### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 03/13/2023 Version: 1.0

**SECTION 1: Identification** Identification 1.1. Product name : EP1350 B Recommended use and restrictions on use 1.2. Recommended use : Epoxy hardener Restrictions on use : Product for industrial use only 1.3. Supplier ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 - United States T 1-877-259-1669 msds@resinlab.com - www.resinlab.com 1.4. **Emergency telephone number** Emergency number : CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International) SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture **GHS US classification** Acute toxicity (inhalation:dust,mist) Category 4 H332 Harmful if inhaled Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 1 H318 Causes serious eye damage Respiratory sensitization, Category 1 H334 May cause an allergy or asthma symptoms or breathing difficulties if inhaled Skin sensitization, Category 1 H317 May cause an allergic skin reaction Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)

AN ELLSWORTH ADHESIVES

Signal word (GHS US)	:	Danger
Hazard statements (GHS US)	:	H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H332 - Harmful if inhaled H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements (GHS US)	:	<ul> <li>P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P272 - Contaminated work clothing must not be allowed out of the workplace.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P284 - [In case of inadequate ventilation] wear respiratory protection.</li> <li>P302+P352 - If on skin: Wash with plenty of water.</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a poison center or doctor.</li> <li>P312 - Call a poison center or doctor if you feel unwell.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> <li>P342+P341 - If experiencing respiratory symptoms: Call a poison center or doctor.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.</li> </ul>

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ccording to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regulations		
2.3. Other hazards which do not result in	classification		
No additional information available			
2.4. Unknown acute toxicity (GHS US)			
Not applicable			
SECTION 3: Composition/Information	n on ingredients		
3.1. Substances			
Not applicable			
3.2. Mixtures			
Name		Product identifier	%
1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydr	ide	(CAS-No.) 25134-21-8	75 – 90
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride		(CAS-No.) 826-62-0	10 – 30
Full text of hazard classes and H-statements : se	e section 16		
SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures general	: Call a poison center/doctor/physician if	you feel unwell.	
First-aid measures after inhalation	: Remove person to fresh air and keep c symptoms: Call a poison center or a do		ing respiratory
First-aid measures after skin contact	: Wash skin with plenty of water. Take of Get medical advice/attention.	f contaminated clothing. If skin irritat	on or rash occurs:
First-aid measures after eye contact	: Immediately rinse with plenty of water ( present and easy to do. Continue rinsin		tact lenses, if
First-aid measures after ingestion	: If the person is fully conscious, make h anything to drink. Rinse mouth out with attention.		
4.2. Most important symptoms and effec	ts (acute and delayed)		
Symptoms/effects after inhalation	: May cause an allergy or asthma sympton	=	l.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin rea	action.	
Symptoms/effects after eye contact	: Serious damage to eyes.		
4.3. Immediate medical attention and spe	ecial treatment, if necessary		
Treat symptomatically.			
SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguish	ing media		
Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide.		
5.2. Specific hazards arising from the ch	emical		
Reactivity in case of fire	: Material reacts with water or steam to p	roduce heat and free acid.	
Hazardous decomposition products in case of fire	: Toxic fumes may be released,Aldehyde	es,Acids,Carbon oxides (CO, CO2)	
5.3. Special protective equipment and pr	ecautions for fire-fighters		
Protection during firefighting	: Do not attempt to take action without su apparatus. Complete protective clothing		ntained breathing
SECTION 6: Accidental release meas	ures		
6.1. Personal precautions, protective equ			
6.1.1. For non-emergency personnel			
Emergency procedures	: Ventilate spillage area. Avoid breathing skin and eyes.	dust/fume/gas/mist/vapors/spray. A	void contact with
6.1.2. For emergency responders			
Protective equipment	: Do not attempt to take action without su refer to section 8: "Exposure controls/p		her information
6.2. Environmental precautions			
Avoid release to the environment.			
02/12/2022	ENI (English LIC)		

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.3. Methods and material for containme	nt and cleaning up
For containment	: Cover spill with non combustible material, e.g.: sand, earth, vermiculite.
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	<ul> <li>Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.</li> </ul>
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	
Storage conditions	: Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/perso	onal protection
8.1. Control parameters	
1,2,3,6-tetrahydromethyl-3,6-methanophtha	alicanhydride (25134-21-8)
Not applicable	
1,2,3,6-tetrahydro-3,6-methanophthalic and	ıydride (826-62-0)
Not applicable	
8.2. Appropriate engineering controls	
Appropriate engineering controls	<ul> <li>Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.</li> </ul>
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measures/Pers	onal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses with side shields	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of inadequate ventilation, wear respira	itory protection.
Personal protective equipment symbol(s):	
SECTION 9: Physical and chemical p	roperties
9.1. Information on basic physical and cl	nemical properties

: Liquid : Brown

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Odor	: mild
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: 120 °C
Flash point	: 150 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.18 g/cm <sup>3</sup>
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
VOC content	No data available

### SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Material reacts with water or steam to produce heat and free acid. Polymerizes at 200 °C or higher.

### 10.4. Conditions to avoid

Avoid high temperatures. Water, humidity. Moisture. Incompatible materials.

### 10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agent. Water.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information	1
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.
EP1350 B	
LD50 oral rat	> 2100 mg/kg estimated
LD50 dermal rat	> 3300 mg/kg estimated
LC50 Inhalation - Rat	> 1.2 mg/l estimated(dusts/mists)
ATE US (dust, mist)	1.5 mg/l/4h
1,2,3,6-tetrahydromethyl-3,6-methanophthalic	anhydride (25134-21-8)
LD50 oral rat	1300 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	· · · · · · · · · · · · · · · · · · ·
1,2,3,6-tetrahydromethyl-3,6-methanop	hthalicanhydride (25134-21-8)
LD50 dermal rat	4920 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rat, Male / female, Experimental value, Dermal)
LC50 Inhalation - Rat	< 0.75 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
ATE US (oral)	1300 mg/kg body weight
ATE US (dermal)	4920 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	3 mg/l/4h
ATE US (dust, mist)	0.5 mg/l/4h
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
1,2,3,6-tetrahydromethyl-3,6-methanop	hthalicanhydride (25134-21-8)
NOAEL (oral,rat,90 days)	20 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after eye contact	

### SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)		
LC50 - Fish [1]	359 mg/l (OECD 203: Fish, Acute Toxicity Test, 48 h, Oryzias latipes, Semi-static system, Fresh water, Experimental value)	
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)	
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)	
LOEC (chronic)	40 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride (826-62-0)		
LC50 - Fish [1]	172.259 mg/l Source: EPISUITE	
EC50 - Crustacea [1]	94.974 mg/l Source: EPISUITE	

### 12.2. Persistence and degradability

1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)	
Persistence and degradability	Not readily biodegradable in water.
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride (826-62-0)	
Persistence and degradability	Biodegradability in water: no data available.

### 12.3. Bioaccumulative potential

1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)	
BCF - Fish [1]	0.4 – 5.5 (OECD 305: Bioconcentration: Flow-Through Fish Test, 6 week(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)		
Partition coefficient n-octanol/water (Log Pow)	-4.03 (Calculated, 20 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride (826-62-0)		
Partition coefficient n-octanol/water (Log Pow)	1.85 Source: EPISUITE, estimate	
Bioaccumulative potential	No bioaccumulation data available.	

### 12.4. Mobility in soil

1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, QSAR)
Ecology - soil	No straightforward conclusion can be drawn based upon the available numerical values.
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride (826-62-0)	
Mobility in soil	30.89

#### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal conside	rations
3.1. Disposal methods	. Disease of a state to be the second second second by the test of a state of the second se
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport inform	ation
Department of Transportation (DOT)	
In accordance with DOT	
Not regulated	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not regulated	
Air transport	
Not regulated	
<b>SECTION 15: Regulatory inforr</b>	mation
5.1. US Federal regulations	
1,2,3,6-tetrahydromethyl-3,6-methal	nophthalicanhydride (25134-21-8)
Listed on the United States TSCA (To	xic Substances Control Act) inventory
1,2,3,6-tetrahydro-3,6-methanophth	alic anhydride (826-62-0)
Listed on the United States TSCA (To	xic Substances Control Act) inventory
5.2. International regulations	
ANADA	

1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)

Listed on the Canadian DSL (Domestic Substances List)

1,2,3,6-tetrahydro-3,6-methanophthalic anhydride (826-62-0)

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

Contains no REACH candidate substance

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride (826-62-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
National regulations
1,2,3,6-tetrahydromethyl-3,6-methanophthalicanhydride (25134-21-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)
1,2,3,6-tetrahydro-3,6-methanophthalic anhydride (826-62-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals)
15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### **SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### Full text of H-phrases:

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled

#### SDS US - ResinLab

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.