



# MATERIAL SAFETY DATA SHEET

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## 1- COMMERCIAL NAME : Adekit A211 Polyol

*Do not handle this material until the manufacturer's safety precautions have been read and understood! Regulations require that all employees be educated & trained on the Material Safety Data Sheets for all products with which they come in contact.*

## 2- COMPOSITION/INFORMATION ON INGREDIENTS :

CHEMICAL NAME	C.A.S	QTY%
1. Di-(methylthio)toluenediamine	106264-79-3	10-25
2. Polyether polyol	trade secret	70-80
3. N/A	N/A	N/A

## 3- HAZARDS IDENTIFICATION :

### POTENTIAL HEALTH HAZARD

**Eye:** May cause moderate eye irritation.

**Skin:** Prolonged exposure may cause slight irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

**Ingestion:** Single dose oral toxicity is considered to be low; may cause irritation to mouth, throat, and gastrointestinal tract. **Chronic Overexposure: (Target Organ) - Kidney & Liver**

**Inhalation:** At room temperature, exposures to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation.

## 4- FIRST AID MEASURES :

- **Change any soiled clothing immediately.**
- **In case of eye contact :** open eyelids as far as possible and flush with large quantities of water for at least fifteen minutes. Seek immediate medical attention.
- **In case of skin contact :** physically remove the product and wash skin thoroughly with soap and water. Consult a physician if skin irritation occurs.
- **In case of swallowing :** dilute with water and induce vomiting; seek immediate medical attention.
- **In case of inhalation :** remove the patient from the contaminated area. Consult physician if after-effects occur.

## 5- FIRE-FIGHTING MEASURES :

### 5-1 Fire-extinguisher types :

- Use : chemical foam, CO<sub>2</sub>, powder. Where the fire is of major proportions, water spray may also be used.

### 5-2 Specific fire and explosion risks :

Incomplete combustion or pyrolysis mainly produces oxides of carbon, nitrogen, and sulfur. Closed containers may explode when exposed to extreme heat or burst when contaminated with water.

### 5-3 specific protective measures during firefighting :

Firefighting personnel should be equipped with insulated, autonomous respiratory protection equipment.

**COMMERCIAL NAME : Adekit A211 Polyol****6- ACCIDENTAL RELEASE MEASURES :****6-1 Individual protection :**

Wearing of suitable protective clothing and protective equipment for face/eyes.

**6-2 Environmental protection :** Please see § 12

**6-3 Decontamination procedures :**

- Contain spilt material in order to avoid its transfer to sewers or rivers and streams.
- Physically remove the material.
- Cover with an absorbent substance. After approximately one hour, transfer to suitable drum/container for proper disposal.

**7- HANDLING AND STORAGE :****7-1 Handling :**

- Inform personnel of risks associated with the product, the precautions to be taken and procedures to follow where an accident occurs.
- Observe personal hygiene rules to avoid contact with eyes and skin.
- Avoid inhaling vapors produced by the material, especially when heated and/or sprayed.
- Install showers and eye baths ("fountain" type).
- Ensure sufficient ventilation, including appropriate local air extraction, in order to comply with workplace exposure limits.
- Wash hands thoroughly at beginning of every work break and at the end of the working day.
- Work stations and the general working area must be kept perfectly clean.

**7-2 Storage :**

- Keep the material hermetically sealed in its original packaging, protected from humidity and at a temperature between 59 and 77°F / 15 and 25°C in a well-ventilated storage facility.
- Ensure that the floor of the storage area is impermeable and concave in profile in order to provide effective containment.
- Keep the product away from food.
- Reproduce labeling on all new packs where original packaging is divided.

**8- EXPOSURE CONTROLS/PERSONAL PROTECTION :**

**8-1 Exposure controls :** Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations. Always maintain workplace air contaminants to a minimum.

**8-2 Personal protection :**

- respiratory protection : If product is being heated and/or sprayed (avoid vapors and/or mists)
- eye protection : YES, safety glasses with side shields
- skin protection : YES, protective gloves, such as nitrile, latex or rubber

**COMMERCIAL NAME : Adekit A211 Polyol****9- PHYSICAL AND CHEMICAL PROPERTIES :**

**Physical state :** liquid

**Color :** light green

**Odor :** Characteristic

**pH :** not established

**Flash point :** > 230°F / 110°C

**Decomposition temperature :** > 392°F / 200°C

**Specific gravity :** 1.44

**Solubility :**

- in water : at 68°F / 20°C : slight
- in solvents : YES (soluble in many organic solvents : benzene hydrocarbons and chlorinated hydrocarbons, acetone, phthalates, ...)

**10- STABILITY AND REACTIVITY :****10-1 Dangerous decomposition by-products :**

- These are non-existent if storage and handling rules are followed (please see also § 5-2).

**10-2 Hazardous reactions with :**

- Oxidizers. Avoid contact with strong acids; avoid unintended contact with isocyanates.

**11- TOXICOLOGICAL INFORMATION :**

**Effects on eyes :** may cause slight temporary irritation.

**Effects on skin :** repeated or prolonged single exposure may cause irritation to the skin. May cause a cutaneous allergic reaction in predisposed individuals. It appears unlikely that any danger is attached to absorption of quantities of the product through the skin following prolonged single exposure.

**Dermal - LD50 (rabbit): >2000 mg/kg (Di-(methylthio)toluenediamine)**

**Effects of inhalation :** may be irritating to the respiratory tract.

**Effects on ingestion :** harmful if swallowed. **Oral - LD50 (rat): 1515 mg/kg (Di-(methylthio)toluenediamine)**

**Target Organ - Kidney & Liver**

**12- ECOLOGICAL INFORMATION :**

Based on data for one or more similar products :

Ecotoxicity : this product is considered a Marine Pollutant.

Biodegradability : not established

**13- DISPOSAL CONSIDERATIONS :**

All disposal methods must be in compliance with all Federal, State/Provincial and local regulations. Regulations may vary in different locations. Waste characteristics and compliance with applicable laws are the responsibility solely of the waste generator.

For unused & uncontaminated product, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device.

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**COMMERCIAL NAME : Adekit A211 Polyol**

**14- TRANSPORT INFORMATION :**

**DOT Regulations/Information:**

**Proper Shipping Name:** Environmentally Hazardous Substances, Liquid, N.O.S.  
(Aromatic Amines)

**Hazard Class:** 9 (Misc.)

**UN/NA Number:** 3082

**Packaging Group:** III

**Internal label:** H0002000

**15- REGULATORY INFORMATION :**

**US Federal Regulation**

Toxic Substances Control Act (TSCA):

All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

OSHA Hazard Communication Standard hazard classes:

Non-hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA PEL/TWA : none

Sec. 313 Chemicals : none

**16- OTHER INFORMATION :**

**HMIS Ratings:**

**Health. Flammability. Reactivity**

**2\*.1.1.**

Ratings Key: 4 = Highest hazard, 0 = Lowest hazard, \* = Chronic Health Hazard

REVEALING MODIFICATION : P3.PDF

Revised : 11/22/2006 Supersedes sheet : N/A This sheet provides a complement to the product use instructions but does not replace them. The information it contains is based on our current knowledge of the product concerned at the date of drafting. That information is given in good faith and does not in any circumstances remove from the user his duty to be aware of and to follow all legal regulations and statutes covering his activities. The user takes sole responsibility for application of safety measures covering the use of the product he is aware of. We also draw the user's attention to the risks attached to any use of the product for applications for which it was not designed. 03/2006