

# Material Safety Data Sheet

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.  
5555 Spalding Drive  
Norcross, GA 30092  
USA 1-800-618-1010

### Canadian Supplier

Akzo Nobel Coatings Ltd.  
110 Woodbine Downs Blvd.  
Unit #4 Etobicoke, Ontario  
Canada M9W 5S6 1-800-618-1010

**IN CASE OF EMERGENCY (HEALTH OR SPILLS):**

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

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

**Product code : 397741**

**Product name : WANDA XTR SLOW HARDENER**

**MSDS # : 397741WAN620EN33364**

**Date of issue : 6/22/2009.**

**Version : 1.01**

**Date of printing : 6/23/2009.**

For the most recent update to this Material Safety Data Sheet, visit our website at <http://www.akzonobelcarrefinishes.net>  
For additional information call our the Akzo Nobel Car Refinishes Techline at 1-800-618-1010.

## Section 2. Hazards identification

### Emergency overview

: DANGER!

FLAMMABLE LIQUID AND VAPOR. COMBUSTIBLE. MAY CAUSE SEVERE ALLERGIC RESPIRATORY REACTION. HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. POSSIBLE BIRTH DEFECT HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE BIRTH DEFECTS, BASED ON ANIMAL DATA.

### Potential acute health effects

#### Inhalation

: Irritating to respiratory system. May cause sensitization by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

#### Ingestion

: Toxic if swallowed.

#### Skin

: Toxic in contact with skin. Severely irritating to the skin.

#### Eyes

: Irritating to eyes.

### Potential chronic health effects

## Section 2. Hazards identification

- Chronic effects** : Contains material that may cause target organ damage, based on animal data. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : Contains material which may cause birth defects, based on animal data.
- 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: blood, kidneys, liver, mucous membranes, lymphatic system, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.

### Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
wheezing and breathing difficulties  
asthma
- 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 respiratory disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

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)

## Section 3. Composition/information on ingredients

### United States

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Hexamethylene diisocyanate, oligomers	28182-81-2	35 - 45
n-butyl acetate	123-86-4	10 - 25
cyclohexanone	108-94-1	5 - 10
2-methoxy-1-methylethyl acetate	108-65-6	5 - 10
2-butoxyethyl acetate	112-07-2	1 - 5
parachlorobenzotrifluoride	98-56-6	1 - 5
1,2,4-trimethylbenzene	95-63-6	1 - 5

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.
- Inhalation** : 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.
- 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** : 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.

## 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
carbonyl halides
- 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.

## 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).
- Methods for cleaning up**

## Section 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
- 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. 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). Use spark-proof tools and explosion-proof equipment. 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. Persons with a history of asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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** : 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

### United States

n-butyl acetate

### Exposure limits

#### **ACGIH TLV (United States, 1/2007).**

STEL: 200 ppm 15 minute(s).

TWA: 150 ppm 8 hour(s).

#### **NIOSH REL (United States, 12/2001).**

STEL: 950 mg/m<sup>3</sup> 15 minute(s).

STEL: 200 ppm 15 minute(s).

TWA: 710 mg/m<sup>3</sup> 10 hour(s).

TWA: 150 ppm 10 hour(s).

#### **OSHA PEL (United States, 11/2006).**

TWA: 710 mg/m<sup>3</sup> 8 hour(s).

TWA: 150 ppm 8 hour(s).

cyclohexanone

#### **ACGIH TLV (United States, 1/2007). Absorbed through skin.**

STEL: 50 ppm 8 hour(s).

TWA: 20 ppm 8 hour(s).

#### **NIOSH REL (United States, 12/2001). Absorbed through skin.**

## Section 8. Exposure controls/personal protection

	TWA: 100 mg/m <sup>3</sup> 10 hour(s).
	TWA: 25 ppm 10 hour(s).
	<b>OSHA PEL (United States, 11/2006).</b>
	TWA: 200 mg/m <sup>3</sup> 8 hour(s).
	TWA: 50 ppm 8 hour(s).
2-methoxy-1-methylethyl acetate	<b>AIHA WEEL (United States, 1/2007).</b>
	TWA: 50 ppm 8 hour(s).
2-butoxyethyl acetate	<b>ACGIH TLV (United States, 1/2007).</b>
	TWA: 20 ppm 8 hour(s).
	<b>NIOSH REL (United States, 12/2001).</b>
	TWA: 33 mg/m <sup>3</sup> 10 hour(s).
	TWA: 5 ppm 10 hour(s).
1,2,4-trimethylbenzene	<b>ACGIH TLV (United States, 1/2007).</b>
	TWA: 123 mg/m <sup>3</sup> 8 hour(s).
	TWA: 25 ppm 8 hour(s).
	<b>NIOSH REL (United States, 12/2001).</b>
	TWA: 125 mg/m <sup>3</sup> 10 hour(s).
	TWA: 25 ppm 10 hour(s).

### 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. 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/flattening 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.
- 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.
- 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.
- 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

<b>Physical state</b>	: Liquid.
<b>Flash point</b>	: Closed cup: 39°C (102.2°F)
<b>Auto-ignition temperature</b>	: Not available.
<b>Flammable limits</b>	: Not available.
<b>Appearance</b>	: Not available.
<b>Odor</b>	: Not available.
<b>Odor threshold</b>	: Not available.
<b>Specific gravity</b>	: 1
<b>pH</b>	: Not available.
<b>Boiling/condensation point</b>	: 56°C (132.8°F)
<b>Melting/freezing point</b>	: Not available.
<b>Vapor pressure</b>	: Not available.
<b>Vapor density</b>	: Heavier than air
<b>Density</b>	: 8.35 lbs per gal 1 g/cm <sup>3</sup>
<b>Weight Volatiles</b>	: 56.8% (w/w)
<b>Volume Volatiles</b>	: 62.97 % (v/v)
<b>Weight Solids</b>	: 43.20 % (w/w)
<b>Volume Solids</b>	: 37.03 % (v/v)
<b>VOC</b>	: 4.67 lbs per gal 560 (g/l).
<b>Dispersibility properties</b>	: Not dispersible in the following materials: cold water.

## Section 10. Stability and reactivity

<b>Stability</b>	: The product is stable.
<b>Hazardous polymerization</b>	: Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid</b>	: 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. Avoid exposure during pregnancy.
<b>Materials to avoid</b>	: Reactive or incompatible with the following materials: oxidizing materials
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Conditions of reactivity</b>	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge. Flammable in the presence of the following materials or conditions: oxidizing materials.

## Section 11. Toxicological information

### United States

#### Acute toxicity

<b>Product/ingredient name</b>	<b>Result</b>	<b>Species</b>	<b>Dose</b>
cyclohexanone	LD50 Dermal	Rabbit	1 mL/kg
	LD50 Intraperitoneal	Rat	1130 mg/kg
	LD50 Oral	Rat	1800 mg/kg
	LD50 Oral	Rat	1620 uL/kg
	LD50 Subcutaneous	Rat	2170 mg/kg
	LDLo Intravenous	Rat	568 mg/kg
2-butoxyethyl acetate	LD50 Dermal	Rabbit	1500 mg/kg
	LD50 Oral	Rat	2400 mg/kg
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg
	LD50 Oral	Rat	8532 mg/kg
n-butyl acetate	LD50 Dermal	Rabbit	>17600 mg/kg
	LD50 Oral	Rat	10768 mg/kg

## Section 11. Toxicological information

parachlorobenzotrifluoride	LC50 Inhalation Vapor	Rat	390 ppm
	LD50 Dermal	Rabbit	>2700 mg/kg
	LD50 Oral	Rat	>6800 mg/kg
1,2,4-trimethylbenzene	LD50 Oral	Rat	13 g/kg
	LC50 Inhalation Vapor	Rat	22000 mg/m <sup>3</sup>
	LD50 Oral	Rat	5 g/kg
	LDLo Intraperitoneal	Rat	1752 mg/kg

**Conclusion/Summary** : Not available.

### Chronic toxicity

**Conclusion/Summary** : Not available.

### Irritation/Corrosion

**Conclusion/Summary** : Not available.

### Sensitizer

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
n-butyl acetate	-	-	-	None.	-	-
cyclohexanone	A3	3	-	None.	-	-
2-butoxyethyl acetate	A3	-	-	None.	-	-
1,2,4-trimethylbenzene	-	-	-	None.	-	-

### Mutagenicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

## Section 12. Ecological information

**Environmental effects** : No known significant effects or critical hazards.

**Aquatic ecotoxicity** : Not available.

**Biodegradability** : Not available.

**Ecotoxicological data for one or more components are known and will be made available on request.**

## Section 13. Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. 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.**

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

## Section 14. Transport information

## Section 15. Regulatory information

### United States

**United States inventory (TSCA 8b)** : All components are listed or exempted.

### SARA 313

**Form R - Reporting requirements**

<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
2-butoxyethyl acetate	112-07-2	5.00
1,2,4-trimethylbenzene	95-63-6	1.01

**California Prop. 65**

: WARNING: This product contains a chemical known to the State of California to cause cancer.

### 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-1B: Material causing immediate and serious toxic effects (Toxic).  
 Class D-2A: Material causing other toxic effects (Very toxic).  
 Class D-2B: Material causing other toxic effects (Toxic).



**Canada inventory**

: All components are listed or exempted.

### EU regulations

**Hazard symbol or symbols** :



**Hazard symbol or symbols** :

Not available.

**Risk phrases**

R10- Flammable.  
 R43- May cause sensitization by skin contact.

**Safety phrases**

: S2- Keep out of the reach of children.  
 S24- Avoid contact with skin.  
 S37- Wear suitable gloves.  
 S46- If swallowed, seek medical advice immediately and show this container or label.

### International regulations

**International lists**

: **Australia inventory (AICS)**: All components are listed or exempted.  
**China inventory (IECSC)**: All components are listed or exempted.  
**Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Korea inventory (KECI)**: Not determined.  
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.  
**Philippines inventory (PICCS)**: Not determined.

## Section 16. Other information

### Notice to reader

**Section 16. Other information**

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.