



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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1-(248)-637-0400

IN CASE OF EMERGENCY (HEALTH OR SPILLS):

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

Product no. : 16003

Product - Class : Log Pre-Treatment

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 ABSORBED THROUGH SKIN OR IF SWALLOWED. CAUSES SEVERE EYE IRRITATION. CAUSES RESPIRATORY TRACT AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or 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 : Irritating to respiratory system.

Other effects of inhalation may include: blood effects, CNS effects, depression, headache, kidney damage, liver damage, weakness,

Ingestion : Toxic if swallowed.

Other effects of ingestion may include : blood effects, CNS effects, gastric disturbances, kidney damage, liver damage, vomiting, weakness,

Skin : Toxic in contact with skin. Irritating to skin.

Other effects of skin contact may include: dehydration, dermatitis, discoloration, Effects due to absorption through skin may include: blood effects, weakness,

Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

Other effects of eye contact may include : eye damage, redness, tearing,

Potential chronic health effects

2. Hazards identification

CARCINOGENIC EFFECTS: No known significant effects or critical hazards.
 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: blood, kidneys, the reproductive system, liver, bone marrow, central nervous system (CNS).

Medical conditions aggravated by over-exposure : Not available.

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
linseed oil	8001-26-1	25 - 35	Not available.	
2-butoxyethanol	111-76-2	10 - 25	0.088 kPa (0.66 mm Hg)	OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s). ACGIH TLV (United States). TWA: 20 ppm 8 hour(s).
glycol ethers	1 - 5	Not available.	ACGIH TLV (United States). Skin TWA: 5 ppm 8 hour(s).
iodo-propynyl butyl carbamate	55406-53-6	1 - 5	Not available.	
aliphatic alcohol	1 - 5	Not available.	

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 : Get medical attention immediately if symptoms occur. 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. Chemical burns must be treated promptly by a physician.

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

4 . First aid measures

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.
DANGER - Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Waste should be understood to include contaminated articles, including spray booth filters and strippings.
- Auto-ignition temperature** : Not available.
- Flash point** : Closed cup: >98.889°C (>210°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
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.

7 . Handling and storage

- 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/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.
- 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** : Not available.
- Boiling/condensation point** : Not available.
- Melting/freezing point** : Not available.
- Relative density** : Not available.
- Vapor density** : Lighter than air
- Volatility** : Not available.

9 . Physical and chemical properties

Odor threshold	: Not available.
Evaporation rate	: Highest known value: Less than 1. (water) compared with butyl acetate
Viscosity	: Not available.

10 . Stability and reactivity

Stability	: The product is stable, under normal conditions of storage and use.
Conditions to avoid	: heat, open flame, sparks, dusty conditions, drying out,
Materials to avoid	: Reactive or incompatible with the following materials: oxidizing materials, metals, 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
2-butoxyethanol	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Oral	Rat	470 mg/kg	-
	LC50 Inhalation Vapor	Rat	450 ppm	4 hours
iodo-propynyl butyl carbamate	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	1056 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	680 mg/m ³	4 hours

12 . Ecological information

Environmental effects : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
2-butoxyethanol	Mortality	Acute LC50 1490 mg/L	Fish	96 hours
	-	Acute LC50 1250000 ug/L Marine water	Fish - Menidia beryllina	96 hours
	-	Acute LC50 1490000 ug/L Fresh water	Fish - Lepomis macrochirus	96 hours
iodo-propynyl butyl carbamate	Intoxication	Acute EC50 0.956 mg/L	Daphnia	48 hours
	Intoxication	Acute EC50 0.16 mg/L	Daphnia	48 hours
	-	Acute EC50 956 to 1109 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	-	Acute EC50 0.16 to 0.17 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Mortality	Acute LC50 0.072 mg/L	Fish	96 hours
	Mortality	Acute LC50 0.067 mg/L	Fish	96 hours
	-	Acute LC50 95 to 100 ppb Marine water	Fish - Oncorhynchus kisutch	96 hours
	-	Acute LC50 72 to 83 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	-	Acute LC50 67 to 79 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	-	Acute LC50 40 to 55 ppb	Daphnia -	48 hours

12 . Ecological information

	Fresh water	Daphnia magna	
Mortality	Acute LC50 0.2 mg/L	Fish	96 hours
-	Acute LC50 100 ppb	Fish -	96 hours
	Fresh water	Oncorhynchus mykiss	
-	Acute LC50 0.2 to 0.23 ppm Fresh water	Fish - Pimephales promelas	96 hours
Mortality	Acute LC50 0.1 mg/L	Fish	96 hours
-	Acute LC50 67 to 89 ug/L Fresh water	Fish -	96 hours
		Oncorhynchus mykiss	
-	Chronic NOEC <10 ppb Fresh water	Daphnia -	48 hours
		Daphnia magna	

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.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		RQ: 15549.4lbs (7051.88kgs) [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: glycol ethers

SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
Form R - Reporting requirements	2-butoxyethanol	111-76-2	10.00 - 15.00
	glycol ethers	3.00 - 7.00
	iodo-propynyl butyl carbamate	55406-53-6	1.00 - 3.00

15 . Regulatory information

California Prop. 65

No products were found.

International regulations

International lists : This product contains one or more components that are NOT listed 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 development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

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