



## Material Safety Data Sheet

FOR INDUSTRIAL USE ONLY

### Cascoset K-6

Revision Date 02-SEP-2011

#### 1. Product and company identification

<b>Product name</b>	Cascoset K-6
<b>MSDS Number</b>	000000103954
<b>Product Type</b>	Catalyst
<b>Product use</b>	Catalyst - Dry
<b>Manufacturer, Importer, Supplier</b>	Hexion Inc. 180 East Broad Street Columbus, OH 43215
<b>Print date</b>	07-JUL-2017
<b>Telephone</b>	<b>For Emergency Medical Assistance</b> Call Health & Safety Information Services, 1-866-303-6949  <b>For Emergency Transportation Information</b> CHEMTREC US Domestic (800) 424-9300 CHEMTREC International (703) 527-3887 CANUTEC CA Domestic (613) 996-6666  For additional health and safety or regulatory information, call 1 888 443 9466 .

*Part of the CASCO® Brand of Adhesives and Resins from Momentive Specialty Chemicals*

#### 2. Hazards identification

<b>Form</b>	Solid
<b>Odor</b>	odorless.
<b>OSHA/HCS status</b>	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency overview</b>	WARNING ! HARMFUL IF SWALLOWED. CAUSES RESPIRATORY TRACT AND EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

##### Potential acute health effects

<b>Inhalation</b>	Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	Harmful if swallowed.
<b>Skin</b>	Slightly irritating to the skin.

**Eyes** Irritating to eyes.

**Potential chronic health effects**

**Chronic effects** Contains material that can cause target organ damage.

**Carcinogenicity** No known significant effects or critical hazards.

**Mutagenicity** No known significant effects or critical hazards.

**Teratogenicity** No known significant effects or critical hazards.

**Developmental effects** No known significant effects or critical hazards.

**Fertility effects** No known significant effects or critical hazards.

**Target organs** Contains material which causes damage to the following organs: upper respiratory tract, skin, eyes, Review Section 2 and 11 for any additional assessments.

**Over-exposure signs/symptoms**

**Inhalation** Adverse symptoms may include the following: respiratory tract irritation, coughing,

**Ingestion** No specific data.

**Skin** Adverse symptoms may include the following: irritation, redness,

**Eyes** Adverse symptoms may include the following: pain or irritation, watering, redness,

**Medical conditions aggravated by over-exposure** Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See section 11 for more detailed information on health effects and symptoms.

### 3. Composition/Information on ingredients

<u>Ingredient name</u>	<u>CAS number</u>	<u>WT %</u>
Ammonium Chloride	12125-02-9	70.0 - 100.0

*\*\* Any applicable Canadian trade secret numbers will be listed in Section 15.*

### 4. First aid measures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

**Skin contact** Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation** Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If

unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

<b>Ingestion</b>	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
<b>Protection of first aid personnel</b>	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
<b>Notes to physician</b>	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

See section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

<b>Flammability of the product</b>	No specific fire or explosion hazard.
<b><u>Extinguishing media</u></b>	
<b>Suitable</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	None known.
<b>Special exposure hazards</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
<b>Hazardous combustion products</b>	Decomposition products may include the following materials: nitrogen oxides, halogenated compounds,
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).
<b>Environmental precautions</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Large spill</b>	Move containers from spill area. Approach release from upwind. Prevent

entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

**Small spill**

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

**Handling**

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

**Ingredient name**

Ammonium Chloride

**Occupational exposure limits**

**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures**

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures**

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

<b>Hands</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
<b>Eyes</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
<b>Skin</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Environmental exposure controls</b>	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

Physical state	: Solid
Color	: White
Odor	: odorless.
Odor threshold	: Not available
pH	: Not applicable.
Freezing Point	: 338 °C(640 °F) Not applicable.
Boiling point	: Approx. 520 °C (968 °F)
Flash point	: Not applicable.
Evaporation rate	: Not applicable.
Flammable limits	
Upper:	: Not defined for solids
Lower:	: Not defined for solids (See MEC)
Vapor pressure	: Approx. 1 mm Hg @25 °C (77 °F )
Vapor density	: Not available
Relative density	: 1.527 - 1.530
Solubility	: 29.7 g/l @0 °C(32 °F)
Partition coefficient:	: Not available
n-octanol/water	
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available

#### Other information

Not applicable.

## 10. Stability and reactivity

<b>Reactivity</b>	Stable under normal conditions.
<b>Stability</b>	The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Strong oxidizer,

<b>Materials to avoid</b>	No specific data.
<b>Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11. Toxicological information

### Acute toxicity

#### Ingredient name

Ammonium Chloride

LD50 Oral	Rat	1,650 mg/kg
LD50 Oral	Mouse	1,300 mg/kg

### Other Toxicological Information

### Carcinogenicity

#### Classification

#### Ingredient name

Ammonium Chloride

ACGIH	Not classified
IARC	Not classified
NTP	Not listed
OSHA	Not classified

## 12. Ecological information

### Environmental effects

No known significant effects or critical hazards.

### Aquatic ecotoxicity

#### Ingredient name

Ammonium Chloride

Salt water      Acute LC50 13.8 - 27.2 mg/l/4 d      Gilthead

### Other adverse effects

No known significant effects or critical hazards.

## 13. Disposal considerations

### Waste disposal

The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14. Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

### International transport regulations

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR		Non-regulated		
TDG		Non-regulated		

IMO/IMDG Non-regulated

IATA (Cargo) Non-regulated

\*PG : Packing group

## 15. Regulatory information

### US regulations

**HCS Classification** Irritating material, Target organ effects

**U.S. Federal regulations** **SARA 311/312 Classification** Immediate (acute) health hazard, Delayed (chronic) health hazard

#### **SARA 313 - Supplier Notification**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.  
Ammonium Chloride - 12125-02-9 ( 99.50%),

**SARA 302 Extremely Hazardous Substances** None required.

**State regulations** **Massachusetts RTK Substances** The following components are listed: Ammonium Chloride,

**New Jersey RTK Hazardous Substances** The following components are listed: Ammonium Chloride,

**Pennsylvania RTK Hazardous Substances** The following components are listed: Ammonium Chloride,

**California Prop. 65:** None required.

### Canada

**WHMIS (Canada)** Class D-2B: Material causing other toxic effects (Toxic).

**Canadian lists** **Canadian NPRI:** The following components are listed: Ammonium Chloride,

### International regulations

**Chemical inventories**  
Australia inventory (AICS) All components are listed or exempted.  
Canada inventory All components are listed or exempted.  
Japan inventory All components are listed or exempted.  
China inventory (IECSC) All components are listed or exempted.  
Korea inventory All components are listed or exempted.  
New Zealand Inventory (NZIoC) Not determined.  
Philippines inventory (PICCS) All components are listed or exempted.  
United States inventory (TSCA 8b) All components are listed or exempted.

## 16. Other information

**Hazardous Material Information System III (U.S.A.)**  
Health : 2  
Flammability: 0  
Physical hazards : 0  
Chronic : \*

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented

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