# AkzoNobel Tomorrow's Answers Today

**Code: 28C1** 

### **Material Safety Data Sheet**

**Composite Pinhole Filler 28C1** 

Akzo Nobel Coatings Inc. encourages and expects you to read and understand this entire MSDS, as there is important information throughout the document. Further, Akzo Nobel Coatings Inc. expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

To promote safe handling, each customer or recipient should: 1) Notify its employees, agents, contractors, and others whom it knows or believes will use this material of the information contained in this MSDS and any other information regarding hazards and safety; 2) Furnish this same information to each of its customers for the product; 3) Request its customers to notify their employees, customers, and other users of the product of this information; and 4) Notify its employees, agents, contractors, and others that the precautions identified for this product and any other products with which mixtures may be created are transferable and cumulative to the mixture.

### Section 1. Chemical product and company identification

#### **Manufacturer**

Akzo Nobel Coatings, Inc. 1 East Water Street Waukegan, IL 60085 USA +1(847) 625-4200

IN CASE OF EMERGENCY (HEALTH OR SPILLS):

CHEMTREC 1 (800) 424-9300 (Inside the US)

CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)

Product code: 28C1

Product name: Composite Pinhole Filler 28C1

**Product use: Coatings or Coatings Component** 

MSDS #: 0021131A20

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For the most recent update to this Material Safety Data Sheet, visit our website at http://www.akzonobel.com/aerospace For additional information call (847) 625-4200.

### Section 2. Hazards identification

Emergency overview : WARNING!

FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. HARMFUL IF SWALLOWED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

Potential acute health effects

Inhalation : Irritating to respiratory system. Exposure to decomposition products may cause a

health hazard. Serious effects may be delayed following exposure.

Ingestion: Toxic if swallowed.Skin: Irritating to skin.Eyes: Irritating to eyes.

Potential chronic health effects

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### Section 2. Hazards identification

**Chronic effects** : Contains material that may cause target organ damage, based on animal data.

**Carcinogenicity** : Contains material which can cause cancer. Risk of cancer depends on duration and

level of exposure.

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 may cause damage to the following organs: kidneys, lungs,

liver, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea,

testes.

#### 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

Inhalation

: 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 toxicological information (Section 11)

### Section 3. Composition/information on ingredients

<u>Name</u>	CAS number	% by weight
crystalline silica respirable	14808-60-7	40 - 70
Stoddard solvent	8052-41-3	10 - 25
Ethene, chloro-, homopolymer	9002-86-2	10 - 25

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### Section 4. First aid measures

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

attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean

shoes thoroughly before reuse. Get medical attention immediately.

 Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion : 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.

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### Section 4. First aid measures

**Protection of first-aiders** 

: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician

: No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### Section 5. Fire-fighting measures

Flammability of the product

Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Extinguishing media** 

Suitable

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Not suitable

: Do not use water jet.

Special exposure hazards

: 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials:

carbon dioxide carbon monoxide

halogenated compounds

carbonyl halides metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special remarks on fire

: Not available.

hazards

: Not available.

Special remarks on explosion hazards

### Section 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

: 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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods for cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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#### Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 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. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Storage** 

Stoddard solvent

Ethene, chloro-, homopolymer

: Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

### Section 8. Exposure controls/personal protection

Product name Exposure limits

crystalline silica respirable OSHA PEL Z3 (United States, 9/2005).

TWA: 250 MPPCF / (%SiO2+5) 8 hours. Form: Respirable TWA: 10 MG/M3 / (%SiO2+2) 8 hours. Form: Respirable TWA: 30 MG/M3 / (%SiO2+2) 8 hours. Form: Total dust.

ACGIH TLV (United States, 3/2012).

TWA: 0.025 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction

NIOSH REL (United States, 6/2009).

TWA: 0.05 mg/m³ 10 hours. Form: respirable dust

ACGIH TLV (United States, 3/2012).

TWA: 525 mg/m<sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.

NIOSH REL (United States, 6/2009).

CEIL: 1800 mg/m³ 15 minutes. TWA: 350 mg/m³ 10 hours. OSHA PEL (United States, 6/2010).

TWA: 2900 mg/m³ 8 hours.

TWA: 500 ppm 8 hours.

ACGIH TLV (United States, 3/2012).

TWA: 1 mg/m³ 8 hours. Form: Respirable fraction

Consult local authorities for acceptable exposure limits.

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### Section 8. Exposure controls/personal protection

## 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. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Engineering measures**

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **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.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/ or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

#### **Personal protection**

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.

#### **Hands**

: 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

#### **Eyes**

: 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin

: 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.

When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

# Environmental exposure controls

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.

### Section 9. Physical and chemical properties

Physical state : Liquid

Flash point : Closed cup: 40.6°C (105.1°F)

Auto-ignition temperature: Not available.upper flammability limit: Not determined.Lower flammability limit: Not determined.

Appearance : White.

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### Section 9. Physical and chemical properties

Odor threshold : Solvent.

Not available.

Specific gravity : 1.421

pH : Not available.

Boiling/condensation point : 130°C (266°F)

Melting/freezing point : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Density : 11.86 lbs/gal 1.421 g/cm<sup>3</sup>

: Not determined. **Evaporation rate** Coefficient of water/oil distribution : Not determined. : 24.8% (w/w) **Weight Volatiles Volume Volatiles** 45.59 %(v/v) Weight Solids 75.20 %(w/w) **Volume Solids** 54.41 %(v/v) VOC, minus water and exempt solvents : 2.94 lbs/gal (352 g/l)

### Section 10. Stability and reactivity

**Stability** : The product is stable.

**Hazardous polymerization**: Under normal conditions of storage and use, hazardous polymerization will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

Materials to avoid : Reactive or incompatible with the following materials:

oxidizing materials

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

### Section 11. Toxicological information

#### **Acute toxicity**

products

Product/ingredient name	Result	Species	Dose
crystalline silica respirable	LDLo Intratracheal	Rat	250 mg/kg
	LDLo Intratracheal	Rat	>200 mg/kg
	LDLo Intravenous	Rat	90 mg/kg
	TDLo Intratracheal	Rat	150 mg/kg
	TDLo Intratracheal	Rat	100 mg/kg
	TDLo Intratracheal	Rat	50 mg/kg
	TDLo Intratracheal	Rat	30 mg/kg
	TDLo Intratracheal	Rat	25 mg/kg
	TDLo Intratracheal	Rat	15.69 mg/kg
	TDLo Intratracheal	Rat	10 mg/kg
	TDLo Intratracheal	Rat	5 mg/kg
	TDLo Intratracheal	Rat	1.5 mg/kg
	TDLo Intratracheal	Rat	1 mg/kg
	TDLo Intratracheal	Rat	1250 µg/kg
	TDLo Oral	Rat	120 g/kg
Stoddard solvent	LD Dermal	Rabbit	>3 g/kg
	LD Oral	Rat	>5 g/kg
Ethene, chloro-, homopolymer	TDLo Intratracheal	Rat	50 mg/kg

Not available. Not available.

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### Section 11. Toxicological information

**Irritation/Corrosion** 

Product/ingredient name Result Score Exposure **Observation Species** 

Stoddard solvent Eyes - Mild irritant 100 parts per Human

million

Eyes - Moderate Rabbit 24 hours 500 milligrams

irritant

**Carcinogenicity** 

Not available.

**Classification** 

Product/ingredient name **ACGIH EPA NTP OSHA IARC** NIOSH

crystalline silica respirable A2 Known to be a

> human carcinogen.

Stoddard solvent None. 3 Ethene, chloro-, homopolymer A4

**Mutagenicity** 

Not available.

**Teratogenicity** 

Conclusion/Summary : Not available.

Reproductive toxicity

Not available.

### **Section 12. Ecological information**

**Environmental effects** : Water polluting material. May be harmful to the environment if released in large

quantities.

**Aquatic ecotoxicity** : Not available. **Biodegradability** Not available.

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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### **Section 14. Transport information**

The transportation description provided below is based on a one gallon container shipped within the United States, by highway only.

UN number Proper shipping name Class Packing group Additional information

UN1263 PAINT 3 II

### Section 15. Other Regulatory Information and Pictograms

**United States** 

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

United States inventory (TSCA 8b)

: All components are listed or exempted.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Canada** 

WHMIS (Canada)

: Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**Canada inventory** 

: All components are listed or exempted.

International regulations
International lists

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

**Japan inventory**: All components are listed or exempted. **Korea inventory**: All components are listed or exempted.

Malaysia Inventory (EHS Register): At least one component is not listed.

New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): At least one component is not listed.

### Section 16. Other information



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### Section 16. Other information

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.