AkzoNobel

# **SAFETY DATA SHEET**

#### **Grip-Gard BC Translucent Slow Reducer**

### Section 1. Identification

GHS product identifier Other means of identification	Grip-Gard BC Translucent Slow Reducer
Relevant identified uses of the	ubstance or mixture and uses advised against :FOR INDUSTRIAL USE ONLY
Supplier/Manufacturer	: Akzo Nobel Coatings, Inc. 1845 Maxwell Troy, MI, 48084 USA (800) 618-1010
Canadian Supplier	: Akzo Nobel Coatings Ltd. 110 Woodbine Downs Blvd. Unit #4 Etobicoke, Ontario Canada M9W 5S6 +1 (800) 618-1010
Emergency telephone number	: CHEMTREC +1 (800) 424-9300 (Inside the US) CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)
Date of issue / Date of revision Safety Data Sheet Version Date of printing	: 31 May 2016 : 16 : 31 May 2016

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 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -</li> </ul>

For additional information call the Akzo Nobel Car Refinishes Techline at 1-800-618-1010.

Section 2. Hazard	s identification
	Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
GHS label elements Hazard pictograms	
Signal word Hazard statements	<ul> <li>Danger</li> <li>Highly flammable liquid and vapor. Harmful if swallowed or if inhaled. Causes serious eye irritation. Causes skin irritation. Suspected of damaging the unborn child. May be fatal if swallowed and enters airways. Causes damage to organs. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

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# Section 3. Composition/information on ingredients

: Mixture

Substance/mixture

Ingredient name	%	CAS number
ethanol	25 - 30	64-17-5
xylene	15 - 20	1330-20-7
2-butoxyethanol	15 - 20	111-76-2
toluene	10 - 15	108-88-3
butan-1-ol	10 - 15	71-36-3
ethylbenzene	1 - 5	100-41-4
2-(2-butoxyethoxy)ethanol	1 - 5	112-34-5
Solvent naphtha (petroleum), medium aliph.	1 - 5	64742-88-7
methanol	1 - 5	67-56-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. Get medical attention. If necessary, call a poison center or physician. 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.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. 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.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
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Section 4. First ai	d measures
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
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.

See toxicological information (Section 11)

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Section 5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: Highly flammable liquid and vapor. 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: 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.
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. Accide	ntal release measures
Personal precautions, prote	ctive equipment and emergency procedures
For non-emergency	: No action shall be taken involving any personal risk or without suitable training.

For non-emergency personnel	<ul> <li>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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.</li> </ul>
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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 and materials for co	ntainment and 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.
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

### Section 6. Accidental release measures

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

Precautions for safe handling	
Protective measures	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. 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 only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	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. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	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. Store locked up. 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

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
ethanol	ACGIH TLV (United States, 3/2015).
	STEL: 1000 ppm 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 1900 mg/m <sup>3</sup> 10 hours.
	TWA: 1000 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 1900 mg/m <sup>3</sup> 8 hours.
	TWA: 1000 ppm 8 hours.
xylene	ACGIH TLV (United States, 3/2015).
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 2/2013).

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	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
2-butoxyethanol	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	TWA: 24 mg/m <sup>3</sup> 10 hours.
	TWA: 5 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	Absorbed through skin.
	TWA: 240 mg/m <sup>3</sup> 8 hours.
	TWA: 50 ppm 8 hours.
oluene	NIOSH REL (United States, 10/2013).
	STEL: 560 mg/m <sup>3</sup> 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m <sup>3</sup> 10 hours.
	TWA: 100 ppm 10 hours.
	OSHA PEL Z2 (United States, 2/2013).
	AMP: 500 ppm 10 minutes.
	CEIL: 300 ppm
	TWA: 200 ppm 8 hours.
	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
butan-1-ol	ACGIH TLV (United States, 3/2015).
	TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	Absorbed through skin.
	CEIL: 150 mg/m <sup>3</sup>
	CEIL: 50 ppm
	OSHA PEL (United States, 2/2013).
	TWA: 300 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2015).
enyibenzene	TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	STEL: 545 mg/m <sup>3</sup> 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 435 mg/m <sup>3</sup> 10 hours.
	TWA: 100 ppm 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
2-(2-butoxyethoxy)ethanol	ACGIH TLV (United States, 3/2015).
( )	TWA: 10 ppm 8 hours. Form: Inhalable
	fraction and vapor
Solvent naphtha (petroleum), medium aliph.	OSHA PEL (United States, 2/2013).
L /L	TWA: 100 ppm 8 hours.
	TWA: 400 mg/m <sup>3</sup> 8 hours.
nethanol	ACGIH TLV (United States, 3/2015).
	Absorbed through skin.
	STEL: 328 mg/m <sup>3</sup> 15 minutes.
	STEL: 250 ppm 15 minutes.
	TWA: 262 mg/m <sup>3</sup> 8 hours.

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	TWA: 200 ppm 8 bours
	TWA: 200 ppm 8 hours. NIOSH REL (United States, 10/2013). Absorbed through skin. STEL: 325 mg/m <sup>3</sup> 15 minutes. STEL: 250 ppm 15 minutes. TWA: 260 mg/m <sup>3</sup> 10 hours. TWA: 200 ppm 10 hours. OSHA PEL (United States, 2/2013). TWA: 260 mg/m <sup>3</sup> 8 hours. TWA: 200 ppm 8 hours.
Appropriate engineering controls	: 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.
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.
ndividual protection meas	res
Hygiene measures	<ul> <li>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.</li> <li>Appropriate techniques should be used to remove potentially contaminated clothing.</li> <li>Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.</li> </ul>
Eye/face protection	: 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should b worn at all times when handling chemical products if a risk assessment indicates this 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.
Body protection	: Personal protective equipment for the body should be selected based on the task beir 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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
	-

# Section 8. Exposure controls/personal protection

Respiratory protection	: 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.

# Section 9. Physical and chemical properties

-		
Appearance		
Physical state	:	Liquid.
Color	:	Not available.
Odor	:	NOT AVAILABLE. (CAPITAL-PERIOD)
Odor threshold	:	Not available.
рН	:	Not available.
Melting/freezing point	:	Not available.
Boiling point	:	65°C (149°F)
boiling range	:	Not available.
Flash point	:	Closed cup: 14°C (57.2°F)
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or exp	plo	osive limits
Upper:	:	Not determined.
Lower:	:	Not determined.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	0.841
Density	:	7.02 lbs/gal 0.841 g/cm <sup>3</sup>
Solubility	:	Not available.
Solubility in water	:	Not available.
Partition coefficient: n-	:	Not available.
octanol/water		Neterrale
Auto-ignition temperature	-	Not available. Not available.
Decomposition temperature	-	
Viscosity	•	Kinematic (room temperature): 0.12 cm²/s (12 cSt) Kinematic (40°C (104°F)): 0.07 cm²/s (7 cSt)
Weight Volatiles	:	100% (w/w)
Volume Volatiles	:	100 %(v/v)
Weight Solids	:	0.00 %(w/w)
Volume Solids	:	0.00 %(v/v)
Regulatory VOC	:	7.02 lbs/gal (841 g/l) minus water and exempt solvents

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Section 10. Stability and reactivity		
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions 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.	
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ethanol	LD50 Oral	Rat	7 g/kg	-
xylene	LD50 Oral	Rat	4300 mg/kg	-
toluene	LD50 Oral	Rat	636 mg/kg	-
butan-1-ol	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
-	LD50 Oral	Rat	3500 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Dermal	Rabbit	2700 mg/kg	-
( <b>)</b>	LD50 Oral	Rat	4500 mg/kg	-
methanol	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	0.0666666667 minutes 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
xylene	Eyes - Mild irritant	Rabbit	-	87 milligrams	-

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Section 11. Toxico	ological informati	on			
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
	Skin - Mild irritant	Rat	-	milligrams 8 hours 60	-
	Skin - Moderate irritant	Rabbit	-	microliters 24 hours 500	-
	Skin - Moderate irritant	Rabbit		milligrams 100 Percent	
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Severe irritant	Rabbit	-	milligrams 100	-
	Skin - Mild irritant	Rabbit	_	milligrams 500	_
				milligrams	
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100	-
	Eyes - Mild irritant	Rabbit	-	milligrams 870 Mierogramo	-
	Eyes - Severe irritant	Rabbit	-	Micrograms 24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Eyes - Severe irritant	Rabbit	-	0.005 Mililiters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
2-(2-butoxyethoxy)ethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	-	40 milligrams 24 hours 20 milligrams	-

**Sensitization** 

Not available.

**Mutagenicity** 

Not available.

**Carcinogenicity** 

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# Section 11. Toxicological information

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
ethanol	-	1	-
xylene	-	3	-
2-butoxyethanol	-	3	-
toluene	-	3	-
ethylbenzene	-	2B	-

### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
toluene butan-1-ol			Narcotic effects Respiratory tract irritation and Narcotic effects
methanol	Category 1	All	Not determined

#### Specific target organ toxicity (repeated exposure)

Name	 Route of exposure	Target organs
	 	Not determined
5	 	Not determined Not determined

#### Aspiration hazard

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

# Information on the likely : Not available. routes of exposure

Potential acute health	effects
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

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Section 11. Toxico	ological information
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.

# **Fertility effects** : No known significant effects or critical hazards.

#### Numerical measures of toxicity Acute toxicity estimates

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# Section 11. Toxicological information

Route	ATE value	
Oral	1356.3 mg/kg	
Dermal	2881.5 mg/kg	
Inhalation (gases)	10073.4 ppm	
Inhalation (vapors)	17.48 mg/l	
Inhalation (dusts and mists)	3.69 mg/l	

# Section 12. Ecological information

Toxicity			
Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia	48 hours
		franciscana - Larvae	
	Acute LC50 42000 μg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.375 ul/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes	48 hours
-		pugio	
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
2-butoxyethanol	Acute EC50 >1000 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
-	Acute LC50 800000 to 1000000 µg/l	Crustaceans - Crangon crangon	48 hours
	Marine water		
	Acute LC50 1250000 µg/l Marine water	Fish - Menidia beryllina	96 hours
butan-1-ol	Acute EC50 1983000 to 2072000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1910000 μg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2930 to 4400 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 40000 µg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
2-(2-butoxyethoxy)ethanol	Acute LC50 1300000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
methanol	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 to 4395 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

For additional information call the Akzo Nobel Car Refinishes Techline at 1-800-618-1010.

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## Section 12. Ecological information

Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
ethanol	-0.35	-	low
xylene	3.12	8.1 to 25.9	low
2-butoxyethanol	0.81	-	low
toluene	2.73	90	low
butan-1-ol	1	-	low
ethylbenzene	3.6	-	low
2-(2-butoxyethoxy)ethanol	1	-	low
methanol	-0.77	<10	low

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

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

### Section 13. Disposal considerations

<b>Disposal methods</b> 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.
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### Section 14. Transport information

Special precautions for user : The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment of the DOT information.
 Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the

upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

For additional information call the Akzo Nobel Car Refinishes Techline at 1-800-618-1010.

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# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard class(es)	3	3	3	3	3
Packing group			11		11
Environmental	Yes.	Yes.	No.	Yes.	No.
hazards	100.	100.		100.	

# Section 15. Regulatory information

#### U.S. Federal regulations

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

#### SARA 311/312

Classification

: Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard

#### SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	2-butoxyethanol toluene butan-1-ol ethylbenzene 2-(2-butoxyethoxy)ethanol	1330-20-7 111-76-2 108-88-3 71-36-3 100-41-4 112-34-5 67-56-1	15 - 20 15 - 20 10 - 15 10 - 15 1 - 5 1 - 5 1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### California Prop. 65

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

#### International lists

#### National inventory

For additional information call the Akzo Nobel Car Refinishes Techline at 1-800-618-1010.

To request an updated SDS please visit http://www.formstack.com/forms/AkzoNobel-document\_request\_form

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### Section 15. Regulatory information

Australia	: At least one component is not listed.
Canada	: All components are listed or exempted.
China	: At least one component is not listed.
Europe	: At least one component is not listed.
Japan	: At least one component is not listed.
Malaysia	: At least one component is not listed.
New Zealand	: At least one component is not listed.
Philippines	: At least one component is not listed.
Republic of Korea	: At least one component is not listed.
Taiwan	: At least one component is not listed.

### Section 16. Other information

#### Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		3
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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

#### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### <u>History</u>

Date of issue/Date of revision	:	31 May 2016
Version	:	16
MSDS #	:	000109 0002

For additional information call the Akzo Nobel Car Refinishes Techline at 1-800-618-1010.

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# Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
-	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,
	1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations

#### 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.