



SAFETY DATA SHEET

Issue Date 18-September-1990

Revision Date 02-September-2020

Version 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name MALDENE 286

Other Means of Identification

SDS # LC-053

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Film former

Details of the Supplier of the Safety Data Sheet

Supplier Address

Lindau Chemicals, Inc.
731 Rosewood Drive
Columbia, SC 29201

Emergency Telephone Number

Company Phone Number Phone: 1-803-799-6863
Fax: 1-803-256-3639
Emergency Telephone INFOTRAC 01-352-323-3500 (International)
1-800-457-4280 (North America)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: The information below relates to repeated and prolonged exposure. The supplier has indicated that eye exposure normally results in eye irritation or damage.

Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1

Signal Word

Danger

Hazard Statements

H315: Causes skin irritation
H318: Causes serious eye damage



Appearance Amber liquid

Physical State Liquid

Odor Musky

Precautionary Statements - Prevention

P264: Wash face, hands and any exposed skin thoroughly after handling.

P280: Wear protective gloves, protective clothing and eye protection.

Precautionary Statements - Response

P305 + P351: IF IN EYES: Rinse cautiously with water for several minutes.

P338: Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P332 + P313: If skin irritation occurs: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Copolymer of Maleic acid and 1,3-Butadiene, partial ammonium salt	none	10–30
Tetrahydrophthalic acid	88-98-2	0–5
Water	7732-18-5	> 65

** If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

First Aid Measures

General	If exposed to this product in any way outside of normal handling and if there is concern about this exposure, get medical advice or attention.
Inhalation	Move person to fresh air. Get medical attention if there is continued irritation or discomfort.
Eye Contact	Rinse eyes immediately with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing holding eyelids wide open for at least 15 minutes. Get medical attention if irritation occurs or persists.
Ingestion	Immediately rinse mouth repeatedly with plenty of water. If possible, do not leave the person unattended. Get medical attention if discomfort or irritation occurs or persists.
Skin Contact	Thoroughly wash exposed area with plenty of soap and water while removing all contaminated clothing, including shoes. Launder contaminated clothing before reuse. Get medical attention if skin is damaged or if skin irritation develops or persists.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	May cause skin irritation in some individuals upon prolonged contact. Eyes may be damaged and have symptoms of redness, itching, irritation and watering from overexposure.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically. Treatment of overexposure should be directed toward the control of symptoms and be based on the clinical condition of the patient.
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5. FIRE-FIGHTING MEASURES

Extinguishing Media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Specific Hazards Arising from the Chemical

This product is not flammable.

Hazardous Combustion Products None known

Protective Equipment and Precautions for Firefighters

Use appropriate protective equipment for extinguishing burning of surrounding materials. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Use personal protective equipment as required (see Section 8). Persons not wearing protective equipment should be excluded from the area of the spill until clean-up has been completed. Ensure adequate ventilation. Avoid contact with skin and eyes.
Environmental Precautions	Avoid subsoil penetration. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment	Ensure adequate ventilation. Stop spill at source, if safe to do. Dike area of spill to prevent spreading or entry into sewers, basements or confined areas. Pump liquid to salvage tanks or containers.
Methods for Cleaning Up	Spillage may be taken up with non-combustible, absorbent material. Collect resulting material in suitable containers for disposal. Clean up and dispose of material in accordance with federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling	Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with skin and eyes. Use only with adequate ventilation. Keep containers tightly closed. Keep containers upright to prevent leakage.
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Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Keep containers tightly closed when not in use and store in a dry, cool and well-ventilated area. Avoid excessive temperatures.
Packaging Materials	Do not transfer to unmarked containers.
Incompatible Materials	Any material that readily reacts with water, such as a reactive metal

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Control Parameters

Engineering Controls Apply standard technical measures for the safe, contained handling of chemicals.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Wear approved safety goggles. Eye-wash facilities should be readily available.

Skin and Body Protection Wear chemical resistant, impermeable gloves. Wear suitable protective clothing.

Respiratory Protection Ensure adequate general ventilation.

General Hygiene Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Musky
Appearance	Amber liquid	Odor Threshold	Not determined
Color	Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	4.6–5.0	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	100 °C (212 °F)	(minimum)
Flash Point	> 135 °C (> 275 °F)	(Tag closed cup)
Evaporation Rate	As water	
Flammability (Solid, Gas)	n/a-liquid	
Upper Flammability Limit	Not applicable	
Lower Flammability Limit	Not applicable	
Vapor Pressure	17 mm Hg	@ 20 °C (68 °F)
Relative Vapor Density	As water	
Specific Gravity	1.08 @ 25 °C (77 °F)	(water = 1)
Water Solubility	Soluble	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	100–800 cP	
Explosive Properties	Not explosive	
Oxidizing Properties	Not determined	
Percent Volatile by Weight	> 65%	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions

Chemical Stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

High temperatures (>100°C)

Incompatible Materials

Any material that readily reacts with water, such as a reactive metal

Hazardous Decomposition Products

None known

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation	Breathing small amounts during normal handling is not likely to cause harmful effects. Breathing large amounts may cause irritation of the respiratory tract.
Eye Contact	Exposure may cause serious eye damage.
Ingestion	Ingestion in sufficient amounts may cause gastrointestinal irritation.
Skin Contact	Prolonged exposure may cause skin irritation, drying or cracking.

Information on Physical, Chemical and Toxicological Effects

Symptoms Please see Section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short-term and Long-term Exposure

Mutagenicity	Not determined
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, ACGIH or NTP.
STOT – Single Exposure	Not determined
Aspiration Hazard	Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Avoid discharges into drains and water systems and onto the ground.

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

The product is soluble in water.

Other Adverse Effects

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable federal, state and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable federal, state and local laws and regulations.

14. TRANSPORT INFORMATION

Regulatory Entity

DOT	Not regulated
RID/ADR	Not regulated
IMDG	Not regulated
IATA	Not regulated

Note

Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

15. REGULATORY INFORMATION

International Inventories

Component 88-98-2 Listed TSCA, DSL/NDSL, EINECS/ELINCS, ENCS, IECSC, KECI, TCSI, AICS

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECI - Korea Existing Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substance Inventory

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

United States Federal Regulations

CERCLA This material, as supplied, does not contain any substances with known CAS numbers that are regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) of the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 302 No chemicals with known CAS numbers in this material are subject to the reporting requirements of SARA Title III, Section 302.

EPCRA This product does not contain any chemicals with known CAS numbers that are subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-know Act of 1986 (40 CFR 372).

SARA 311/312

Chemical Name	CAS No	Hazard
Tetrahydrophthalic acid	88-98-2	Acute health

United States State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

United States State Right-to-Know Regulations

Chemical Name	CAS No	New Jersey	Pennsylvania
Tetrahydrophthalic acid	88-98-2	X	X

16. OTHER INFORMATION

NEPA	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	Not determined
Issue Date	18-September-1990			
Revision Date	02-September-2020			
Revision Note	Reviewed/updated			
GHS Version	3			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet