Material Safety Data Sheet

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1 . Product and company identification

Prepared For

Prepared by

Akzo Nobel Coatings Inc.
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IN CASE OF EMERGENCY (HEALTH OR SPILLS):

CHEMTREC (US and Canada) (800) 424-9300

Product no. : 09003
Product - Class : Cetol UV Interior
Material uses : Coatings: Varnish.
Customer Part Number :
Customer ShipTo ID :

2 . Hazards identification

Physical state : Liquid.

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

Emergency overview : WARNING !

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

Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation : Slightly irritating to the respiratory system.
Other effects of inhalation may include: anesthesia, CNS effects,

Ingestion : Toxic if swallowed.

Skin : Irritating to skin.
Other effects of skin contact may include: defatting, discoloration,
Effects due to absorption through skin may include: CNS effects,

Eyes : Irritating to eyes.
Other effects of eye contact may include : burning, redness, swelling, tearing,

Potential chronic health effects

CARCINOGENIC EFFECTS: Classified 2B (Possible for humans.) by IARC [styrene].
MUTAGENIC EFFECTS: No known significant effects or critical hazards.
TERATOGENIC EFFECTS: No known significant effects or critical hazards.

Target organs : Contains material which may cause damage to the following organs: lungs, liver, skin, central nervous system (CNS).

2 . Hazards identification

Medical conditions aggravated by over-exposure : skin disorders,

NOTICE: Reports have associated repeated and prolonged OVEREXPOSURE to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents of this package may be harmful or fatal.

See toxicological information (section 11)

3 . Composition/information on ingredients

Name	CAS number	% by weight	Vapor pressure	Exposure limits
synthetic amorphous silica	7631-86-9	5 - 10	Not available.	**OSHA PEL (United States).** TWA: 80 mg/m³ 8 hour(s). **ACGIH TLV (United States).** TWA: 10 mg/m³ 8 hour(s).
methoxy-methyl ethoxy propanol	34590-94-8	1 - 5	Not available.	**OSHA PEL (United States). Skin** TWA: 100 ppm 8 hour(s). **ACGIH TLV (United States). Skin** TWA: 100 ppm 8 hour(s). STEL: 150 ppm 15 minute(s).
butoxypropanols	5131-66-8	1 - 5	Not available.	
dipropylene glycol butyl ether	29911-28-2	1 - 5	0.0053 kPa (0.04 mm Hg)	
ethoxylated c12-14 alcohols	68439-50-9	1 - 5	Not available.	
styrene	100-42-5	0.1 - 1	0.6 kPa (4.5 mm Hg)	**OSHA PEL (United States).** CEIL: 200 ppm TWA: 100 ppm 8 hour(s). **ACGIH TLV (United States). Skin** TWA: 20 ppm 8 hour(s). STEL: 40 ppm 15 minute(s).

There are no ingredients or 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.

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 if symptoms occur.

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

Inhalation : Get medical attention immediately if symptoms occur. 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. 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.

Ingestion : Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. 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.

5 . Fire-fighting measures

Flammability of the product : In a fire or if heated, a pressure increase will occur and the container may burst.

Auto-ignition temperature : Not available.

Flash point : Closed cup: >93.333°C (>200°F) [Setaflash.]

Flammable limits : Not available.

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

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.

Hazardous combustion products : Decomposition products may include the following materials:
carbon oxides
nitrogen oxides
sulfur oxides
halogenated compounds

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 hazards : Not available.

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. Avoid breathing 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.

Large spill : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. 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.

Small spill : Stop leak if without risk. Move containers from spill area. 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 get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. 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

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.

Personal protection Selection of personal protective equipment (PPE) is to be established by the employer performing a PPE hazard assessment. In the U.S.A, OSHA requires completion of a documented PPE hazard assessment as described in 29 CFR 1910.132.

Respiratory : Use properly fitted respiratory protection 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.

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.

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.

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, gases or dusts.
Recommended: safety glasses with side-shields

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.

Other protection : Not available.

Personal protective equipment (Pictograms) :

9 . Physical and chemical properties

Physical state : Liquid.

Color : Not available.

Odor : Not available.

pH : 8 to 9

Boiling/condensation point : Not available.

Melting/freezing point : Not available.

Relative density : Not available.

Vapor density : Lighter than air

Volatility : 76.94% (v/v), 74.14% (w/w)

Odor threshold : Not available.

Evaporation rate : Highest known value: Less than 1. (water) compared with butyl acetate

Viscosity : Dynamic: 2500 to 3000 mPa·s (2500 to 3000 cP)

10 . Stability and reactivity

Stability : The product is stable, under normal conditions of storage and use.

Conditions to avoid : heat, open flame, sparks, light, allow air blanket above liquid, dusty conditions,

Materials to avoid : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products : Not available.

Hazardous polymerization : Will not undergo hazardous polymerization.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dipropylene glycol butyl ether	LD50 Dermal	Rabbit	5330 mg/kg	-
	LD50 Oral	Rat	1474 mg/kg	-
butoxypropanols	LD50 Dermal	Rabbit	3100 mg/kg	-
	LD50 Oral	Rat	4980 mg/kg	-
methoxy-methyl ethoxy propanol	LD50 Dermal	Rabbit	9500 mg/kg	-
	LD50 Oral	Rat	5130 mg/kg	-
synthetic amorphous silica	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5110 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>139 mg/m3	14 hours
styrene	LD50 Oral	Rat	2650 mg/kg	-
	LC50 Inhalation Vapor	Rat	11800 mg/m3	4 hours

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
styrene	Mortality	Acute EC50 4.7 mg/L	Daphnia	48 hours
	Population	Acute EC50 0.56 mg/L	Algae	48 hours
	Mortality	Acute LC50 10 mg/L	Fish	96 hours
	Mortality	Acute LC50 29 mg/L	Fish	96 hours
	Mortality	Acute LC50 4.02 mg/L	Fish	96 hours
	Mortality	Acute LC50 25.05 mg/L	Fish	96 hours

Conclusion/Summary : Not available.

Biodegradability

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.

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

14 . Transport information

Note: Information contained in this section may vary from the actual shipping description depending on quantity in containers, mode of shipment and use of exemptions.

14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		RQ: 25127.3lbs (11395.6kgs) [ammonia]
TDG Classification	Not regulated.	-	-	-		
IMDG Class	Not regulated.	-	-	-		
IATA-DGR Class	Not regulated.	-	-	-		

PG* : Packing group

15 . Regulatory information

United States

U.S. Federal regulations : **United States inventory (TSCA 8b):** All components in this product have been verified as being on the TSCA Inventory.

(HAPS) Clean Air Act (CAA) 112 regulated toxic substances: styrene

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements :	styrene	100-42-5	0.10 - 1.00

California Prop. 65

No products were found.

International regulations

International lists : All components of this product are on the CEPA DSL inventory.

** All values in this section reported as percentage by weight, unless otherwise specified.

16 . Other information

HMIS III ® Hazardous Material Information System (U.S.A.) :

Health	*	2
Flammability		1
Physical hazards		0
Personal protection		

Caution: HMIS III ® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risk, and 4 representing severe hazards or risk. Although HMIS III ® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS III ® ratings are to be used with a fully implemented HMIS III ® program. HMIS III ® is a registered mark of the National Paint & Coatings Association (NPCA).

The customer is responsible for determining the PPE code for this material.

Other special considerations : Not available.

Notice to reader

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous

16 . Other information

development. It is the user's responsibility to verify that this data sheet is current prior to using the product.