

## SAFETY DATA SHEET

LV Matt Effect Low Gloss Clear

### Section 1. Identification

**GHS product identifier** : LV Matt Effect Low Gloss Clear  
**SDS code** : 044495

#### Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Industrial use
Uses advised against
All other uses

#### Supplier's details

Akzo Nobel Coatings, Inc.  
1845 Maxwell  
Troy, MI, 48084  
USA  
(800) 618-1010

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110 Woodbine Downs Blvd.  
Unit #4 Etobicoke, Ontario  
Canada M9W 5S6  
+1 (800) 618-1010

**Emergency telephone number (with hours of operation)** : CHEMTREC +1 (800) 424-9300 (Inside the US)  
CHEMTREC International +1 (703) 527-3887 (Outside the US, collect calls accepted)

### 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** : FLAMMABLE LIQUIDS - Category 3  
SKIN SENSITISATION - Category 1  
CARCINOGENICITY - Category 1A  
REPRODUCTIVE TOXICITY - Category 2

#### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapour.  
May cause an allergic skin reaction.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.

#### Precautionary statements

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Section 2. Hazards identification

Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, sparks and hot surfaces. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Avoid breathing vapour. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 or international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	$\geq 25 - \leq 50$	98-56-6
n-butyl acetate	$\leq 10$	123-86-4
benzyl alcohol	$\leq 3$	100-51-6
4-hydroxy-4-methylpentan-2-one	$\leq 3$	123-42-2
ethyl 3-ethoxypropionate	$\leq 3$	763-69-9
ethanol	$< 1$	64-17-5
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	$\leq 1$	41556-26-7
Hydroxyphenyl-benzotriazole derivatives	$\leq 1$	104810-48-2
Polymeric Benzotriazole	$\leq 1$	104810-47-1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	$\leq 0.3$	82919-37-7

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 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.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.

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## Section 4. First aid measures

- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. 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. Get medical attention. 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** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Firefighting 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** : Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
halogenated compounds  
carbonyl halides  
metal oxide/oxides

**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. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**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 spilt 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 material for containment 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 the 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 same hazard as the spilt 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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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 ingest. Avoid breathing vapour or mist. 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. Ensure spraying away from persons. Avoid inhalation of vapour, spray or mist. 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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene n-butyl acetate	None. <b>NIOSH REL (United States, 10/2020).</b> STEL: 950 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 710 mg/m <sup>3</sup> 10 hours. TWA: 150 ppm 10 hours. <b>OSHA PEL (United States, 5/2018).</b> TWA: 710 mg/m <sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. <b>OSHA PEL 1989 (United States, 3/1989).</b> STEL: 950 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes. TWA: 710 mg/m <sup>3</sup> 8 hours. TWA: 150 ppm 8 hours. <b>ACGIH TLV (United States, 1/2022). [Butyl acetates]</b> STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
benzyl alcohol	<b>OARS WEEL (United States, 1/2021).</b> TWA: 10 ppm 8 hours.
4-hydroxy-4-methylpentan-2-one	<b>ACGIH TLV (United States, 1/2022).</b> TWA: 238 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours. <b>NIOSH REL (United States, 10/2020).</b> TWA: 240 mg/m <sup>3</sup> 10 hours.

## Section 8. Exposure controls/personal protection

ethyl 3-ethoxypropionate  
ethanol

TWA: 50 ppm 10 hours.  
**OSHA PEL (United States, 5/2018).**  
TWA: 240 mg/m<sup>3</sup> 8 hours.  
TWA: 50 ppm 8 hours.  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 240 mg/m<sup>3</sup> 8 hours.  
TWA: 50 ppm 8 hours.

None.  
**ACGIH TLV (United States, 1/2022).**  
STEL: 1000 ppm 15 minutes.  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 1000 ppm 8 hours.  
TWA: 1900 mg/m<sup>3</sup> 8 hours.  
**NIOSH REL (United States, 10/2020).**  
TWA: 1000 ppm 10 hours.  
TWA: 1900 mg/m<sup>3</sup> 10 hours.  
**OSHA PEL (United States, 5/2018).**  
TWA: 1000 ppm 8 hours.  
TWA: 1900 mg/m<sup>3</sup> 8 hours.

bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate  
Hydroxyphenyl-benzotriazole derivatives  
Polymeric Benzotriazole  
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

None.  
None.  
None.  
None.

### 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, vapour 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.

### Individual protection measures

#### 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### 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: safety glasses with side-shields.

#### Skin protection

##### Hand protection

: 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. 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.

## Section 8. Exposure controls/personal protection

<b>Body protection</b>	: 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
<b>Other skin protection</b>	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

<b>Physical state</b>	: Liquid.
<b>Colour</b>	: Colourless.
<b>Odour</b>	: Not available.
<b>Odour threshold</b>	: Not available.
<b>pH</b>	: Not applicable. [DIN EN 1262]
<b>Melting point/freezing point</b>	: Not available.
<b>Boiling point, initial boiling point, and boiling range</b>	: 117°C (242.6°F)
<b>Flash point</b>	: Closed cup: 35°C (95°F) [Pensky-Martens]
<b>Flammability</b>	: Not available.
<b>Lower and upper explosion limit</b>	: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
<b>Vapour pressure</b>	:

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
n-butyl acetate	11.25	1.5	DIN EN 13016-2			
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	5.3	0.71				
ethyl 3-ethoxypropionate	1.73	0.23				

<b>Relative vapour density</b>	: Not available.
<b>Relative density</b>	: 1.212 [ISO 8130-2/-3]
<b>Solubility(ies)</b>	:
Not available.	
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	:

Ingredient name	°C	°F	Method
ethyl 3-ethoxypropionate	377	710.6	EU A.15
n-butyl acetate	415	779	
benzyl alcohol	436	816.8	

<b>Decomposition temperature</b>	: Not available.
<b>Viscosity</b>	: Kinematic: 74 mm <sup>2</sup> /s (74 cSt) [DIN EN ISO 3219]



## Section 9. Physical and chemical properties and safety characteristics

(***To be Translated***) Weight Volatiles	: 64.08% (w/w)
(***To be Translated****) Volume Volatiles	: 64.61 % (v/v)
(***To be Translated****) Weight Solids	: 35.92 % (w/w)
(***To be Translated****) Volume Solids	: 35.39 % (v/v)
(****To Be Translated****) Regulatory VOC	: 2.7 lbs/gal 328 g/l minus water and exempt solvents
VOC Actual	: 1.5 lbs/gal 182 g/l

### Particle characteristics

Median particle size	: Not applicable.
Percentage of particles with aerodynamic diameter ≤ 10 µm	: 0

## 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 pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidising 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
4-chloro-α,α,α-trifluorotoluene	LD50 Oral	Mouse	11500 mg/kg	-
	LD50 Oral	Rat	13 g/kg	-
	LC50 Inhalation Gas.	Rat	390 ppm	4 hours
		Mouse	6 g/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapour	Rat	390 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Intraperitoneal	Mouse	1230 mg/kg	-
	LD50 Oral	Guinea pig	4700 mg/kg	-
	LD50 Oral	Mouse	6 g/kg	-
	LD50 Oral	Rabbit	3200 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	10768 mg/kg	-
	LC50 Inhalation Vapour	Rat	1000 ppm	8 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Dermal	Rabbit	2000 mg/kg	-

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4-hydroxy-4-methylpentan-2-one	LD50 Intra-arterial	Rat	441 mg/kg	-
	LD50 Intraperitoneal	Mouse	650 mg/kg	-
	LD50 Intraperitoneal	Rat	400 mg/kg	-
	LD50 Intravenous	Mouse	324 mg/kg	-
	LD50 Intravenous	Rat	53 mg/kg	-
	LD50 Oral	Guinea pig	2500 mg/kg	-
	LD50 Oral	Guinea pig	2500 mg/kg	-
	LD50 Oral	Mouse	1360 mg/kg	-
	LD50 Oral	Mouse	1360 mg/kg	-
	LD50 Oral	Rabbit	1040 mg/kg	-
	LD50 Oral	Rabbit	1040 mg/kg	-
	LD50 Oral	Rat	1.5 mL/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
	LD50 Oral	Rat	1230 mg/kg	-
	LD50 Oral	Rat	1660 mg/kg	-
	LD50 Dermal	Rabbit	13500 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Intraperitoneal	Mouse	933 mg/kg	-
	LD50 Oral	Mouse	3950 mg/kg	-
	LD50 Oral	Mouse	3000 mg/kg	-
	LD50 Oral	Rat	2520 mg/kg	-
	LD50 Oral	Rat	4000 mg/kg	-
	LD50 Dermal	Rabbit	10 mL/kg	-
ethanol	LD50 Oral	Rat	5 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
	LC50 Inhalation Gas.	Mouse	>40000 ppm	10 minutes
	LC50 Inhalation Gas.	Mouse	>60000 ppm	1 hours
	LC50 Inhalation Gas.	Rat	20000 ppm	10 hours
	LC50 Inhalation Vapour	Mouse	39000 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapour	Rat	124700 mg/m <sup>3</sup>	4 hours
	LC50 Inhalation Vapour	Rat	5900 mg/m <sup>3</sup>	6 hours
	LD50 Intra-arterial	Rat	11 mg/kg	-
	LD50 Intraperitoneal	Guinea pig	3414 mg/kg	-
	LD50 Intraperitoneal	Mouse	4 mL/kg	-
	LD50 Intraperitoneal	Mouse	528 mg/kg	-
	LD50 Intraperitoneal	Rabbit	963 mg/kg	-
	LD50 Intraperitoneal	Rat	3600 µg/kg	-
	LD50 Intravenous	Mouse	2.8 mL/kg	-
	LD50 Intravenous	Mouse	1973 mg/kg	-
	LD50 Intravenous	Rabbit	2374 mg/kg	-
	LD50 Intravenous	Rat	1440 mg/kg	-
	LD50 Oral	Guinea pig	5560 mg/kg	-
	LD50 Oral	Mouse	10.5 mL/kg	-
	LD50 Oral	Mouse	3450 mg/kg	-
	LD50 Oral	Rabbit	6300 mg/kg	-
	LD50 Oral	Rat	7 g/kg	-
	LD50 Oral	Rat	7060 mg/kg	-
	LD50 Oral	Rat	15010 mg/kg	-
	LD50 Subcutaneous	Mouse	8285 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
benzyl alcohol	Skin - Moderate irritant	Rabbit	-	24 hours 100 mg	-
4-hydroxy-4-methylpentan-2-one	Eyes - Severe irritant	Rabbit	-	24 hours 100 UI	-
	Eyes - Severe irritant	Rabbit	-	20 mg	-
ethyl 3-ethoxypropionate	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-

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ethanol	Eyes - Mild irritant	Rabbit	-	mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 500	-
	Eyes - Moderate irritant	Rabbit	-	mg	-
				100 UI	-
				0.066666667	-
				minutes 100	-
	Eyes - Severe irritant	Rabbit	-	mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
	Skin - Moderate irritant	Rabbit	-	400 mg	-
				24 hours 20	-
				mg	-

**Sensitisation**  
Not available.

**Mutagenicity**  
Not available.

**Carcinogenicity**  
Not available.

**Classification**

Product/ingredient name	OSHA	IARC	NTP
ethanol	-	1	-

**Reproductive toxicity**  
Not available.

**Teratogenicity**  
Not available.

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

Name	Category	Route of exposure	Target organs
n-butyl acetate	Category 3	-	Narcotic effects
4-hydroxy-4-methylpentan-2-one	Category 3	-	Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**  
Not available.

**Aspiration hazard**  
Not available.

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : No specific data.

## Section 11. Toxicological information

- Inhalation** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced foetal weight  
increase in foetal deaths  
skeletal malformations

### Delayed and immediate effects as well as 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 effects

Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging fertility or the unborn child.

### Numerical measures of toxicity

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Product as-supplied	10204.3	N/A	N/A	N/A	30.6
benzyl alcohol	500	N/A	N/A	N/A	1.5

## Section 12. Ecological information

### Toxicity

## Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
n-butyl acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 62000 µg/l Fresh water	Fish - Danio rerio	96 hours
	Acute LC50 100000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 185000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
benzyl alcohol	Acute LC50 10000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 15000 µg/l Marine water	Fish - Menidia beryllina	96 hours
	Acute LC50 460000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
4-hydroxy-4-methylpentan-2-one	Acute LC50 420000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 420000 µg/l Marine water	Fish - Menidia beryllina	96 hours
ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 7640 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute EC50 12.9 g/L Fresh water	Fish - Pimephales promelas	96 hours
	Acute EC50 12800 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 5577000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 3715000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 6076000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 5680 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 9268000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 9248000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 11000000 µg/l Marine water	Fish - Alburnus alburnus	96 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Acute LC50 12720 ppm Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 14 ppm Fresh water	Algae - Eutreptiella sp.	96 hours
	Chronic NOEC 350 ppm Fresh water	Algae - Heterosigma akashiwo	96 hours
	Chronic NOEC 50 µl/L Marine water	Algae - Hormosira banksii - Gamete	72 hours
	Chronic NOEC 20 ppm Fresh water	Algae - Prorocentrum minimum	96 hours
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 100 µl/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.375 µl/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

### Persistence and degradability

Not available.

### Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
n-butyl acetate	2.3	-	low
benzyl alcohol	0.87	-	low
4-hydroxy-4-methylpentan-2-one	-0.14 to 1.03	-	low
ethyl 3-ethoxypropionate	1.47	-	low
ethanol	-0.35	-	low

Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : Not available.








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

Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

The information provided in section 14 is based on a bulk package shipment via ground transport in North America. All shippers are responsible for ensuring the proper transportation classification and package/container requirements are followed for the relevant mode of transport.

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3 	3  	3 	3  	3 
Packing group	III	III	III	III	III
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.	Marine Pollutant (s): 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	Yes. The environmentally hazardous substance mark is not required.

Additional information

## Section 14. Transport information

<b>TDG Classification</b>	: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.
<b>IMDG</b>	: <b>Emergency schedules F-E, _S-E_</b> The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
<b>IATA</b>	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
<b>Special precautions for user</b>	: <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
<b>Transport in bulk according to IMO instruments</b>	: Not available.

## Section 15. Regulatory information

<b>U.S. Federal regulations</b>	: <b>TSCA 5(a)2 final significant new use rules:</b> No products found. <b>TSCA 5(e) substance consent order:</b> No products found. <b>TSCA 8(a) PAIR:</b> 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene; 4-hydroxy-4-methylpentan-2-one <b>TSCA 8(a) CDR Exempt/Partial exemption:</b> Not determined <b>United States inventory (TSCA 8b):</b> All components are active or exempted. <b>Clean Water Act (CWA) 311:</b> n-butyl acetate
<b>Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)</b>	: Listed
<b>Clean Air Act Section 602 Class I Substances</b>	: Not listed
<b>Clean Air Act Section 602 Class II Substances</b>	: Not listed
<b>DEA List I Chemicals (Precursor Chemicals)</b>	: Not listed
<b>DEA List II Chemicals (Essential Chemicals)</b>	: Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 3  
SKIN SENSITISATION - Category 1  
CARCINOGENICITY - Category 1A  
REPRODUCTIVE TOXICITY - Category 2

#### Composition/information on ingredients

## Section 15. Regulatory information

Name	%	Classification
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene	$\geq 25$ - $\leq 50$	FLAMMABLE LIQUIDS - Category 3 SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2
n-butyl acetate	$\leq 10$	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) - Category 3
benzyl alcohol	$\leq 3$	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A
4-hydroxy-4-methylpentan-2-one	$\leq 3$	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A REPRODUCTIVE TOXICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3
ethyl 3-ethoxypropionate	$\leq 3$	FLAMMABLE LIQUIDS - Category 3
ethanol	$< 1$	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	$\leq 1$	SKIN SENSITISATION - Category 1
Hydroxyphenyl-benzotriazole derivatives	$\leq 1$	SKIN SENSITISATION - Category 1
Polymeric Benzotriazole	$\leq 1$	SKIN SENSITISATION - Category 1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	$\leq 0.3$	SKIN SENSITISATION - Category 1

### State regulations

<b>Massachusetts</b>	: The following components are listed: BUTYL ACETATE; PRECIPITATED SILICA; BENZYL ALCOHOL; DIACETONE ALCOHOL
<b>New York</b>	: The following components are listed: Butyl acetate
<b>New Jersey</b>	: The following components are listed: n-BUTYL ACETATE; SILICA, AMORPHOUS, PRECIPITATE & GEL; DIACETONE ALCOHOL; ETHYL ALCOHOL
<b>Pennsylvania</b>	: The following components are listed: ACETIC ACID, BUTYL ESTER; PRECIPITATED SILICA; BENZENEMETHANOL; 2-PENTANONE, 4-HYDROXY-4-METHYL-

### California Prop. 65

 **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Ingredient name	No significant risk level	Maximum acceptable dosage level	Type of toxicity
4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene methanol	Yes. -	- Yes.	Cancer Developmental

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory:</b> Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL):</b> At least one component is not listed. <b>Japan inventory (ISHL):</b> Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.



## Section 15. Regulatory information

Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: Not determined.

## 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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 3	On basis of test data
SKIN SENSITISATION - Category 1	Calculation method
CARCINOGENICITY - Category 1A	Calculation method
REPRODUCTIVE TOXICITY - Category 2	Calculation method

### History

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**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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 N/A = Not available  
 SGG = Segregation Group  
 UN = United Nations

Indicates information that has changed from previously issued version.

### Notice to reader

FOR PROFESSIONAL USE ONLY

**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 this product must determine for themselves, by preliminary tests or otherwise, the suitability of this product for their purposes. 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 Safety 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. The application, use and processing of AkzoNobel's products and the products manufactured by Buyer on the basis of AkzoNobel's technical advice are beyond

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Section 16. Other information

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