

**MATERIAL SAFETY DATA SHEET**

Date Prepared : May 28. 2002

Date Revised : May 20. 2010

**1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

PRODUCT NAME : CMS-14  
MANUFACTURER  
Company Name : AGC SEIMI CHEMICAL CO., LTD.  
Address : 3-2-10 Chigasaki, Chigasaki-City, Kanagawa , 253-8585 Japan  
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Attn : In charge, Organic Materials General Div. Sales & Marketing Group  
Emergency Phone : +81-467-82-4398

**2. HAZARDS IDENTIFICATION**

## GHS CLASSIFICATION

Flammable liquids : Not classified  
Pyrophoric liquids : Not classified  
Acute toxicity (oral) : Category 4  
Skin corrosion / irritation : Category 2

SYMBOL:



SIGNAL WORD: Warning  
HAZARD STATEMENTS Harmful if swallowed  
Causes skin irritation

## PRECAUTIONARY STATEMENTS:

Prevention: Wash hands thoroughly after handling.  
Do not eat, drink and smoke when using this products.  
Wear protective gloves/eye protection/face protection.  
Response: IF SWALLOWED : Immediately call a doctor if you feel unwell.  
Rinse mouth.  
IF ON SKIN : Wash with plenty of soap and water.  
If skin irritation occurs: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
Disposal: Dispose of contents in accordance with local/regional/national/ international regulations.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

SUBSTANCE or MIXTURE : Substance  
CHEMICAL NAME : Vinylbenzyl chloride  
CHEMICAL FORMULA :  $\text{CH}_2=\text{CHC}_6\text{H}_4\text{CH}_2\text{Cl}$   
CONTENT (wt%) : >95%  
CAS Registry No. : 1592-20-7  
EINECS No. : 216-471-2

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**4. FIRST AID MEASURES**

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INHALATION	: Remove the victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.
SKIN CONTACT	: Remove contaminated clothes and shoes, rinse skin with plenty of water. Use soap to help assure removal. If irritation persists, consult a physician.
EYE CONTACT	: Remove any contact lenses at once. Flush with running water for at least 15 minutes. Seek medical attention.
INGESTION	: Rinse mouth thoroughly with water. Do not induce vomiting. Seek medical attention.
PROTECTION TO FIRST AIDERS	: Wear safety goggles, gloves and chemical cartridge respirator with organic vapour cartridge.

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**5. FIRE FIGHTING MEASURES**

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FLAMMABLE PROPERTIES	: Flammable liquid
EXTINGUISHING MEDIA	: Carbon dioxide, dry chemical powder, foam, dry sand. Use extinguishing media appropriate to surrounding fire conditions.
FIRE FIGHTING INSTRUCTIONS	: Hazardous toxic and irritating fumes or smoke (hydrogen fluoride, carbon monoxide, carbonyl fluoride) may be formed upon combustion. Firemen should wear proper protective equipment (safety goggles, gloves and chemical cartridge respirator with halogen gases cartridge).

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**6. ACCIDENTAL RELEASE MEASURES**

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PERSONAL PRECAUTIONS	: Remove ignition sources and ventilate area. Avoid contact with skin and eyes.
ENVIRONMENTAL PRECAUTIONS	: Prevent spills from entering sewers, watercourses or low areas.
SPILL RESPONSE	: For small spill, absorb spill with inert material (e.g. dry sand or earth). Deposit spilled material in appropriate waste container. For large spills, dike with inert material (e.g. dry sand or earth), then take up and place in a bag. Do not wash away into shower or waterway.

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**7. HANDLING AND STORAGE**

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HANDLING	: Use only in the well-ventilated areas. Do not breathe in gases. Avoid contact with skin or eyes. Handle material with suitable protection away from source of heat or ignition. Practice good personal hygiene after using this material. Especially before eating, drinking, smoking or using the toilet.
STORAGE	: Store away from sunlight, heat or steam pipe. Store in a cool, dry, well-ventilated location. Keep containers uprights and tightly closed when in not use. If product is not stored in the dark at temperatures below 20°C, hazardous polymerization may occur.

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**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

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**EXPOSURE LIMIT VALUES**

OSHA Final Limits : Not established

ACGIH : Not established

**ENGINEERING MEASURES** : Provide exhaust ventilation.

Ensure that eye wash station and safety shower are proximal to the workstation location.

**PERSONAL PROTECTION****RESPIRATORY PROTECTION** : Use chemical cartridge respirator with organic vapor cartridge.**EYE PROTECTION** : Use safety glasses.**HAND, SKIN AND BODY PROTECTION**

: Impervious clothing.

Chemical-resistant gloves, apron impervious boots.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE** : Yellow liquid**ODOUR** : Characteristic odour**BOILING POINT/BOILING RANGE** : 229°C**FLASH POINT** : 108°C**FLAMMABILITY** : Not available**SOLBILITY IN ORGANIC SOLVENTS** : Soluble**SOLBILITY IN ORGANIC WATER** : Insoluble**VAPOUR PRESSURE** : 133.32 Pa (56.1°C)**SPECIFIC GRAVITY** : 1.088

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**10. STABILITY AND REACTIVITY**

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**CONDITIONS TO AVOID** : Sunlight, heat, moisture, open flames, high temperature, sparks, static electrical charge, other ignition sources.**STABILITY** : If product is not stored in the dark at temperatures below 20°C, hazardous polymerization may occur.**MATERIAL TO AVOID** : Acid, alkali, oxidizer, a metal chloride, metal oxide, iron rust, iron, steel, stainless steel, heavy metal, silica, silicon grease, an active carbon**HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS**

: At the time of polymerization, hydrochloric acid occurs.

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**11. TOXICOLOGICAL INFORMATION**

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**ACUTE TOXICITY** : Oral LD<sub>50</sub> (Rat) = 960mg/kg**EYE IRRITATION** : Irritating to eyes.**SKIN IRRITATION** : Irritating to skin.

Repeated or prolonged contact may cause skin sensitization.

**SENSITIZATION** : Irritating to respiratory system.**CHRONIC TOXICITY** : No relevant information found.**MUTAGENICITY**

Ames test : positive (an estimate)

NOEL : Oral (rat) 100mg/Kg/Day

**CARCINOGENISITY** : No relevant information found.

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**12. ECOLOGICAL INFORMATION**

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**ECOTOXICITY** : Not available**MOBILITY** : Not available**PERSISTENCE AND DEGRADABILITY** : Not available**BIOACCUMULATIVE POTENTIAL** : Not available**OTHER ADVERSE EFFECTS** : Not available

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**13. DISPOSAL CONSIDERATION**

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Burn in a chemical incinerator equipped with an after burner and scrubber in accordance with all applicable regulations.

For a small quantity, absorb with waste, burn in appropriate incinerator.

Do not dump this product into sewers, on the ground or into any body of water.

Any disposal must be in compliance with country, local, state, and general laws and regulations (contact country, local or state environmental agency specific rules).

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**14. TRANSPORT INFORMATION**

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U.N. CLASS : Class 6.1

U.N. NUMBER : 2810

PACKING GROUP : P.G. III

Comply with all federal, state and local regulations.

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**15. REGULATORY INFORMATION**

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Follow all regulations in your country:

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**16. OTHER INFORMATION**

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REFERENCES : "International Chemical Safety Card"

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