

3610 MICROMAX™ THINNER COMP

Version	Revision Date:	SDS Number:	Date of last issue: 04-12-2024
8.0	07-22-2025	300000000151	Date of first issue: 01-29-2024

SECTION 1. IDENTIFICATION

Product name : 3610 MICROMAX™ THINNER COMP

Product code : 000000000027045696

Manufacturer or supplier's details

Company name of supplier	: Celanese Ltd. Irving Texas
Address	: 222 West Las Colinas Boulevard Suite 900N Irving TX 75039
Telephone	: '+1 972-443-4000
Emergency telephone number	: DOMESTIC NORTH AMERICA: 800-424-9300 INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

Recommended use of the chemical and restrictions on use

Recommended use	: For industrial use only. Electrical/electronic industries Solvent
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SECTION 2. HAZARDS IDENTIFICATION**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 4

Other hazards

None known.

GHS label elements

Signal word : Warning

Hazard statements : H227 Combustible liquid.

Precautionary statements	: Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Storage: P403 Store in a well-ventilated place. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

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Components

Chemical name	CAS-No.	Concentration (% w/w)
(2-Methoxymethylethoxy)propanol	34590-94-8	>= 80 - <= 100

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

- | | |
|---|---|
| If inhaled | : If inhaled, remove to fresh air.
If breathing is difficult, give oxygen.
If not breathing, give artificial respiration.
Get medical attention. |
| In case of skin contact | : Wash off with plenty of water.
Wash contaminated clothing before re-use.
Get medical attention if irritation develops and persists. |
| In case of eye contact | : Immediately flush eyes for at least 15 minutes. Get medical attention. |
| If swallowed | : Do NOT induce vomiting.
Call a physician or poison control centre immediately. |
| Most important symptoms and effects, both acute and delayed | : None known. |

SECTION 5. FIREFIGHTING MEASURES

- | | |
|---|---|
| Suitable extinguishing media | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Dry sand
Dry chemical
Alcohol-resistant foam |
| Specific hazards during fire-fighting | : Hazardous decomposition products formed under fire conditions.
(see also section 10)
Avoid breathing decomposition products. |
| Further information | : Evacuate personnel to safe areas.
Stop spill/release if it can be done with minimal risk.
Do not allow run-off from fire fighting to enter drains or water courses. |
| Special protective equipment for firefighters | : Exposure to decomposition products may be a hazard to health.
Wear self-contained breathing apparatus for firefighting if nec- |

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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.
Wear suitable protective equipment.
Dispose of in accordance with local regulations.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
Prevent product from entering drains.
Clean contaminated floors and objects thoroughly while observing environmental regulations.
- Methods and materials for containment and cleaning up : Contain spill.
Soak up with inert absorbent material.
Collect and contain contaminated absorbent and dike material for disposal.
Keep in suitable, closed containers for disposal.
Ventilate the area.
Clean contaminated surface thoroughly.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from heat and sources of ignition.
Avoid formation of aerosol.
- Advice on safe handling : Avoid breathing vapours or mist.
Keep away from heat and flame.
Do not use in areas without adequate ventilation.
- Conditions for safe storage : Store at room temperature in the original container.
Keep away from sources of ignition - No smoking.
Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.
Keep container closed when not in use.
Do not reuse empty container.
- Further information on storage stability : Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
(2-Methoxymethylethoxy)propanol	34590-94-8	TWA	100 ppm 600 mg/m ³	NIOSH REL
		ST	150 ppm 900 mg/m ³	NIOSH REL
		TWA	100 ppm 600 mg/m ³	OSHA Z-1

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		TWA	100 ppm 600 mg/m ³	OSHA P0
		STEL	150 ppm 900 mg/m ³	OSHA P0
		TWA	50 ppm	ACGIH

Engineering measures : Local exhaust or a laboratory hood should be used when handling the materials.
 Maintain air concentrations below occupational exposure standards.

Personal protective equipment

Respiratory protection : Provide adequate ventilation.
 No personal respiratory protective equipment normally required.
 Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge.
 When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
 Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

Hand protection

Material : Solvent-resistant gloves

Remarks

: Gloves must be inspected prior to use. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.
 Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection : Wear safety glasses with side shields.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Lightweight protective clothing

Safety shoes

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
 Avoid contact with skin, eyes and clothing.
 Contaminated work clothing should not be allowed out of the workplace.
 Remove contaminated clothing and protective equipment before entering eating areas.
 Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Colour	:	colourless
Odour	:	ether-like
Freezing point	:	-117.0 °F / -82.8 °C
Boiling point/boiling range	:	374 °F / 190 °C (1,013 hPa)
Flash point	:	174 °F / 79 °C
		Method: closed cup
Upper explosion limit / Upper flammability limit	:	Upper flammability limit 14 %(V)
Lower explosion limit / Lower flammability limit	:	Lower flammability limit 1.1 %(V)
Vapour pressure	:	0.55 hPa (77 °F / 25 °C)
Relative vapour density	:	5.11 (68 °F / 20 °C) (Air = 1.0)
Density	:	0.951 g/cm ³ (68 °F / 20 °C)
Solubility(ies)	:	
Water solubility	:	miscible (68 °F / 20 °C)

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Polymerization will not occur. Stable at normal temperatures and storage conditions.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Acids
Hazardous decomposition products	:	Carbon oxides
		Aldehydes Ketones Organic acids

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Assessment: The substance or mixture has no acute oral toxicity
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Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

Acute dermal toxicity : LD50 (Rabbit): 9,510 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Skin effects

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

Species	: Rabbit
Assessment	: No skin irritation
Method	: OECD Test Guideline 404
Result	: No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

Species	: Human
Result	: Slight or no eye irritation
Assessment	: No eye irritation
Remarks	: Minimal effects that do not meet the threshold for classification.

Respiratory or skin sensitisation**Skin sensitisation**

Based on available data, the classification criteria are not met.

Respiratory sensitisation

Not classified due to lack of data.

Components:**(2-Methoxymethylethoxy)propanol:**

Species	: Human
Assessment	: Does not cause skin sensitisation.
Result	: Does not cause skin sensitisation.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

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Components:**(2-Methoxymethylethoxy)propanol:**

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.

Carcinogenicity

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects., Information given is based on data obtained from similar substances.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

Reproductive toxicity - Assessment : No toxicity to reproduction, Animal testing showed no reproductive toxicity., No effects on or via lactation, Information given is based on data obtained from similar substances. Animal testing showed no developmental toxicity.

STOT - single exposure

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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Repeated dose toxicity**Components:****(2-Methoxymethylethoxy)propanol:**

Species	:	Rat
NOAEL	:	1,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 d
Remarks	:	No toxicologically significant effects were found.

Species	:	Rat
Application Route	:	Inhalation
Test atmosphere	:	vapour
Exposure time	:	90 d
Method	:	OECD Test Guideline 413
Remarks	:	No toxicologically significant effects were found.

Species	:	Rabbit
NOAEL	:	2,850 mg/kg
Application Route	:	Skin contact
Exposure time	:	90 d
Method	:	OECD Test Guideline 411
Remarks	:	No toxicologically significant effects were found.

Aspiration toxicity

Based on available data, the classification criteria are not met.

Components:**(2-Methoxymethylethoxy)propanol:**

No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****(2-Methoxymethylethoxy)propanol:**

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Aquatic toxicity is unlikely due to low solubility.
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Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 969 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): 969 mg/l
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Exposure time: 96 h
Method: OECD Test Guideline 201

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability**Components:****(2-Methoxymethylethoxy)propanol:**

Biodegradability : Result: Biodegradable
Method: OECD Test Guideline 301
Remarks: Readily biodegradable.

Bioaccumulative potential**Components:****(2-Methoxymethylethoxy)propanol:**

Partition coefficient: n-octanol/water : log Pow: 0.004 (77 °F / 25 °C)
pH: 7.5 - 7.7

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : If recycling is not practicable, dispose of in compliance with local regulations.
Do not reuse empty container. Never place unused product down any indoor or out door drain.
Contaminated/not cleaned containers should be treated/handled like product waste. Dispose of container properly. Refer to applicable Local, State/Provincial, and Federal Regulations, as well as industry Standards.

SECTION 14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

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Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations**49 CFR**

Not regulated as a dangerous good

Special precautions for user

Remarks : Regulated by DOT/49CFR as Combustible Liquid when transported in a bulk package (≥ 119 gallons(450 litres))., Not regulated by DOT in non-bulk package.

SECTION 15. REGULATORY INFORMATION**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity**

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any substances requiring a warning under the Safe Drinking Water and Toxic Enforcement Act.

TSCA list

In compliance with TSCA-active Inventory requirements for commercial purposes.

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA P0 / TWA	: 8-hour time weighted average
OSHA P0 / STEL	: Short-term exposure limit

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OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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