chloride 12125-02-9 21 CFR 184.1138

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986 (SARA)Hazard categories Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (CCS)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Korean Inventory of Chemicals (KICS)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

International regulations The product does not need to be labelled in accordance with EC directives or respective national laws. This safety datasheet complies with the requirements of Directive 2001/58/EC.**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.**Massachusetts - Right To Know List**

Ammonium Chloride 12125-02-9 Present

New Jersey - Right to Know Hazardous Substance List

Ammonium Chloride 12125-02-9 sn 0093

Pennsylvania - RTK (Right to Know) List

Ammonium Chloride 12125-02-9 Environmental hazard

16. Other Information**HMIS ratings** Health: 0
Flammability: 0
Physical hazard: 0**NFPA ratings** Health: 0
Flammability: 0
Instability: 0**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**Issue date** 03-Mar-2007