



SAFETY DATA SHEET

Preparation Date 01-Aug-2013

Revision Date 27-Mar-2013

Revision Number 2

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

Product Identifier

Product Name **ACETONOX 3070**

Other means of identification

Product Code 3603700
CAS Number Mixture
Formula Unspecified
Synonyms Mixture of 4,4'- Diaminodiphenyl Methane & Formaldehyde, Polymer with Benzenamine, Hydrogenated & 4,4'-Methylenebis(Cyclohexylamine)
UN-No UN1760

Recommended use of the chemical and restrictions on use

Recommended Use Coatings
Uses advised against Repeated contact with food. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO CORPORATION
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

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 2
Respiratory Sensitization	Category 1A
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B

Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 2

Label elements**Emergency Overview****Signal Word****DANGER****Hazard statements**

Harmful if swallowed
 Fatal in contact with skin
 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 May cause an allergic skin reaction
 Suspected of causing genetic defects
 May cause cancer
 Suspected of damaging fertility or the unborn child
 Causes damage to organs
 May cause damage to organs through prolonged or repeated exposure

**Appearance**

Viscous

Physical State

Liquid

Odor

Not available

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Do not get in eyes, on skin, or on clothing
 In case of inadequate ventilation wear respiratory protection
 Contaminated work clothing should not be allowed out of the workplace
 Wear protective gloves
 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

IF exposed: Call a POISON CENTER or doctor/physician
 Immediately call a POISON CENTER or doctor/physician
 IF ON SKIN: Gently wash with plenty of soap and water
 Remove/Take off immediately all contaminated clothing
 Wash contaminated clothing before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None known

Other Information

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

100 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Mixture of 4,4'- Diaminodiphenyl Methane & Formaldehyde, Polymer with Benzenamine, Hydrogenated & 4,4'-Methylenebis(Cyclohexylamine)

Formula Unspecified

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
4,4'- Diaminodiphenyl Methane	101-77-9	8	0.1 ppm TWA Supplement 7 [1987]; Monograph 39 [1986]
Formaldehyde, Polymer with Benzenamine, Hydrogenated	135108-88-2	60	True
Bis(P-Amino Cyclohexyl)Methane	1761-71-3	30	True

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. Call a physician or Poison Control Centre immediately.
- Skin Contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Discard contaminated shoes. Call a physician or Poison Control Centre immediately.
- Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or Poison Control Centre immediately.
- Ingestion** Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.
- Protection of First-aiders** Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms and effects, both acute and delayed

Main Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

<u>Flammable Properties</u>	Not available.
<u>Suitable Extinguishing Media</u>	Water spray. Carbon dioxide (CO ₂). Dry chemical. Alcohol-resistant foam.
<u>Unsuitable Extinguishing Media</u>	No information available.
<u>Hazardous Combustion Products</u>	Thermal decomposition or combustion may produce hazardous gases and/or materials.
<u>Explosion Data</u>	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

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. Avoid contact with skin, eyes 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 material to contaminate ground water system. 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 Cleaning up	Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly.
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7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling	Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Avoid repeated exposure.
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Conditions for safe storage, including any incompatibilities

Storage Keep in properly labeled containers. Keep container tightly closed in a dry and well-ventilated place.

Incompatible Materials Oxidizing agents. Acids. Acid chlorides. Acid anhydrides. Isocyanides. Halogenated organics. Peroxides. Phenols. Epoxides. Acid halides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
4,4'- Diaminodiphenyl Methane 101-77-9	0.1 ppm TWA Skin - potential significant contribution to overall exposure by the cutaneous route	-	-
Formaldehyde, Polymer with Benzenamine, Hydrogenated 135108-88-2	-	-	-
Bis(P-Amino Cyclohexyl)Methane 1761-71-3	-	-	-

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection Tightly fitting safety goggles. Face-shield.

Skin and body protection Wear protective gloves and protective clothing.

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 Viscous
Physical State Liquid
Odor Not available
Odor Threshold Not available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	
Melting/freezing point		Literary Reference
Boiling Point/Range	No data available	Literary Reference
Flash Point	No data available	
Flammability (solid, gas)		
Flammability Limits in Air		
upper flammability limit		
lower flammability limit	Not available	
Vapor Pressure	No information available	
Vapor Density	Not available	
Specific Gravity	No information available	
Water Solubility	Insoluble in cold water	
Solubility in other solvents	No information available	

Partition coefficient: n-octanol/water	Not available	
Autoignition temp (°C)	No data available	Estimated
Decomposition temperature		
Viscosity, kinematic		
Viscosity, dynamic	Not available	
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
Density	No information available
Bulk Density	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not applicable.
Chemical Stability	Stable under recommended storage conditions
Hazardous Polymerization	Hazardous polymerisation does not occur
Conditions to Avoid	Heat, flames and sparks.
Incompatible Materials	Oxidizing agents. Acids. Acid chlorides. Acid anhydrides. Isocyanides. Halogenated organics. Peroxides. Phenols. Epoxides. Acid halides.
Hazardous Decomposition Products	Carbon monoxide Carbon dioxide (CO ₂) Nitrogen oxides (NO _x)
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION**Product Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
4,4'- Diaminodiphenyl Methane 101-77-9	= 335 mg/kg (Rat)	= 200 mg/kg (Rabbit) = 750 mg/kg (Rat)	> 0.85 mg/L (Rat) 4 h
Formaldehyde, Polymer with Benzenamine, Hydrogenated 135108-88-2	-	-	-
Bis(P-Amino Cyclohexyl)Methane 1761-71-3	= 1000 mg/kg (Rat)	-	-

Information on likely routes of exposure

Eyes	Corrosive. Causes burns. Avoid contact with eyes.
Skin	Toxic in contact with skin. Corrosive. Causes burns. May cause sensitization by skin contact. Avoid contact with skin.
Inhalation	Toxic by inhalation. Corrosive. Causes burns. Avoid breathing vapors or mists.
Ingestion	Toxic if swallowed. May cause methemoglobinemia, cyanosis, convulsions, and death. Do not ingest.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
4,4'- Diaminodiphenyl Methane 101-77-9	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	Supplement 7 [1987]; Monograph 39 [1986]	Reasonably Anticipated To Be A Human Carcinogen	Present

Eye damage/irritation No information available.

Corrosivity Causes burns.

Skin Corrosion/Irritation No information available.

Sensitization May cause sensitization of susceptible persons. [Immune System]. May cause sensitization by skin contact.

Reproductive Effects No information available.

Mutagenic Effects Possible mutagen.

Developmental Effects No information available.

STOT - single exposure No information available.

STOT - Repeated Exposure No information available.

Chronic Toxicity Avoid repeated exposure. May cause sensitization of susceptible persons. [Immune system]. Possible mutagen. May cause cancer. California Proposition 65 Carcinogens List. [4,4'- Diaminodiphenyl Methane]. Target Organ Effects. Possible risks of irreversible effects.

Target Organ Effects Eyes, Skin, Respiratory system, Bladder, Central Vascular System (CVS), Liver, Spleen.

Aspiration Hazard No information available.

Numerical measures of toxicity - Product Information

Acute Toxicity 100 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	705 mg/kg
ATEmix (dermal)	200 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

There is no known ecological information for this product.

92 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Freshwater Algae Data	Freshwater Fish Species Data	Microtox Data	Water Flea Data
4,4'- Diaminodiphenyl Methane 101-77-9	= 21 mg/L EC50		= 5.99 mg/L EC50 Photobacterium phosphoreum 5 min = 6.57 mg/L EC50 Photobacterium phosphoreum 15 min = 6.57 mg/L EC50 Photobacterium phosphoreum 30 min = 6.6 mg/L EC50 Photobacterium phosphoreum 1 h	

Persistence / Degradability No information available.

Bioaccumulation / Accumulation Does not bioaccumulate.

Mobility in Soil No information available.

Chemical Name	log Pow =
4,4'- Diaminodiphenyl Methane 101-77-9	1.46 at 25 °C
Bis(P-Amino Cyclohexyl)Methane 1761-71-3	2.03 [OECD Guideline 107]

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method 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 for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

UN-No UN1760
Proper Shipping Name Corrosive liquids, n.o.s.
Hazard Class 8
Packing Group III
Reportable Quantity (RQ) 4,4'-Methylenedianiline: RQ kg= 56.75
Description UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl)Methane), 8, III
Emergency Response Guide Number 154

TDG

UN-No UN1760
Proper Shipping Name Corrosive liquid, n.o.s.
Hazard Class 8
Packing Group III

Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl)Methane), 8, III
MEX	
UN-No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl) Methane, 8, III
ICAO	
UN-No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl) Methane, 8, III
IATA	
UN-No	UN1760
Hazard Class	8
Packing Group	III
Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl)Methane), 8, III
IMDG/IMO	
UN-No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
EmS No.	F-A, S-B
Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl)Methane), 8, III
RID	
UN-No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Classification Code	C9
Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl)Methane), 8, III
ADR	
UN-No	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8
Packing Group	III
Classification Code	C9
Tunnel Restriction Code	(E)
Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl)Methane), 8, III, (E)
ADR/RID-Labels	8
ADN	
Proper Shipping Name	Corrosive liquid, n.o.s.
Hazard Class	8

Packing Group	III
Classification Code	C9
Special Provisions	274
Description	UN1760, Corrosive liquid, n.o.s (Formaldehyde, Polymer with Benzenamine, Hydrogenated, Bis(P-Amino Cyclohexyl)Methane), 8, III
Limited Quantity	5 L

15. REGULATORY INFORMATION

International Inventories

U.S.A. (TSCA)	Complies
Canada (DSL)	Complies
EU (EINECS)	Does not Comply
EU (ELINCS)	Does not Comply
Japan (ENCS)	Does not Comply
China	Complies
Korea (KECL)	Complies
Philippines (PICCS)	Complies
Australia (AICS)	Complies

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
4,4'- Diaminodiphenyl Methane	Present	Present	Present	-	
Formaldehyde, Polymer with Benzenamine, Hydrogenated	Present	Present	-	-	
Bis(P-Amino Cyclohexyl)Methane	Present	Present	Present	-	
Chemical Name	Japan (ENCS)	China	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
4,4'- Diaminodiphenyl Methane	Present (4)-40	Present	Present	Present	Present
Formaldehyde, Polymer with Benzenamine, Hydrogenated	-	Present	Present	Present	Present
Bis(P-Amino Cyclohexyl)Methane	Present (4)-101;(3)-2272	Present	Present	Present	Present

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	SARA 313 - Threshold Values
4,4'- Diaminodiphenyl Methane 101-77-9 (8)	0.1 % de minimis concentration

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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 contains the following HAPs:

Chemical Name	HAPS data
4,4'- Diaminodiphenyl Methane	Present (listed under 4,4-Methylenedianiline)

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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	CERCLA/SARA Hazardous Substances	CERCLA/SARA RQ	RQ
4,4'- Diaminodiphenyl Methane 101-77-9	10 lb final RQ; 4.54 kg final RQ		10 lb final RQ; 4.54 kg final RQ

*State Regulations***California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	Category	Type
4,4'- Diaminodiphenyl Methane	101-77-9	carcinogen, initial date 1/1/88	carcinogen, initial date 1/1/88

State Right-to-Know

This product contains the following State Right-to-Know chemicals:

Chemical Name	New Jersey	Massachusetts	Illinois	Rhode Island	Pennsylvania
4,4'- Diaminodiphenyl Methane 101-77-9	sn 1256	Carcinogen; Extraordinarily hazardous	Present	Toxic (skin)	Environmental hazard

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 3****Flammability 0****Instability 0****Physical Hazard 0****Preparation Date**

01-Aug-2013

Revision Date

27-Mar-2013

Revision Summary

Not available

Disclaimer

The information provided on this MSDS 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 as 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 material or in any process, unless specified in the text.

End of MSDS