

# Material Safety Data Sheet

## L823070 TOFFEE ON MAPLE SPRAY STAIN

### 1. Product and company identification

<b>Code</b>	: L823070
<b>Synonym</b>	: TOFFEE ON MAPLE SPRAY STAIN
<b>Material uses</b>	: Coatings: Surface coatings and finishes.
<b>Manufacturer</b>	: Akzo Nobel Wood Coatings Ltd. 155 Rose Glen Road North P.O. Box 458 Port Hope, ON. Canada L1A 3V6
<b>In case of emergency</b>	: (905) 885-6388, (800) 263-7951
<b>Transportation</b>	: CANUTEC (613) 996-6666
<b>Emergency telephone number</b>	

### 2. Hazardous ingredients

<b>Name</b>	<b>CAS number</b>	<b>%</b>
Acetone	67-64-1	50 - 75
Cyclohexyl ketone	108-94-1	10 - 15
Propylene glycol monomethyl ether	107-98-2	5 - 10
Isobutyl acetate	110-19-0	5 - 10
Ethyl Acetate	141-78-6	1 - 5
Acrylic ester oligomer		1 - 5
Ethyl alcohol	64-17-5	1 - 5
Titanium dioxide	13463-67-7	0 - 1

Trace impurities and additional material names not listed above may appear in other sections of this MSDS. These materials may be listed for toxicological concerns, local compliance, or other reasons.

\* Toxicological information, if available, is listed in section 11

### 3. Hazards identification

<b>Physical state</b>	: Liquid.
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Routes of entry</b>	: Dermal contact. Eye contact. Inhalation. Ingestion.
<b>Effects of Acute Exposure</b>	: Do not ingest. Do not get in eyes or on skin or clothing. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.
<b>Potential chronic health effects</b>	: <b>CARCINOGENIC EFFECTS:</b> Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for humans or animals.) by EPA [2-Propanone]. Classified 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanol, 1-methoxy-]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Acetic Acid, Ethyl Ester]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified 2B (Possible for humans.) by IARC [Titanium dioxide (TiO <sub>2</sub> )]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Titanium dioxide (TiO <sub>2</sub> )]. <b>MUTAGENIC EFFECTS:</b> Not available. <b>TERATOGENIC EFFECTS:</b> Classified None. for humans [2-Propanone].
<b>Medical conditions aggravated by over-exposure</b>	: Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

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## 4. First aid measures

- Eye contact** : Get medical attention immediately. 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.
- Skin contact** : Get medical attention immediately. Flush contaminated skin with plenty of water. Continue to rinse for at least 10 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. 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.
- 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.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

## 5. Fire-fighting measures

- Flammability of the product** : Flammable.
- Products of combustion** : These products are carbon oxides (CO, CO<sub>2</sub>).
- Extinguishing media**
- Suitable** : Use an extinguishing agent suitable for the surrounding fire.
  - Not suitable** : None known.
- Special exposure hazards** : No specific hazard.
- Special Remarks on Fire Hazards** : FLAMMABLE. (2-Propanone)
- 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.
- Fire Hazards in Presence of Various Substances** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.  
Slightly flammable in the presence of the following materials or conditions: oxidizing materials.
- Explosion Hazards in Presence of Various Substances** : Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge.

## 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

## 7. Handling and storage

- Handling** : Do not ingest. Do not get in eyes or on skin or clothing. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

## 8. Exposure controls/personal protection

### Product name

Acetic Acid, Ethyl Ester

### Exposure limits

**ACGIH TLV (United States).**

TWA: 400 ppm 8 hour/hours.

TWA: 400 ppm

Titanium dioxide (TiO<sub>2</sub>)**OSHA (United States).**CEIL: 20 mg/m<sup>3</sup>**OSHA PEL (United States).**TWA: 15 mg/m<sup>3</sup> 8 hour/hours.

### Consult local authorities for acceptable exposure limits.

- Engineering measures** : Use only with adequate ventilation. If user operations generate dust, fumes, 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.

### Personal protection



- 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.
- 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.
- 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.
- 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.

## 9. Physical and chemical properties

- Physical state** : Liquid.
- Flash point** : The lowest known value is Closed cup: -18°C (-0.4°F). (T.C.C. ). (2-Propanone)
- Auto-ignition temperature** : The lowest known value is 287°C (548.6°F) (2-Propanol, 1-methoxy-).
- Flammable limits** : The greatest known range is Lower: 3.3% Upper: 19% (Ethanol)
- pH** : Neutral.
- Boiling/condensation point** : The lowest known value is 56.2°C (133.2°F) (2-Propanone). Weighted average: 81.7°C (179.1°F)
- Melting/freezing point** : May start to solidify at -32.1°C (-25.8°F) based on data for: Cyclohexanone. Weighted average: -86.64°C (-124°F)
- Relative density** : 0.8482 (Water = 1)
- Vapor pressure** : The highest known value is 24.1 kPa (181 mm Hg) (at 20°C) (2-Propanone). Weighted average: 16.13 kPa (120.98 mm Hg) (at 20°C)
- Vapor density** : The highest known value is 1.59 (Air = 1) (Ethanol). Weighted average: 2.43 (Air = 1)
- Evaporation rate** : The highest known value is 7.5 (Acetic Acid, Ethyl Ester) Weighted average: 3.6 compared with Butyl acetate.

## 9 . Physical and chemical properties

- Dispersibility properties** : Partially dispersible in methanol, diethyl ether.  
Not dispersible in cold water, hot water.  
See solubility in methanol, diethyl ether, n-octanol, acetone.
- Solubility** : Easily soluble in methanol, diethyl ether, acetone.  
Partially soluble in n-octanol.  
Insoluble in cold water, hot water.

## 10 . Stability and reactivity

- Stability and reactivity** : The product is stable.
- Conditions of instability** : Avoid contact with oxidizing agents. (Acrylated oligomer)
- Incompatibility with various substances** : Reactive or incompatible with the following materials: oxidizing materials and alkalis.  
Slightly reactive or incompatible with the following materials: reducing materials, metals and acids.

## 11 . Toxicological information

### Toxicity data

<u>Product/ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
2-Propanone	LD50	5800 mg/kg	Oral	Rat
	LD50	3000 mg/kg	Oral	Mouse
	LD50	20000 mg/kg	Dermal	Rabbit.
	LC50	50100 mg/m <sup>3</sup> (8 hour/hours)	Inhalation	Rat
	LC50	44000 mg/m <sup>3</sup> (4 hour/hours)	Inhalation	Mouse
Cyclohexanone	LD50	1540 mg/kg	Oral	Rat
	LD50	950 mg/kg	Dermal	Rabbit
	LC50	8000 mg/l (4 hour/hours)	Inhalation	Rat
Acetic Acid, Ethyl Ester	LD50	5620 mg/kg	Oral	Rat
	LD50	4100 mg/kg	Oral	Mouse
	LD50	4935 mg/kg	Oral	Rabbit
	LC50	45000 mg/m <sup>3</sup> (2 hour/hours)	Inhalation	Mouse
	LC50	16000 ppm (6 hour/hours)	Inhalation	Rat
Ethanol	LD50	7060 mg/kg	Oral	Rat.
	LC50	8000 mg/l (4 hour/hours)	Inhalation	Rat.
Titanium dioxide (TiO <sub>2</sub> )	LD50	>24000 mg/kg	Oral	Rat

- Chronic effects on humans** : **CARCINOGENIC EFFECTS:** Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanone]. Classified D (Not classifiable for humans or animals.) by EPA [2-Propanone]. Classified 4 (Probably not for humans.) by IARC, None. by OSHA [2-Propanol, 1-methoxy-]. Classified A5 (Not suspected for humans.) by ACGIH, 4 (Probably not for humans.) by IARC [Acetic Acid, Ethyl Ester]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Ethanol]. Classified 2B (Possible for humans.) by IARC [Titanium dioxide (TiO<sub>2</sub>)]. Classified A4 (Not classifiable for humans or animals.) by ACGIH [Titanium dioxide (TiO<sub>2</sub>)].  
**TERATOGENIC EFFECTS:** Classified None. for humans [2-Propanone].  
Contains material which causes damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, eyes.

## 11 . Toxicological information

- Other toxic effects on humans** : Very hazardous in case of ingestion, of inhalation.  
Slightly hazardous in case of skin contact (permeator).
- Special remarks on chronic effects on humans** : Exposure can cause coughing, chest pains, difficulty in breathing. (2-Propanol, 1-methoxy-)
- Special remarks on other toxic effects on humans** : Material is irritating to mucous membranes and upper respiratory tract. (2-Propanone)
- Specific effects**
- Carcinogenic effects** : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure.
- Mutagenic effects** : No known significant effects or critical hazards.
- Teratogenicity / Reproductive toxicity** : No known significant effects or critical hazards.

## 12 . Ecological information

- Environmental precautions** : No known significant effects or critical hazards.
- Octanol/water partition coefficient** : The product is more soluble in octanol.
- Bioconcentration factor** : Not available.
- Products of degradation** : These products are carbon oxides (CO, CO<sub>2</sub>) and water.
- Toxicity of the products of biodegradation** : The products of degradation are less toxic than the product itself.

## 13 . Disposal considerations


- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

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

## 14 . Transport information

Regulatory information	UN number	Class	PG*	Label
TDG Classification	1263 PAINT	3	II	

PG\* : Packing group

## 15 . Regulatory information

### United States

**HCS Classification** : Highly toxic material  
Carcinogen  
Target organ effects

**U.S. Federal regulations** : SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notification: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetic Acid, Ethyl Ester: Fire hazard, Immediate (acute) health hazard; Acetic acid, 2-methylpropyl ester: Fire hazard, Immediate (acute) health hazard  
Clean Water Act (CWA) 307: No products were found.  
Clean Water Act (CWA) 311: No products were found.  
Clean Air Act (CAA) 112 accidental release prevention: No products were found.  
Clean Air Act (CAA) 112 regulated flammable substances: No products were found.  
Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

**State regulations** : **WARNING:** This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Carbon Black  
**WARNING:** This product contains chemical/chemicals known to the state of California to cause cancer.: Carbon Black  
New York release reporting list: Acetic Acid, Ethyl Ester  
Rhode Island RTK hazardous substances: Acetic Acid, Ethyl Ester  
Pennsylvania RTK: Acetic Acid, Ethyl Ester; 2-Propanol, 1-methoxy-; Acetic acid, 2-methylpropyl ester; Ethanol; Isopropyl alcohol  
Florida: Acetic Acid, Ethyl Ester  
Minnesota: Acetic Acid, Ethyl Ester; Ethanol  
Massachusetts RTK: Acetic Acid, Ethyl Ester; 2-Propanol, 1-methoxy-; Acetic acid, 2-methylpropyl ester; Ethanol; Isopropyl alcohol  
New Jersey: Acetic Acid, Ethyl Ester; 2-Propanol, 1-methoxy-; Acetic acid, 2-methylpropyl ester; Ethanol; Isopropyl alcohol  
TSCA 8(b) inventory: Acetic Acid, Ethyl Ester; 2-Hydroxy-2-Methyl-1-Phenyl-1-Propanone; Acetic acid, 2-methylpropyl ester; Ethanol; Isopropyl alcohol  
TSCA 5(a)2 final significant rules: 40CFR721.3850 SNUR  
TSCA 5(e) substance consent order: Acetic Acid, Ethyl Ester  
TSCA 12(b) annual export notification: Acetic Acid, Ethyl Ester  
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Acetic Acid, Ethyl Ester: Fire hazard, Immediate (acute) health hazard; Acetic acid, 2-methylpropyl ester: Fire hazard, Immediate (acute) health hazard  
CERCLA: Hazardous substances.: Acetone; Cyclohexanone; Acetic Acid, Ethyl Ester; Acetic acid, 2-methylpropyl ester;

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
Acetic acid, 2-methylpropyl ester	No.	No.	No.	No.
Acetic Acid, Ethyl Ester	No.	No.	No.	No.
Carbon Black	Yes.	No.	No.	No.

### Canada

**WHMIS (Canada)** : Class B-2: Flammable liquid  
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).

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.**

## 16 . Other information

**Label requirements** : EXTREMELY FLAMMABLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FLASH FIRE.  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:  
BLOOD, KIDNEYS, LUNGS, REPRODUCTIVE SYSTEM, LIVER, EYES.  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.  
POSSIBLE CANCER HAZARD.  
CONTAINS MATERIAL WHICH MAY CAUSE CANCER, BASED ON ANIMAL DATA.

**Hazardous Material  
Information System (U.S.A)** :

Health	*	1
Fire hazard		3
Reactivity		0
Personal protection		G

\* Indicates may be chronic effects

**National Fire Protection  
Association (U.S.A)** :



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### 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.