



## TOUCAN C401 4:1 CLEAR

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

### SECTION 1: IDENTIFICATION

- 1.1 GHS Product identifier:** TOUCAN C401 4:1 CLEAR
- Other means of identification:**  
Not applicable (N/A)
- 1.2 Recommended use of the chemical and restrictions on use:**  
Relevant uses: Paints and varnishes. For professional users only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:**  
Logicar Inc.  
1361 NW 155th DR  
FL 33169 Miami - USA  
Phone: 1-888-815-2278  
sales@toucanrefinishes.com  
[https:// www.toucanrefinishes.com](https://www.toucanrefinishes.com)
- 1.4 Emergency phone number:** +1(703)527-3887

### SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**29 CFR 1910.1200:**  
Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.  
Carc. 2: Carcinogenicity, Category 2, H351  
Eye Irrit. 2A: Eye irritation, Category 2A, H319  
Flam. Liq. 2: Flammable liquids, Category 2, H225  
Skin Irrit. 2: Skin irritation, Category 2, H315  
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317  
STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336  
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335
- 2.2 Label elements:**  
**29 CFR 1910.1200:**  
**Danger**
- 
- Hazard statements:**  
H225 - Highly flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.  
H351 - Suspected of causing cancer.
- Precautionary statements:**  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P232: Protect from moisture.  
P234: Keep only in original container.  
P235+P410: Keep cool. Protect from sunlight.  
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.  
P403+P233: Store in a well-ventilated place. Keep container tightly closed.  
P501: Dispose of contents/ container in accordance with local/regional/national/international regulation.

- CONTINUED ON NEXT PAGE -



## TOUCAN C401 4:1 CLEAR

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

### SECTION 2: HAZARD(S) IDENTIFICATION (continued)

#### Substances that contribute to the classification

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene; methyl acetate; N-butyl acetate; Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

#### Additional labeling:



#### WARNING

This product can expose you to chemicals including 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene, which is [are] known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### 2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances:

Non-applicable

#### 3.2 Mixtures:

**Chemical description:** Mixture composed of chemical products

#### Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 98-56-6	<b>4-chloro-<math>\alpha,\alpha,\alpha</math>-trifluorotoluene</b> Carc. 2: H351; Eye Irrit. 2A: H319; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	30 - <40 %
CAS: 79-20-9	<b>methyl acetate</b> Eye Irrit. 2A: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	15 - <25 %
CAS: 123-86-4	<b>N-butyl acetate</b> Flam. Liq. 3: H226; STOT SE 3: H336 - Warning	5 - <15 %
CAS: Non-applicable	<b>Hydroxyphenyl benzotriazol derivative</b> Skin Sens. 1: H317 - Warning	<1 %
CAS: Non-applicable	<b>Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b> Skin Sens. 1A: H317 - Warning	<1 %
CAS: 26761-45-5	<b>2,3-epoxypropyl neodecanoate</b> Muta. 2: H341; Skin Sens. 1: H317 - Warning	<1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### SECTION 4: FIRST-AID MEASURES

#### 4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

#### By skin contact:

- CONTINUED ON NEXT PAGE -



## TOUCAN C401 4:1 CLEAR

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

### SECTION 4: FIRST-AID MEASURES (continued)

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms/effects, acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary:**

Not applicable (N/A)

### SECTION 5: FIRE-FIGHTING MEASURES

**5.1 Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:**

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

**Unsuitable extinguishing media:**

Water jet

**5.2 Specific hazards arising from the chemical:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Special protective equipment and precautions for fire-fighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

**Additional provisions:**

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

**6.3 Methods and materials for containment and cleaning up:**

For accidental releases in excess of reportable quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Specific storage requirements

Minimum Temp.: 41 °F  
Maximum Temp.: 86 °F  
Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**Other information:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Protect from moisture. Keep only in original container. Keep cool. Protect from sunlight.

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be assessed in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Identification	Occupational exposure limits		
	8-hour TWA PEL	200 ppm	610 mg/m <sup>3</sup>
methyl acetate CAS: 79-20-9	Ceiling Values - TWA PEL		
N-butyl acetate CAS: 123-86-4	8-hour TWA PEL	150 ppm	710 mg/m <sup>3</sup>
	Ceiling Values - TWA PEL		



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
methyl acetate CAS: 79-20-9	TLV-TWA	200 ppm	
	TLV-STEL	250 ppm	
N-butyl acetate CAS: 123-86-4	TLV-TWA	20 ppm	
	TLV-STEL		

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:


Identification	Occupational exposure limits		
methyl acetate CAS: 79-20-9	PEL	200 ppm	610 mg/m <sup>3</sup>
	STEL	250 ppm	760 mg/m <sup>3</sup>
N-butyl acetate CAS: 123-86-4	PEL	150 ppm	710 mg/m <sup>3</sup>
	STEL	200 ppm	950 mg/m <sup>3</sup>

**8.2 Appropriate engineering controls:**


A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection


Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR)

C.- Specific protection for the hands


Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: PVC)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer's use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	For professional use only. Clean periodically according to the manufacturer's instructions.


- CONTINUED ON NEXT PAGE -





**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019      Revised: 4/19/2024      Version: 3 (Replaced 2)

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

Pictogram	PPE	Remarks
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	Replace boots at any sign of deterioration.

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

VOC Regulatory:  
V.O.C. at 68 °F: 2.72 Ibs/gal (325.5 g/L)

VOC Actual:  
V.O.C. at 68 °F: 1.24 Ibs/gal (148.4 g/L)

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

**Appearance:**

Physical state at 68 °F: Liquid  
 Appearance: Fluid  
 Color: Colorless  
 Odor: Characteristic  
 Odour threshold: Not applicable (N/A) \*

**Volatility:**

Boiling point at atmospheric pressure: 209 °F  
 Vapour pressure at 68 °F: 10960 Pa  
 Vapour pressure at 122 °F: 38289.1 Pa (38.29 kPa)  
 Evaporation rate at 68 °F: Not applicable (N/A) \*

**Product description:**

Density at 68 °F: 1113 kg/m<sup>3</sup>  
 Relative density at 68 °F: 1.113  
 Dynamic viscosity at 68 °F: Not applicable (N/A) \*  
 Kinematic viscosity at 68 °F: Not applicable (N/A) \*  
 Kinematic viscosity at 104 °F: Not applicable (N/A) \*  
 Concentration: Not applicable (N/A) \*  
 pH: Not applicable (N/A) \*  
 Vapour density at 68 °F: Not applicable (N/A) \*  
 Partition coefficient n-octanol/water 68 °F: Not applicable (N/A) \*  
 Solubility in water at 68 °F: Not applicable (N/A) \*  
 Solubility properties: Not applicable (N/A) \*  
 Decomposition temperature: Not applicable (N/A) \*

\*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

Melting point/freezing point: Not applicable (N/A) \*

**Flammability:**

Flash Point: 63 °F

Flammability (solid, gas): Not applicable (N/A) \*

Autoignition temperature: 790 °F

Lower flammability limit: Not available

Upper flammability limit: Not available

**Particle characteristics:**

Median equivalent diameter: Non-applicable

**9.2 Other information:**

**Information with regard to physical hazard classes:**

Explosive properties: Not applicable (N/A) \*

Oxidising properties: Not applicable (N/A) \*

Corrosive to metals: Not applicable (N/A) \*

Heat of combustion: Not applicable (N/A) \*

Aerosols-total percentage (by mass) of flammable components: Not applicable (N/A) \*

**Other safety characteristics:**

Surface tension at 68 °F: Not applicable (N/A) \*

Refraction index: Not applicable (N/A) \*

\*Not applicable (N/A) due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

**10.5 Incompatible materials:**

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

- CONTINUED ON NEXT PAGE -



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

**A- Ingestion (acute effect):**

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

**B- Inhalation (acute effect):**

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

**C- Contact with the skin and the eyes (acute effect):**

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

**D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):**

- Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.  
IARC: 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene (2B); Methyl methacrylate (3); Hydrocarbons, C9, aromatics (3)
- Mutagenicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous with mutagenic effects. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**E- Sensitizing effects:**

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

**F- Specific target organ toxicity (STOT) - single exposure:**

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

**G- Specific target organ toxicity (STOT)-repeated exposure:**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Repeated exposure may cause skin dryness or cracking

**H- Aspiration hazard:**

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not applicable (N/A)

**Specific toxicology information on the substances:**

Identification	Acute toxicity		Genus
	LD50 oral	LD50 dermal	
N-butyl acetate CAS: 123-86-4	LD50 oral	12789 mg/kg	Rat
	LD50 dermal	14112 mg/kg	Rabbit
	LC50 inhalation	23.4 mg/L (4 h)	Rat
methyl acetate CAS: 79-20-9	LD50 oral	6482 mg/kg	Rat
	LD50 dermal	18684 mg/kg	Guinean pig
	LC50 inhalation	75 mg/L (4 h)	Rabbit
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene CAS: 98-56-6	LD50 oral	13000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

- CONTINUED ON NEXT PAGE -





**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

Identification	Acute toxicity		Genus
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: Non-applicable	LD50 oral	3230 mg/kg	Rat
	LD50 dermal	3170 mg/kg	Rabbit
	LC50 inhalation		
2,3-epoxypropyl neodecanoate CAS: 26761-45-5	LD50 oral	970000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation		

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**12.1 Ecotoxicity (aquatic and terrestrial, where available):**

**Acute toxicity:**

Identification	Concentration		Species	Genus
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene CAS: 98-56-6	LC50	3 mg/L (96 h)	Danio rerio	Fish
	EC50	2 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Not applicable (N/A)		
methyl acetate CAS: 79-20-9	LC50	320 mg/L (96 h)	Pimephales promelas	Fish
	EC50	1026.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	120 mg/L (72 h)	Scenedesmus subspicatus	Algae
N-butyl acetate CAS: 123-86-4	LC50	Not applicable (N/A)		
	EC50	Not applicable (N/A)		
	EC50	675 mg/L (72 h)	Scenedesmus subspicatus	Algae
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: Non-applicable	LC50	0.9 mg/L (96 h)	Danio rerio	Fish
	EC50	Not applicable (N/A)		
	EC50	1.7 mg/L (72 h)	N/A	Algae
2,3-epoxypropyl neodecanoate CAS: 26761-45-5	LC50	5 mg/L (96 h)	Salmo gairdneri	Fish
	EC50	4.8 mg/L (96 h)	Daphnia magna	Crustacean
	EC50	3 mg/L (72 h)	Selenastrum capricornutum	Algae

**Chronic toxicity:**

Identification	Concentration		Species	Genus
N-butyl acetate CAS: 123-86-4	NOEC	Not applicable (N/A)		
	NOEC	23.2 mg/L	Daphnia magna	Crustacean
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: Non-applicable	NOEC	Not applicable (N/A)		
	NOEC	1 mg/L	Daphnia magna	Crustacean

**12.2 Persistence and degradability:**

**Substance-specific information:**

Identification	Degradability		Biodegradability	
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene CAS: 98-56-6	BOD5	Not applicable (N/A)	Concentration	57.71 mg/L
	COD	Not applicable (N/A)	Period	28 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	19.2 %
methyl acetate CAS: 79-20-9	BOD5	Not applicable (N/A)	Concentration	100 mg/L
	COD	Not applicable (N/A)	Period	14 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	92 %

- CONTINUED ON NEXT PAGE -



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

Identification	Degradability		Biodegradability	
	Parameter	Value	Parameter	Value
N-butyl acetate CAS: 123-86-4	BOD5	Not applicable (N/A)	Concentration	Not applicable (N/A)
	COD	Not applicable (N/A)	Period	5 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	84 %
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: Non-applicable	BOD5	Not applicable (N/A)	Concentration	20 mg/L
	COD	Not applicable (N/A)	Period	28 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	38 %
2,3-epoxypropyl neodecanoate CAS: 26761-45-5	BOD5	Not applicable (N/A)	Concentration	3 mg/L
	COD	Not applicable (N/A)	Period	28 days
	BOD5/COD	Not applicable (N/A)	% Biodegradable	7 %

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

Identification	Bioaccumulation potential	
	Parameter	Value
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene CAS: 98-56-6	BCF	122
	Pow Log	3.7
	Potential	High
methyl acetate CAS: 79-20-9	BCF	0.8
	Pow Log	0.18
	Potential	Low
N-butyl acetate CAS: 123-86-4	BCF	4
	Pow Log	1.78
	Potential	Low
2,3-epoxypropyl neodecanoate CAS: 26761-45-5	BCF	371
	Pow Log	4.4
	Potential	High

**12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
	Parameter	Value	Parameter	Value
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene CAS: 98-56-6	Koc	487.5	Henry	Not applicable (N/A)
	Conclusion	Moderate	Dry soil	Not applicable (N/A)
	Surface tension	2.144E-2 N/m (-459.67 °F)	Moist soil	Not applicable (N/A)
methyl acetate CAS: 79-20-9	Koc	Not applicable (N/A)	Henry	Not applicable (N/A)
	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	2.454E-2 N/m (77 °F)	Moist soil	Not applicable (N/A)
N-butyl acetate CAS: 123-86-4	Koc	Not applicable (N/A)	Henry	Not applicable (N/A)
	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	2.478E-2 N/m (77 °F)	Moist soil	Not applicable (N/A)
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: Non-applicable	Koc	204400	Henry	0E+0 Pa·m <sup>3</sup> /mol
	Conclusion	Immobile	Dry soil	No
	Surface tension	Not applicable (N/A)	Moist soil	No
2,3-epoxypropyl neodecanoate CAS: 26761-45-5	Koc	143	Henry	Not applicable (N/A)
	Conclusion	High	Dry soil	Not applicable (N/A)
	Surface tension	Not applicable (N/A)	Moist soil	Not applicable (N/A)

**12.5 Results of PBT and vPvB assessment:**

Non-applicable



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 12: ECOLOGICAL INFORMATION (continued)**

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Disposal methods:**

The next characteristic per RCRA could apply to the unused product if it becomes a waste material: Ignitability. The next EPA hazardous waste number could apply: D001.

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

**Waste management (disposal and evaluation):**

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

**Regulations related to waste management:**

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to 49 CFR on the Transport of Dangerous Goods:



**14.1 UN number:** UN1263

**14.2 UN proper shipping name:** PAINT

**14.3 Transport hazard class(es):** 3

Labels: 3

**14.4 Packing group, if applicable:** II

**14.5 Marine pollutant:** Yes

**14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**

Physico-Chemical properties: see section 9

Limited quantities: 5 L

Under 49 CFR 171.4, Except when transporting aboard a vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicles, rail cars, and aircraft

**14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:

- CONTINUED ON NEXT PAGE -



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 14: TRANSPORT INFORMATION (continued)**



- 14.1 UN number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3  
Labels: 3
- 14.4 Packing group, if applicable:** II
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Special regulations: 367, 163  
EmS Codes: F-E, S-E  
Physico-Chemical properties: see section 9  
Limited quantities: 5 L  
Segregation group: Not applicable (N/A)
- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:



- 14.1 UN number:** UN1263
- 14.2 UN proper shipping name:** PAINT
- 14.3 Transport hazard class(es):** 3  
Labels: 3
- 14.4 Packing group, if applicable:** II
- 14.5 Marine pollutant:** Yes
- 14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises**  
Physico-Chemical properties: see section 9
- 14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable (N/A)

**SECTION 15: REGULATORY INFORMATION**

- 15.1 Safety, health and environmental regulations specific for the product in question:**

- CONTINUED ON NEXT PAGE -



**TOUCAN C401 4:1 CLEAR**

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

**SECTION 15: REGULATORY INFORMATION (continued)**

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Not applicable (N/A)
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: *4-chloro-a,a,a-trifluorotoluene (98-56-6)*
- CANADA-Domestic Substances List (DSL): *4-chloro-a,a,a-trifluorotoluene (98-56-6)*; *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*; *2,3-epoxypropyl neodecanoate (26761-45-5)*
- CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *N-butyl acetate (123-86-4)* - 5000 lb
- Hazardous Air Pollutants (Clean Air Act): Not applicable (N/A)
- Massachusetts RTK - Substance List: *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*
- Minnesota - Hazardous substances ERTK: *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*
- New Jersey Worker and Community Right-to-Know Act: *4-chloro-a,a,a-trifluorotoluene (98-56-6)*; *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*
- New York RTK - Substance list: *4-chloro-a,a,a-trifluorotoluene (98-56-6)*; *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*
- NTP (National Toxicology Program): Not applicable (N/A)
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Not applicable (N/A)
- Pennsylvania Worker and Community Right-to-Know Law: *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*
- Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: *4-chloro-a,a,a-trifluorotoluene (98-56-6)*; *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*
- Rhode Island - Hazardous substances RTK: *N-butyl acetate (123-86-4)*
- The Toxic Substances Control Act (TSCA) : *4-chloro-a,a,a-trifluorotoluene (98-56-6)*; *methyl acetate (79-20-9)*; *N-butyl acetate (123-86-4)*; *2,3-epoxypropyl neodecanoate (26761-45-5)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): Not applicable (N/A)

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

**Other legislation:**

Take into consideration other applicable federal, state, and local laws and local regulations.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

**Texts of the legislative phrases mentioned in section 2:**

- H336: May cause drowsiness or dizziness.
- H335: May cause respiratory irritation.
- H315: Causes skin irritation.
- H351: Suspected of causing cancer.
- H317: May cause an allergic skin reaction.
- H225: Highly flammable liquid and vapour.
- H319: Causes serious eye irritation.

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**29 CFR 1910.1200:**

- Carc. 2: H351 - Suspected of causing cancer.
- Eye Irrit. 2A: H319 - Causes serious eye irritation.
- Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
- Flam. Liq. 3: H226 - Flammable liquid and vapour.
- Muta. 2: H341 - Suspected of causing genetic defects.
- Skin Irrit. 2: H315 - Causes skin irritation.
- Skin Sens. 1: H317 - May cause an allergic skin reaction.
- Skin Sens. 1A: H317 - May cause an allergic skin reaction.
- STOT SE 3: H335 - May cause respiratory irritation.
- STOT SE 3: H336 - May cause drowsiness or dizziness.

**Advice related to training:**

- CONTINUED ON NEXT PAGE -



Safety data sheet  
according to 29 CFR 1910.1200

## TOUCAN C401 4:1 CLEAR

Date of compilation: 8/29/2019

Revised: 4/19/2024

Version: 3 (Replaced 2)

### SECTION 16: OTHER INFORMATION (continued)

According to 29 CFR 1910.1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

**Principal bibliographical sources:**

Occupational Safety & Health Administration (OSHA).

**Abbreviations and acronyms:**

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

CL50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

IARC: International Agency for Research on Cancer

Date of compilation: 8/29/2019

Revised: 4/19/2024

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END OF SAFETY DATA SHEET