

SAFETY DATA SHEET

Issuing Date 10-May-2017

Revision Date 11-Jun-2019

Revision Number 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name **ACETO DMN**

Other means of identification

Product Code 2161010
CAS Number 571-58-4
Formula Not available
Synonyms 1,4-Dimethylnaphthalene
UN-No UN3082
EPA Registration Number 2749-586

Recommended use of the chemical and restrictions on use

Recommended Use Agriculture
Uses advised against Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO LIFE SCIENCES, LLC
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: aceto@aceto.com

Emergency Telephone Number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation	Category 2B
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Label elements

Emergency Overview

Signal Word

Warning

Hazard statements

Causes eye irritation

Appearance

Clear to Pale Yellow

Physical State

Liquid

Odor

Petroleum distillates

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present .

If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None known

Other Information

0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms 1,4-Dimethylnaphthalene

Formula Not available

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
1,4-Dimethylnaphthalene	571-58-4	100	False

4. FIRST AID MEASURES

First Aid Measures

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Skin Contact Wash off immediately with plenty of water. Wash contaminated clothing before reuse. Consult a physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

Self-Protection of the First Aider Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed

Signs and Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Dry chemical.

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

Thermal decomposition or combustion may produce hazardous gases and/or materials.

Explosion Data

Not available

Sensitivity to mechanical impact Not available.

Sensitivity to static discharge Not available.

Specific Hazards Arising from the Chemical

(Container may explode by heating. Irritating gases may be generated by the fire.).

Protective Equipment and Precautions for Firefighters

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**

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental Precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up**Methods for Clean-up**

Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

Precautions for safe handling**Handling**

Applicators and other handlers must wear long-sleeved shirts, trousers, shoes plus socks, and chemical resistant gloves (such as Nitrile or Butyl). For re-entry into treated areas during application and prior to ventilation or settling of aerosol fog, workers must additionally wear coveralls; face sealing goggles, unless a full-face respirator is worn; and a respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides or a canister approved for pesticides or a respirator with an organic vapor (OV) cartridge.

Conditions for safe storage, including any incompatibilities**Storage**

Keep container closed. Do not contaminate water, food, or feed by storage or disposal. This product temporarily inhibits germination of seed potatoes. Store in areas that are cool, dry and well-ventilated. Do not store with strong oxidizers. Store in original packs/containers.

Incompatible Materials

Incompatible with strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
1,4-Dimethylnaphthalene 571-58-4	-	-	-

Appropriate engineering controls**Individual protection measures, such as personal protective equipment**

Eye/Face Protection	Tight sealing safety goggles.
Skin and body protection	Use suitable eye protection and gloves.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment.

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

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Appearance	Clear to Pale Yellow
Physical State	Liquid
Odor	Petroleum distillates
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6.3 @ 25°C in an inert atmosphere and 5.9 under ambient atmospheric conditions (1% mixture in water)	
Melting point / Freezing point	5 °C	Literary Reference
Boiling point / boiling range	264°C @ 744 mmHg	
Flash Point	122°C @ 760 mm Hg	No information available
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air	No information available	
Upper flammability limit	No information available	
Lower flammability limit	Not available	
Vapor Pressure	1.88 x 10 ⁻² mm of mercury @ 25°C(2.5 Pa @ 25°C) 4.85 x 10 ⁻² mm of mercury @ 35°C(4.8 Pa @ 35°C)	
Vapor Density	Not available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	log Pow = 4.372 @ 22.5 ± 0.5°C	Estimated
Autoignition temperature °C	No Data Available	
Decomposition temperature	No Data Available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	6 cps @ 25° or 6 mPa s @ 25°C	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	No information available
VOC content	No information available
Liquid Density	1.014 (25°C)
Bulk density	No information available
Corrosion characteristics	No information available

10. STABILITY AND REACTIVITY

Reactivity	May react with strong oxidizing agents.
Chemical Stability	Stable for 4 years at ambient temperature in the dark 13.7% decomposition for 14 days at 55°C in light No decomposition for 1 hour at 100°C in the presence of Al, Fe, and Sn powders.
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Incompatible with strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Irritation and toxic fumes and gases.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,4-Dimethylnaphthalene	-	-	-

Oral LD50	2730
Dermal LD50	> 2,000 mg/kg; (rat); (male&female); g/kg; (rabbit)
LC50 Inhalation:	> 4.16 mg/L; (rat)

Information on likely routes of exposure

Eyes	Moderately irritating to the eyes.
Skin	Irritating to skin.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	No information available.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/irritation	Mild to moderate eye irritant in animals.
Skin Corrosion/Irritation	Mild to moderate skin irritant in animals.
Sensitization	No information available.
Reproductive Effects	No information available.
Mutagenic Effects	No information available.
Developmental Effects	No information available.
STOT - single exposure	No information available.

STOT - Repeated Exposure No information available.

Aspiration Hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

LC50, in 96 hr. Rainbow trout test: 0.67 mg/L
 LC50, in 96 hr. Fathead minnow test: 1.4 mg/L
 EC50, in 48 hr. Daphnia test: 0.56 mg/L
 EC50, in 72 hr. Alga test: 0.32 mg/L

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
1,4-Dimethylnaphthalene 571-58-4	-	-	-	-

Persistence/Degradability No information available.

Bioaccumulation/Accumulation Bioaccumulation in aquatic organisms is expected, Kow 4.4.

Mobility in Soil Minimal.

Chemical name	log Pow =
1,4-Dimethylnaphthalene 571-58-4	-

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Hazard class 9
Packing Group III
Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,(1,4-dimethylnaphthalene), 9, III
Emergency Response Guide Number 171

TDG

UN-No UN3082
Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.
Hazard class 9
Packing Group III

Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
MEX	
UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
ICAO	
UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
IATA	
UN number	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
IMDG	
UN number	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	This material meets the definition of a marine pollutant
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
RID	
UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing Group	III
Classification Code	M6
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
ADR/RID-Labels	9
ADR	
UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing Group	III
Classification Code	M6
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Labels	9
ADN	
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es)	9
Packing Group	III
Classification Code	M6
Special Provisions	274, 335, 375, 601
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
Hazard label(s)	9
Limited Quantity	5 L

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
Canada (DSL)	Does not comply
EU (EINECS)	Complies
EU (ELINCS)	Does not comply
Japan (ENCS)	Complies
China (IECSC)	Does not comply
Korea (KECL)	Does not comply
Philippines (PICCS)	Complies
Australia (AICS)	Does not comply
Mexico INV	Does not comply
Taiwan INV	Complies

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
1,4-Dimethylnaphthalene	Present	-	X	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
	Present (4)-80	-	-	Present	-
Chemical name	Mexico INV		Taiwan INV		
1,4-Dimethylnaphthalene 571-58-4	-		Present		

This material as a whole is exempt from the TSCA Inventory // FIFRA Regulated Pesticide

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

VOC content

This Product does not contain any VOCs

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

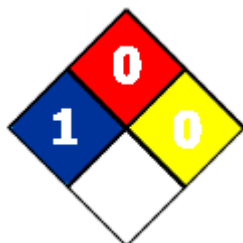
NFPA

Health 1

Flammability 0

Instability 0

Physical Hazard 0



Issuing Date

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Revision Date

11-Jun-2019

Revision Summary

Not available

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 guidance 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