G.J. CHEMICAL COMPANY, INC. SAFETY DATA SHEET

1. PRODUCT IDENTIFIER

1.1 PRODUCT NAME------ Maleic Anhydride

PRODUCT NUMBER(S)----> 191300;

TRADE NAMES AND SYNONYMS--> cis-Butenedoic anhydride; 2, 5-furandione Toxilic anhydride

CAS-No: 108-31-6 CHEMICAL FAMILY: Anhydride

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES

ADVISED AGAINST

RECOMMENDED USE: Industrial: Monomer in polymerization. Intermediate.

Laboratory chemicals.

USES ADVISED AGAINST: No information available

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company: G.J. CHEMICAL CO., INC.

Address: 40 VERONICA AVENUE

SOMERSET, NJ 08873

Telephone: 1-973-589-1450 Fax: 1-973-589-3072

1.4 Emergency Telephone Number

Emergency Phone: 1-800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Respiratory sensitization (Category 1), H334

Skin sensitization (Category 1), H317

Specific target organ toxicity - repeated exposure, Inhalation (Category 1),

Respiratory system, H372

Acute aquatic toxicity (Category 3), H402



Signal word: DANGER

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H372 Causes damage to organs through prolonged or repeated use.

H402 Harmful to aquatic life.

Precautionary statement(s)

Prevention:

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Reponse:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you. Rinse mouth.

feel unwell.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position. Immediately call a POISON CENTER/doctor.

comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

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

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON

CENTER/doctor.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: Corrosive to the respiratory tract. Sternutator.

3. INGREDIENTS

3.1 SUBSTANCE:

Ingredient	CAS No.	% by \ Range		CLASSIFICATION
Maleic anhydride EC-No Index-No.60 RegNo. 01-211947242		 99.5 	Skin Seric Resp Skin STO Inhal	e toxicity, Oral (Category 4), H302 corrosion (Category 1B), H314 bus eye damage (Category 1), H318 biratory sensitization (Category 1), H334 sensitization (Category 1), H317 T-RE (Category 1), Respiratory system, lation, H372 e aquatic toxicity (Category 3), H402

3.2 MIXTURE: Not applicable.

4. FIRST-AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES:

INHALATION: Maleic Anhydride

Remove from exposure, restore breathing. Keep warm and quiet. Immediately notify physician.

EYES (SPLASH): Maleic Anhydride

Immediately flush eyes with water for 15 minutes. Remove contact lenses, if worn, after initial flushing. Hold eyelids open for complete irrigation. Immediately get medical attention.

SKIN (SPLASH): Maleic Anhydride

Wipe off excess material from skin then wash affected area with plenty of soap and water for at least 15 minutes.

Remove contaminated clothing. Consult a physician if irritation persists.

INGESTION: Maleic Anhydride

Induce vomiting immediately as directed by medical personnel. Never

give anything by mouth to an unconscious person. Immediately contact a physician or poison control center, treat symptomatically.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

Eye: Corrosive; Dust or vapor causes burns or irritation of the eyes with swelling. Sensitivity to light and double vision may occur.

Skin: Corrosive; May not cause immediate burning of the skin, but prolonged contact with moist skin may cause reddening and blistering or burns. Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Inhalation of vapor, fume, or dust may cause irritation of the nose and throat. Coughing, sneezing and burning of the throat may be experienced. May cause allergic respiratory reactions.

Ingestion: Corrosive, Toxic; Swallowing can cause sore throat, abdominal pain and vomiting. May cause burns to the digestive tract.

Chronic: Exposure by inhalation or skin contact can cause allergic sensitization. Medical Conditions Aggravated by Exposure: Persons with pre-existing Skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Specific details on antidote: No recommendation given.

5. FIRE FIGHTING MEASURES

Flash Point: 102°C (216°F) closed cup LEL %: 1.4 (V) Auto-ignition Temp: 477°C (891°F) **UEL** %: 7.1 (V)

5.1 SUITABLE EXTINGUISHING MEDIA: Foam--> x CO2--> x

Unsuitable extinguishing media: Do not use waterjet.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR

MIXTURE: Above the flash point, vapor air mixtures are explosive within the flammable limits above.

CONDITIONS OF FLAMMABILITY: Not flammable or combustible.

Do not use dry chemical, multipurpose dry chemical, or loaded stream media because of explosion potential from reactivity of basic compounds.

HAZARDOUS COMBUSTION PRODUCTS: Combustible solid sublimes and gives off flammable vapors when heated.

5.3 ADVICE FOR FIREFIGHTERS: Combustible solid; Shut off source. Wear NIOSH/MSHA approved self-contained positive pressure (SCBA) breathing apparatus for confined spaces and where there is exposure to vapors. Use full fire-fighting protective clothing. Water or foam may cause frothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Eliminate ignition sources in the vicinity of the spill or released vapor. Immediately evacuate all nonessential people. Verify that responders are properly trained and wearing appropriate respiratory equipment and fire resistant protective clothing during cleanup operations.

6.2 ENVIRONMENTAL PRECAUTIONS:

Keep out of water sources, drains and sewers. Do not flush into surface water or sanitary sewer system.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Methods for cleanup and containment:

Use explosion proof equipment. Clean up spills in a manner that does not disperse dust into the air. Reduce airborne dust and prevent scattering by moistening with water.

Methods for disposal:

Pick up spill for recovery or disposal and place in a closed container. Minimize breathing vapors and skin contact, ventilate confined areas, open all windows and doors, assure conformity with applicable government regulations.

REPORTABLE QUANTITY (RQ): 5000 POUNDS

The Superfund Amendments and Reauthorization Act (SARA) Section 304 requires that a release equal to or greater than the reportable quantity for this substance be immediately reported to the local emergency planning committee and the state emergency response commission (40 CFR 355.40). If the release of this substance is reportable under CERCLA Section 103, the national response center must be notified immediately at (800) 424-8882 or (202) 426-2675 in the metropolitan Washington, D. C. area (40 CFR 302.6).

6.4 REFERENCE TO OTHER SECTIONS: See Sections 8 and 13.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING: Avoid contact with skin and eyes. Avoid breathing vapors in top of shipping container. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Protect against physical damage. Isolate from any source of heat or ignition. Reacts with moisture to give maleic acid, which can corrode metals, liberating hydrogen. Avoid work practices

that may release dust in the atmosphere. Avoid contaminating soil or releasing material into sewage and drainage systems. Use non-sparking tools to open or close containers.

Advice on general occupational hygiene:

Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuffs. When using do not smoke.

STATIC HAZARD: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not be sufficient. For more information refer to National Fire Protection Association (NFPA 77) "Recommended Practice on Static Electricity".

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

Follow maximum allowed pile heights specified in the BOCA codes or the NFPA manual. Local fire authorities should be notified for storage of this material in any quantity. Local permits are required for storage in warehouse quantities. Moisture sensitive. Recommended storage temperature: 15 - 25°C. Store large quantities only in cool, dry areas in buildings designed to comply with OSHA 1910.106. Do not contact with oxidizing materials. Keep containers closed when not in use. Do not take internally. Moisture sensitive. Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

CONTAINER WARNINGS: Empty only into inert or non-flammable atmosphere. Containers should be Bonded and Grounded when pouring. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge. Empty containers release residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, or expose such containers to heat, sparks, static electricity or other sources of ignition. Do not attempt to clean. "Empty" containers should be completely drained.

7.3 SPECIFIC END USES: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROL (PERSONAL PROTECTION)

8.1 CONTROL PARAMETERS:

Ingredient	CAS No.	% by WT. Range	Exposure Limits

Maleic anhydride	108-31-6	i	99.5	 0.01ppm TWA (ACGIH)
-	EC-No.203-571-6	Ī		0.25ppm TWA (OSHA)
	Index-No.607-096-00-9	Ĺ		0.25ppm TWA (NIOSH)
RegNo.	01-2119472428-31-XXXX	ĺ		1
All components are	e in the TSCA inventory.	1		I
		1		I

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Key: (PEL) = Permissible Exposure Limit OSHA (TLV) = Threshold Limit Value OSHA & ACGIH (STEL) = Short Term Exposure Limit ACGIH

(WEEL) = USA. Workplace Environmental Exposure Levels

(TWA) = Time Weighted Average

CAS = Chemical Abstracts Registry Number IDLH = Immediate Danger to Life and Health

N.E. =None Established

8.2 EXPOSURE CONTROLS

EXPOSURE GUIDELINES: Consider the potential hazards of this material (Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended.

<u>ENGINEERING CONTROLS</u>: Provide general dilution or local exhaust ventilation in volume and pattern to keep concentrations within permitted exposure limits. All areas should be ventilated in accordance with OSHA Regulation 29 CFR Part 1910. Explosion proof motors should be used in mechanical ventilation.

<u>RESPIRATORY PROTECTION</u>: The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA):

For known vapor concentrations use a NIOSH/MSHA air purifying respirator with full face-piece and organic vapor cartridge and particulate filter for exposures >1 <10 times ACGIH TWA. For exposures greater than 10 times ACGIH TWA of for unknown vapor concentrations use a NIOSH/MSHA approved positive pressure self-contained breathing apparatus (SCBA) with full face-piece.

BODY CLOTHING: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged contact with this substance. Use chemical resistant apron or other impervious clothing. Remove and wash contaminated clothing before reuse. Users should determine acceptable performance characteristics of protective clothing.

<u>SKIN PROTECTION</u>: Employee must wear appropriate protective gloves to prevent contact with this substance.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

<u>HYGIENE</u>: Use good personal hygiene practices, wash hands before eating,

drinking, smoking or using toilet facilities.

<u>EYE/FACE PROTECTION</u>: Use safety eyewear with splash-guards or face shield.

Contact lenses should not be worn.

Emergency shower and eyewash should be easily accessible to the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

Maleic Anhydride 108-31-6	
Appearance> Cr	
Color> WI	hite
Odor> Irr	ritating acrid odor
Odor Threshold> No	o data available
pH> No	o data available
Molecular Weight> 98	3.06amu
Melting/Freezing Point> 51	I - 56°C (124 - 133°F)
Boiling Range> 20	00°C (392°F)
Specific Gravity> 1.	48 @20°C (68°F)
Vapor Pressure> 0.	2 mmHg@22°C (72°F)
Vapor Density (air=1)> 3.	
Water Solubility> 16	6.3g/100g water@77F (25C)
Partition Coefficient n-Octanol/Water-> lo	g Pow: -2.61 at 20 °C (68°F)
Evaporation Rate (Butyl Acetate=1)> No	o data available
Flash Point> 10)2°C (216°F) - closed cup
Upper Flammability Limit> 7.	.1% (V)
Lower Flammability Limit> 1	.4% (V)
Auto-Ignition Temperature> 47	77°C (891°F)
Decomposition Temperature> N	o data available
Viscosity> N	lo data available
Explosive Properties> N	o data available

Oxidizing Properties-----> No data available

9.2 Other Information: No data Available

10. STABILITY AND REACTIVITY INFORMATION

10.1 REACTIVITY: No data available.

10.2 CHEMICAL STABILITY: Unstable () Stable (X)

10.3 POSSIBILITY OF HAZARDOUS REACTIONS: No data available

<u>HAZARDOUS POLYMERIZATION</u>: May occur () Will not occur (X)

- 10.4 <u>CONDITIONS TO AVOID</u>: Heat, Sparks, Pilot Lights, Static Electricity, and Open Flame. Molten product should stored under 158°F (70°C)
- 10.5 <u>INCOMPATIBLE MATERIALS:</u> Alkali metals, alkaline earth metals, amines. Reacts violently with bases. Contact with strong oxidizers may cause fires and explosions.
- 10.6 <u>HAZARDOUS DECOMPOSITION PRODUCTS</u>: Carbon Monoxide, and other decomposition products where combustion is not complete. Slowly reacts with water to form maleic acid. When dissolving in water it is a strong acid.

11. <u>TOXICOLOGICAL INFORMATION</u>

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

Routes of Entry: Inhalation--> x Skin--> x Ingestion--> x Eye--> x

ACUTE HEALTH EFFECTS:

Effects of overexposure:

Eye> Corrosive; Dust or vapor causes burns or irritation of the eyes with swelling. Sensitivity to light and double vision may occur.

Skin> Corrosive; May not cause immediate burning of the skin, but prolonged contact with moist skin may cause reddening and blistering or burns.

Inhalation> Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Inhalation of vapor, fume, or dust may cause irritation of the nose and throat. Coughing, sneezing and burning of the

throat may be experienced. May cause allergic respiratory reactions.

Ingestion> Corrosive, Toxic; Swallowing can cause sore throat, abdominal pain and vomiting. May cause burns to the digestive tract.

Chronic: Exposure by inhalation or skin contact can cause allergic sensitization.

Medical Conditions Aggravated by Exposure> Persons with pre-existing Skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

ACUTE TOXICITY:

The effects of overexposure shown under Acute Health Effects are based on acute toxicity profiles. Typical values are:

Ingredient	Oral LD50 (Rat)	Skin LD50(Rabbit) Inhalation LC50		
Maleic anhydride	 1090mg/kg (OECD Test 401)	 2620mg.kg 	>4.35mg/L/1 h	

SKIN CORROSION/IRRITATION: Skin - Rabbit Result: Causes burns. - 4 h

SERIOUS EYE DAMAGE/EYE IRRITATION: Eyes - Rabbit Result: Corrosive

RESPIRATORY OR SKIN SENSITIZATION: Result: May cause sensitization by inhalation.

Buehler Test – Guinea pig

Result: May cause sensitization by skin contact. (OECD Test Guideline 406)

MUTAGENIC EFFECTS: Ames test Salmonella typhimurium Result: negative (OECD Test Guideline 475). Rat - male and female Result: negative

CARCINOGEN STATUS: Carcinogenicity - Rat - Subcutaneous

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Tumorigenic: Tumors at site or application.

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.

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.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

REPRODUCTIVE TOXICITY: Rat – Oral: Effects on Fertility: Female fertility index (e.g., # females pregnant per # sperm positive females; # females pregnant per# females mated). Effects on Fertility: Male fertility index (e.g., # males impregnating females per # males exposed to

fertile non-pregnant females).

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Specific target organ toxicity (STOT-SE) - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity (STOT-RE) - repeated exposure (Globally Harmonized System): Inhalation - Causes damage to organs through prolonged

or repeated exposure. - Respiratory system

ASPIRATION HAZARD: No data available

11.2 ADDITIONAL INFORMATION: Cough, Shortness of breath, Headache,

Nausea, Vomiting. RTECS: ON3675000

12. **ECOLOGICAL INFORMATION**

DANGEROUS TO AQUATIC LIFE IN HIGH CONCENTRATIONS

May be dangerous if it enters water intakes.

Notify local health and pollution control officials.

Notify operators of nearby water intakes

12.1 AQUATIC TOXICITY:

Toxicity to fish:

LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h static test

LC50 - Gambusia affinis (Mosquito fish) - 230 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 - Daphnia magna (Water flea) - 333 mg/l - 48 h static test

Toxicity to algae:

EC50 Selenastrum capricornutum (green algae) - > 150 mg/l - 72 h growth inhibition (OECD Test Guideline 201)

Toxicity to bacteria:

EC10 - Pseudomonas putida - 44.6 mg/l - 18 h (DIN 38 412 Part 8)

12.2 <u>PERSISTANCE AND DEGRADABILITY:</u> Biotic/Aerobic - Exposure time 28 d Result: 73 - 81 % - Readily biodegradable.

Biological Oxygen Demand (BOD): No data available

Bio-concentration Factor (BCF): <100

12.3 BIOACCUMULATIVE POTENTIAL: Octanol/Water Partition Coefficient:

log Pow: -2.61

This material is not expected to significantly bioaccumulate.

12.4 MOBILITY IN SOIL: No data available.

12.5 RESULTS OF PBT AND vPvB:

PBT assessment results: This substance is not classified as PBT or vPvB.

12.6 OTHER ADVERSE EFFECTS: Harmful to aquatic life

13. <u>DISPOSAL CONSIDERATIONS</u>

13.1 <u>WASTE TREATMENT METHODS:</u> Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly it is the responsibility of the user to determine the proper storage, transportation, treatment, and or disposal methodologies for spent materials and residues at time of disposition. Dispose in accordance with all applicable disposal regulations.

CONTAMINATED PACKAGING: Dispose of as unused product.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

RCRA: The unused product is a RCRA hazardous waste if discarded. The RCRA ID number is: U147.

If the waste is a spent solvent, the appropriate spent solvent code should be used.

DISPOSAL MUST BE IN ACCORDANCE WITH STANDARDS APPLICABLE TO GENERATORS OF HAZARDOUS WASTE, 48 CFR 262

14. TRANSPORT INFORMATION

Land Transport (DOT)
14.1 USDOT ID Number-----> UN2215

14.2	USDOT Shipping Name> Maleic Anhydride
14.3	USDOT Hazard Classification> 8 (Corrosive)
	USDOT Label Codes> 8
14.4	USDOT Package Code> III
	Marine Pollutant> No
14.6	Special precautions for user> None
	Emergency Response Guide> 156
	Reportable quantity> 5000lbs.
Sea	Transport (IMDG)
14.1	ID Number> UN2215
14.2	Proper shipping name> MALEIC ANHYDRIDE
14.3	Hazard Classification> 8 (Corrosive)
	Label Codes> 8
14.4	Package Code> III
14.5	Marine Pollutant> No
14.6	Special precautions for user> None
	EMS-Number> F-A, S-B
Air T	ransport (IATA)
14.1	ID Number> UN2215
14.2	Proper shipping name> Maleic anhydride
14.3	Hazard Classification> 8 (Corrosive)
	Label Codes> 8
14.4	Package Code> III
	Environmental hazard> None
14.6	Special precautions for user> None

15. **REGULATORY INFORMATION**

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

SARA TITLE III (Superfund Amendment and Reauthorization Act)

SECTION 302 AND 304: Extremely Hazardous Substance List (40 CFR 355) - Not Listed

SECTION 313: Toxic Chemicals Listing (40 CFR 372.65) - Listed Maleic Anhydride CAS 108-31-6

SECTION 311/312: Hazard Categorization (40 CFR 370) - Acute Health Hazard

<u>CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)</u>

SECTION 102(A) Hazardous Substances (40 CFR 302.4) - Listed Maleic Anhydride CAS 108-31-6 Reportable Quantity – 5000lbs. SECTION 101(14) Reportable Quantity: 5000lbs.

Massachusetts Right to Know Components Maleic anhydride CAS-No.108-31-6

Pennsylvania Right to Know Components Maleic anhydride CAS-No.108-31-6

New Jersey Right to Know Components Maleic anhydride CAS-No.108-31-6

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA (Toxic Substance Control Act)

Maleic anhydride CAS-No.108-31-6 is listed on the TSCA Inventory.

International Inventories:

Country or Region	Inventory Name On inventory ye	es/no
<u>Australia</u>	Australian Inventory of Chemical Substances (AICS)	Yes
<u>Canada</u>	Domestic Substances List (DSL)	Yes
<u>Canada</u>	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
<u>Europe</u>	European Inventory of Existing Commercial Chemicals	Yes
	Substances (EINECS)	
<u>Europe</u>	European List of Notified Chemical Substances (ELINCS)	No
<u>Japan</u>	Inventory of Existing and New Chemical Substances (ENCS)	Yes
<u>Japan</u>	Industrial Safety & Health Law Inventory (ISHL)	Yes
<u>Korea</u>	Existing Chemicals List (ECL)	Yes
<u>Mexico</u>	National Inventory of Chemical Substances (INSQ)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
	(PICCS)	
<u>Switzerland</u>	Inventory of Notified New Substances (CHINV)	Yes
<u>Taiwan</u>	National Existing Chemical Inventory (NECI)	Yes
United States &	Toxic Substances Control Act Inventory	Yes
Puerto Rico		

15.2 CHEMICAL SAFETY ASSESSMENT: A chemical safety assessment has been carried out for this substance.

16. OTHER INFORMATION:

HMIS (Hazardous Materials Identification System)

Hazard Rating:

4-Extreme

3-High

2-Moderate

1-Slight

0-Insignificant

NFPA RATINGS (SCALE 0-4): Health=3 Fire=0 Reactivity=1

HMIS RATINGS (SCALE 0-4): Health=3 Fire=0 Reactivity=1 PPE=J

Hazard statement(s) from Section 2 and 3:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H372 Causes damage to organs through prolonged or repeated use.

H402 Harmful to aquatic life.

Date of preparation-----> July 01, 1994

Revision Number----> 1.5

Revision Content-----> General update all sections

Revision Date-----> October 8, 2018 Prepared by-----> T.G. Fenstermaker

Acronyms:

ACGIH - American Conference of Governmental Industrial Hygenists

AIHA - American Industrial Hygiene Association ANSI - American Nation Standards Institute

API - American Petroleum Institute

CERCLA - Comprehensive Emergency Response, Compensation, and Liability Act

DOT - U.S. Department of Transportation

EC-50 - Effective Concentration

EPA - U.S. Environmental Protection Agency
 HMIS - Hazardous Materials Information System
 IARC - International Agency For Research On Cancer

LD-50 - Lethal Dose

MAK - Germany Maximum Concentration Values
MSHA - Mine Safety and Health Administration
NFPA - National Fire Protection Association

NIOSH - National Institute of Occupational Safety and Health

NOIC - Notice of Intended Change (Proposed change to ACGIH TLV)

NTP - National Toxicology Program
OPA - Oil Pollution Act of 1990

OSHA - U.S. Occupational Safety & Health Administration

PEL - Permissible Exposure Limit (OSHA)
RCRA - Resource Conservation and Recovery Act
REL - Recommended Exposure Limit (NIOSH)

SARA - Superfund Amendments and Reauthorization Act of 1986 Title III

SCBA - Self-Contained Breathing Apparatus

STEL - Short-Term Exposure Limit (generally 15 minutes)

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act TWA - Time Weighted Average (8hr.)

WHMIS - Canadian Workplace Hazardous Materials Information System

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